

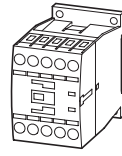
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“Motor Starters” supplementary catalogue available from February 2005



DILM contactors
3-pole



DIL		M7	M9	M12
Basic units	Page	a 5/16	a 5/16	a 5/16
Complete units	Page	a 5/20	a 5/20	a 5/20
Rated operational voltage		kW	kW	kW

AC-3 Rated power of three-phase motor 50 – 60 Hz			
220 V – 230 V	2.2	2.5	3.5
380 V – 400 V	3	4	5.5
440 V	4.5	5.5	7.5
500 V	3.5	4.5	7
660 V/690 V	3.5	4.5	6.5
1000 V	–	–	–

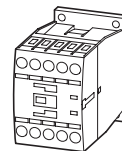
AC-4 Rated power of three-phase motor 50 – 60 Hz			
220 V – 230 V	1	1.5	2
380 V – 400 V	2.2	2.5	3
440 V	2.4	3	3.6
500 V	2.5	2.8	3.5
660 V/690 V	2.9	3.6	4.4
1000 V	–	–	–

AC-1 Rated power with resistive load, 40 °C			
220 V – 230 V	8	8	8
380 V – 400 V	14	14	14
440 V	16	16	16
500 V	19	19	19
660 V/690 V	25	25	25
1000 V	–	–	–

Conventional thermal free air current $I_{th} = I_e$ open at 60 °C			
up to 690 V	22	22	22
1000 V	–	–	–

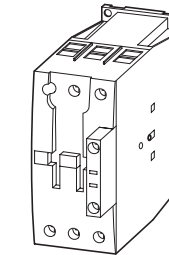
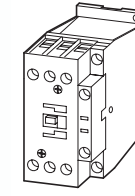
Availability

DILMP contactor
4-pole



DIL		MP20
Rated operational voltage	Page	a 5/16

AC-1 conventional free air thermal current $I_{th} = I_e$ open	
up to 690 V	22



M17	M25	M32	M40	M50	M65
a 5/16	a 5/16	a 5/16	a 5/16	a 5/16	a 5/16
a 5/20	a 5/20	a 5/20	a 5/20	a 5/20	a 5/20
kW	kW	kW	kW	kW	kW

5	7.5	10	12.5	15.5	20
7.5	11	15	18.5	22	30
10.5	15.5	20	25	32	41
12	17.5	23	28	36	47
11	14	17	23	30	35
–	–	–	–	–	–

2.5	3.5	4	5	6	7
4.5	6	7	9	10	12
5.5	7	8	10	12	14
6	8	9	11	13	16
6.5	8.5	10	12	14	17
–	–	–	–	–	–

15	17	17	22	26	32
26	29	29	39	46	55
30	34	34	45	53	64
34	38	38	51	60	73
45	51	51	68	80	97
–	–	–	–	–	–

A	A	A	A	A	A
40	45	45	60	70	85
–	–	–	–	–	–

from December 2004

DILM contactor
3-pole

DIL	EEM	EM	00M	00AM	0M	0AM	1M	1AM	2M	2AM	3M80	3AM85	
Basic units	a	a	a	a	a	a	a	a	a	a	a	a	
Page	5/12	5/12	5/24	5/24	5/24	5/24	5/24	5/24	5/24	5/24	5/24	5/24	
Complete units	-	-	a	a	a	a	a	a	a	a	a	a	
Rated operational voltage	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	

AC-3
Rated power of three-phase motor 50 – 60 Hz

220 V – 230 V	1.5	2.2	2.2	3	4	5.5	7.5	11	15	18.5	22	25
380 V – 400 V	3	4	4	5.5	7.5	11	15	18.5	22	30	37	45
440 V	3.3	4.6	4.6	6.4	8.4	13	17	20	25	35	44	52
500 V	3	4	5.5	7.5	11	15	18.5	22	30	37	45	55
660 V – 690 V	3	4	5.5	7.5	11	15	18.5	22	30	37	55	75
1000 V	-	-	-	-	-	-	-	-	-	37	45	-

AC-4
Rated power of three-phase motor 50 – 60 Hz

220 V – 230 V	1.1	1.5	1.5	2.2	3	4	5.5	7.5	11	15	18.5	22
380 V – 400 V	2.2	3	3	4	5.5	7.5	11	15	18.5	22	30	37
440 V	2.4	3.3	3.3	4.4	6.2	8.4	12.5	17	20.3	25.3	35	43
500 V	2.2	3	4	5.5	7.5	11	15	18.5	22	30	37	45
660 V – 690 V	2.2	3	4	5.5	7.5	11	15	18.5	22	30	45	45
1000 V	-	-	-	-	-	-	-	-	-	30	37	-

AC-1
Rated power with resistive load, 40 °C

220 V – 230 V	8	8	8	8	13	13	21	21	35	35	41	41
380 V – 400 V	13	13	13	13	23	23	37	37	61	61	71	71
440 V	15	15	15	15	27	27	43	43	70	70	82	82
500 V	18	18	18	18	31	31	49	49	80	80	93	93
660 V – 690 V	23	23	23	23	41	41	65	65	106	106	123	123
1000 V	-	-	-	-	-	-	-	-	-	187	187	-

Conventional thermal free air current $I_{th} = I_e$ open at 40 °C

up to 690 V	22	22	22	22	38	38	60	60	98	98	114	114
1000 V	-	-	-	-	-	-	-	-	-	114	114	-

DILP contactor
4-pole

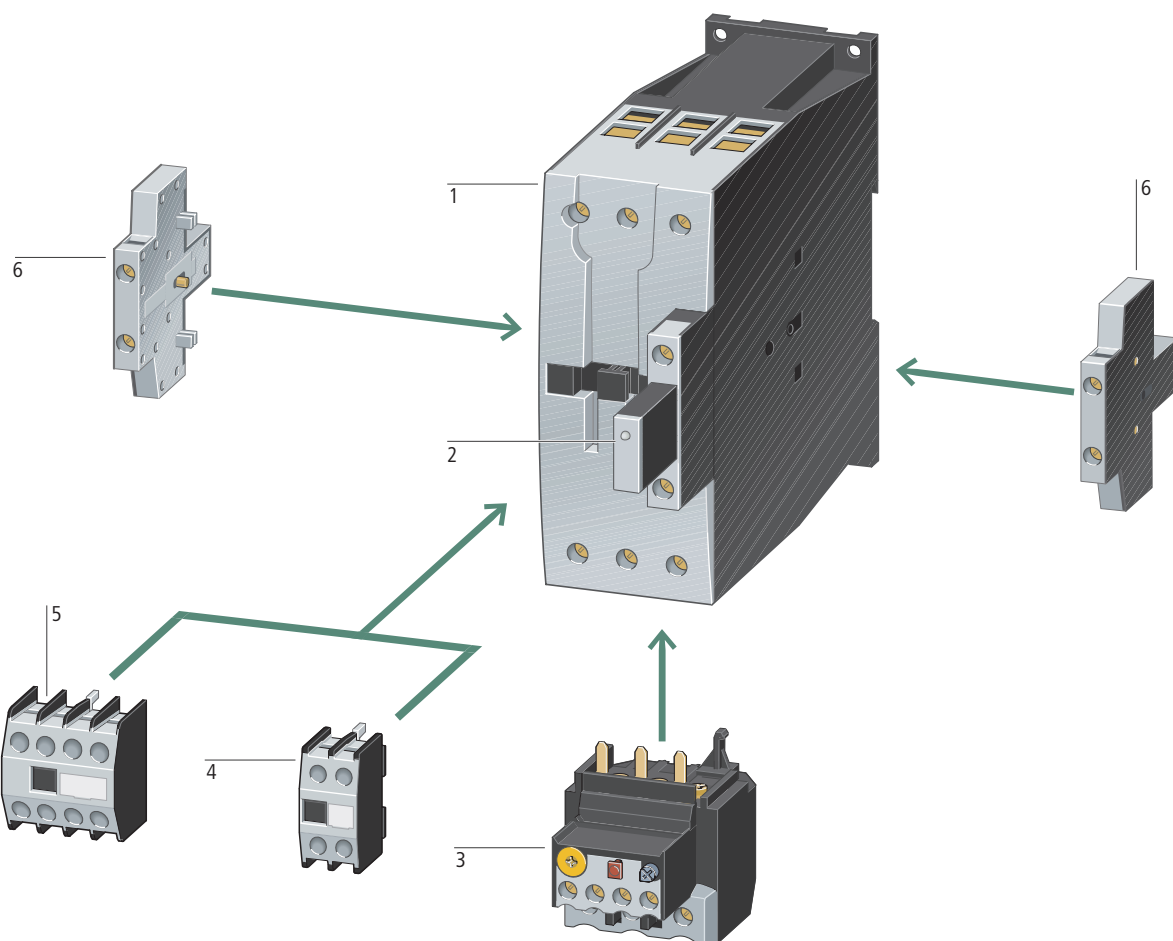
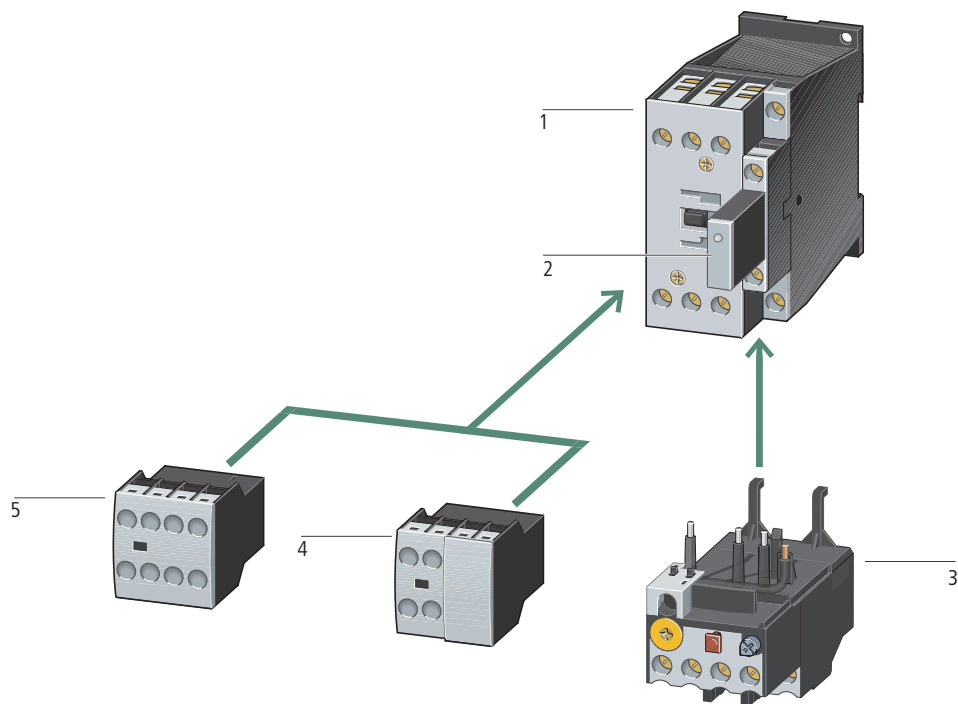
DIL	P160	P250	P315
Rated operational voltage	A	A	A
conventional thermal free air current $I_{th} = I_e$ open	A	A	A
up to 690 V	160	250	315
1000 V	160	250	315

4M115	4AM145	M185	M225	M250	M300	M400	M500	M580	M650	M750	M820	M1000	H1400	H2000
a	a	-	-	-	-	-	-	-	-	-	-	-	-	-
5/24	5/24	-	-	-	-	-	-	-	-	-	-	-	-	-
a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
5/28	5/28	5/30	5/30	5/30	5/30	5/30	5/30	5/30	5/30	5/30	5/30	5/30	5/30	5/30
kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW

37	45	55	70	75	90	125	155	185	205	240	260	315	-	-
55	75	90	110	132	160	200	250	315	355	400	450	560	-	-
64	88	115	142	157	190	255	345	370	420	480	525	650	-	-
75	90	132	160	180	215	290	360	420	470	550	600	730	-	-
90	110	175	215	240	286	344	344	560	630	720	750	1000	-	-
55	65	108	108	108	132	132	132	600	600	800	800	1000	-	-
26	30	41	51	62	75	92	112	143	161	181	209	260	-	-
45	55	75	90	110	132	160	200	250	280	315	355	450	-	-
52	65	85	102	125	140	186	229	290	326	367	418	520	-	-
55	75	96	116	143	172	214	260	330	370	417	474	590	-	-
55	75	127	155	189	229	283	344	440	494	556	633	780	-	-
45	55	108	108	108	132	132	132	509	509	678	678	1000	-	-

65	65	121	139	155	177	221	310	354	376	398	443	443	620	886
113	113	210	241	268	306	382	535	612	650	689	766	766	1071	1531
131	131	243	279	310	354	443	620	709	753	797	886	886	1240	1773
149	149	277	317	352	403	503	705	806	856	906	1007	1007	1410	2015
197	197	365	419	465	532	664	930	1064	1130	1196	1330	1330	1861	2660
299	299	554	635	705	806	1007	1410	1612	1712	1813	2015	2015	2417	3223
A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
182	182	337	386	429	490	612	857	980	1041	1102	1225	1225	1714	2450
182	182	337	386	429	490	612	857	980	1041	1102	1225	1225	1469	1959

P500	P630	P800
A	A	A
500	630	800
500	630	800



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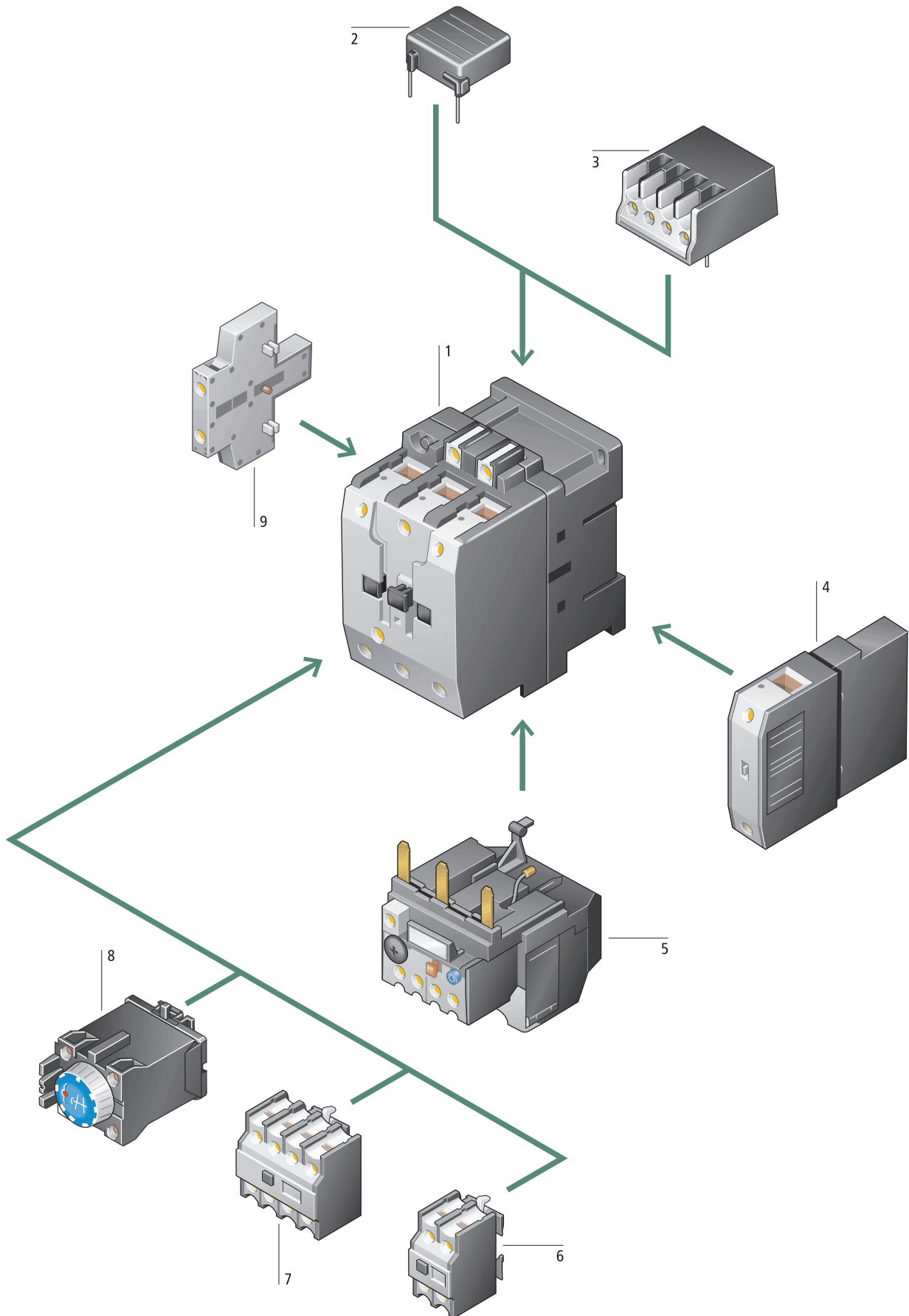
Contactor up to 30 kW (AC-3/400 V)	1
Magnet systems:	
AC: 12 – 600 V, 50, 60, 50/60 Hz 0.8 – 1.1 × U_c	
DC: 12 – 250 V DILM7 – DILM12: 0.8 – 1.1 × U_c DILM17 – DILM65: 0.7 – 1.2 × U_c at 24 V: 0.7 – 1.3 × U_c without additional auxiliary contacts fitted and ambient temperature +40 °C	
Coils for special voltages	
“Safe isolation” to IEC 536 between coil and contacts	
a 5/17	

Suppressors	2
RC suppressor	
Varistor suppressor	
a 5/52	

Overload relays	3
Can be mounted directly	
Separate mounting, possible	
Protection of EEx e motors	
EU prototype test certificate number	
a 6/5	
Auxiliary contact modules	4
2-pole, plug-in type	
a 5/22	

Auxiliary contact modules	5
4-pole, plug-in type	
Overlapping contacts	
a 5/22	
Auxiliary contact modules	6
2-pole, side mounting	
a 5/23	

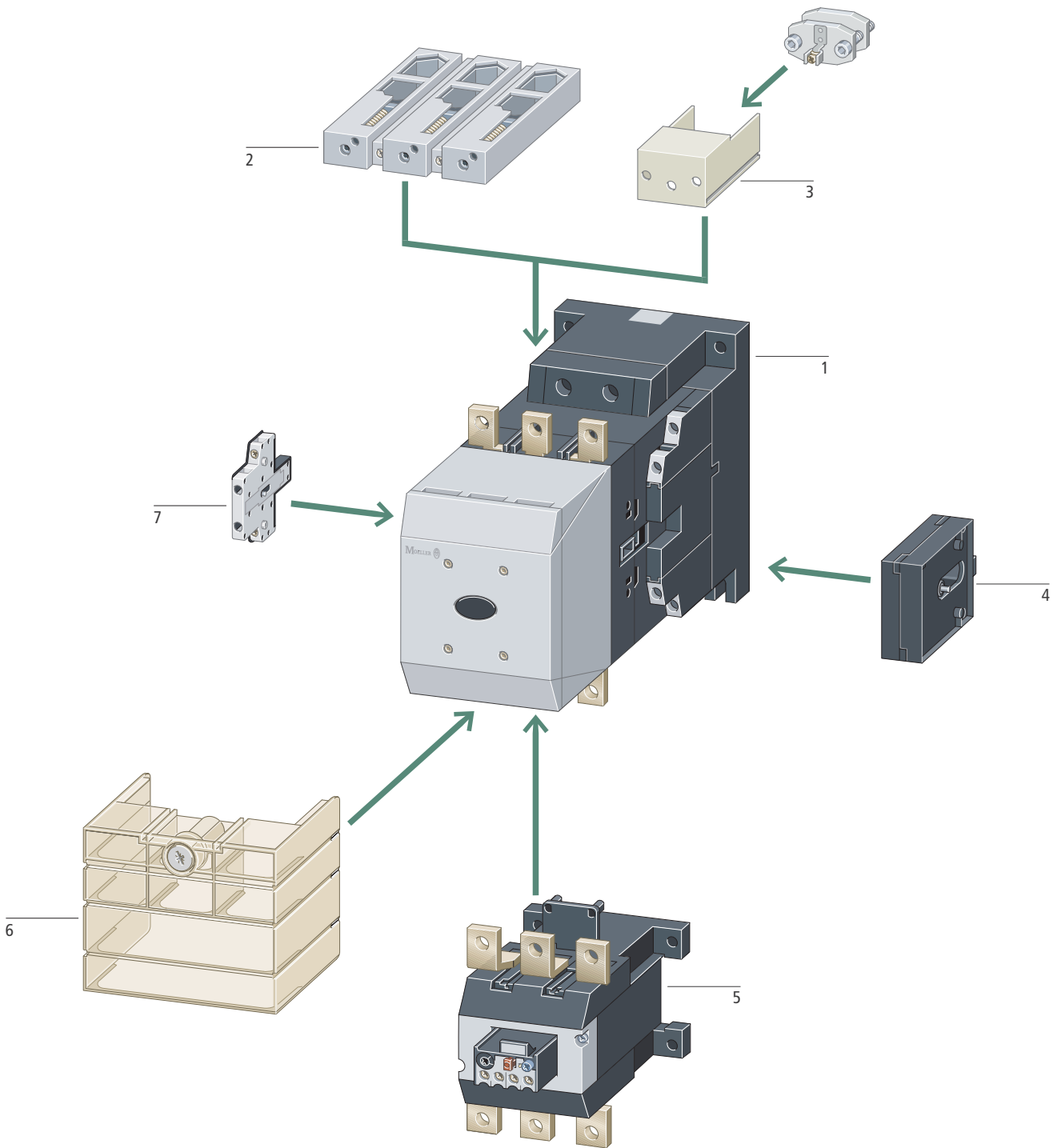




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<p>Contactor up to 75 kW (AC-3/400 V) 1</p> <hr/> <p>Magnet systems: AC: 12 – 600 V, 50, 60, 50/60 Hz $0.8 - 1.1 \times U_c$</p> <hr/> <p>DC: 12 – 250 V $0.85 - 1.1 \times U_c$</p> <hr/> <p>Coils for special voltages "Safe isolation" to IEC 536 between coil and contacts</p> <hr/> <p>a 5/25</p>	<p>4th pole 4</p> <hr/> <p>Contact for AC-1 load can be fitted to contactors up to DIL2AM</p> <hr/> <p>a 5/58</p> <hr/> <p>Overload relays 5</p> <hr/> <p>Can be mounted directly Separate mounting, possible Protection of EEx e motors PTB certificate</p> <hr/> <p>a 6/9</p>	<p>Auxiliary contact modules 7</p> <hr/> <p>4-pole, plug-in type Overlapping contacts</p> <hr/> <p>a 5/34</p> <hr/> <p>Pneumatic timer modules 8</p> <hr/> <p>On-delayed and off-delayed, plug-in type With or without TÜV approval (TÜV = German technical supervisory authority)</p> <hr/> <p>a 5/58</p>
<p>Suppressors 2</p> <hr/> <p>RC suppressor Varistor suppressor Free-wheel diode suppressor</p> <hr/> <p>a 5/54</p>	<p>Auxiliary contact modules 6</p> <hr/> <p>2-pole, plug-in type</p> <hr/> <p>a 5/34</p>	<p>Auxiliary contact modules 9</p> <hr/> <p>1 or 2-pole, side mounting</p> <hr/> <p>a 5/35</p>
<p>Amplifier modules 3</p> <hr/> <p>Plug-in type With and without integrated suppressor Separate mounting</p> <hr/> <p>a 5/59</p>		





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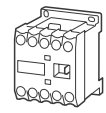
<p>Contactors for 90 – 560 kW (AC-3/400 V) Comfort series: 1</p> <p>Multi-voltage coils: 24 – 48 V DC 48 – 110 V AC/DC 110 – 250 V AC/DC 250 – 500 V AC 0.7 – 1.15 × U_c</p> <p>Actuation options: • Directly • From the PLC • With low-consumption contact</p> <p>Minimised pick-up and sealing power</p> <hr/> <p>a 5/31</p>	<p>Flat strip conductor terminals 3</p> <p>1 or 2 strips per phase Control circuit terminal Cover for finger proofing</p> <hr/> <p>a 5/57</p>	<p>Terminal cover 6</p> <p>Finger proof</p> <hr/> <p>a 5/57</p>
<p>Standard series 90 – 250 kW 1</p> <p>Control voltages: 110 – 120 V 50/60 Hz 220 – 240 V 50/60 Hz</p> <p>Conventional operation</p> <hr/> <p>a 5/33</p>	<p>Mechanical interlock 4</p> <hr/> <p>a 5/56</p>	<p>Auxiliary contact modules 7</p> <p>2-pole, side mounting</p> <hr/> <p>a 5/35</p>
<p>Cable terminal block 2</p> <p>1 or 2 conductors per phase Round and flat conductor connectable Finger proof</p> <hr/> <p>a 5/57</p>	<p>Overload relays 5</p> <p>Can be mounted directly Separate mounting, possible Protection of EEx e motors PTB certificate</p> <hr/> <p>a 6/11</p>	



Rated operational current	Max. rating for three-phase motors 50 – 60 Hz						Conventional free air thermal current $I_{th} = I_e$ AC-1 at 50 °C		Contacts		Circuit symbol	Can be combined with auxiliary contact
	AC-3	AC-3			AC-4			Open	Enclosed	M = Make		
380 V 400 V	220 V 230 V	380 V 400 V	660 V 690 V	220 V 230 V	380 V 400 V	660 V 690 V	$I_{th} = I_e$	$I_{th} = I_e$				
I_e	P	P	P	P	P	P	A	A				
A	kW	kW	kW	kW	kW	kW						

Basic units

3-pole with auxiliary contacts

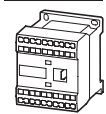


Terminal type	Rated current	Max. rating	AC-3	AC-4	Open	Enclosed	Contacts	Circuit symbol	Notes				
Screw terminals	6.6	1.5	3	3	1.1	2.2	2.2	20	16	1 M	–		...DILEM ...DILE
	6.6	1.5	3	3	1.1	2.2	2.2	20	16	–	1 B		...DILE
	9.0	2.2	4	4	1.5	3	3	20	16	1 M	–		...DILEM ...DILE
	9.0	2.2	4	4	1.5	3	3	20	16	–	1 B		...DILE

4-pole

Terminal type	Rated current	Max. rating	AC-3	AC-4	Open	Enclosed	Contacts	Circuit symbol	Notes				
Screw terminals	9.0	2.2	4	4	1.5	3	3	20	16	–	–		...DILEM ...DILE

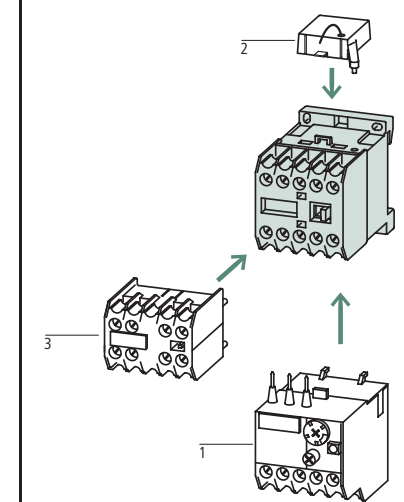
3-pole with auxiliary contacts



Terminal type	Rated current	Max. rating	AC-3	AC-4	Open	Enclosed	Contacts	Circuit symbol	Notes				
Spring-loaded terminals	6.6	1.5	3	3	1.1	2.2	2.2	20	16	1 M	–		...DILEM-C ...DILE-C
	6.6	1.5	3	3	1.1	2.2	2.2	20	16	–	1 B		...DILE-C
	9.0	2.2	4	4	1.5	3	3	20	16	1 M	–		...DILEM-C ...DILE-C
	9.0	2.2	4	4	1.5	3	3	20	16	–	1 B		...DILE-C

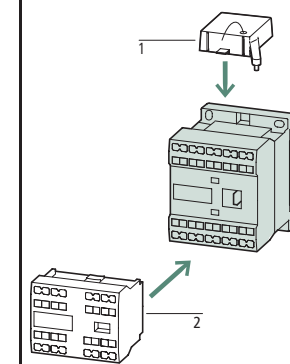
AC operation	Price	DC operation	Price	Std. pack	Notes
Type	See Price List	Type	See Price List		
Article no.		Article no.			
DILEEM-10(230V50HZ) 051608		DILEEM-10-G(24VDC) 051643		5 off	With DC operation: integrated diode-resistor combination, coil rating 2.6 W
DILEEM-01(230V50HZ) 051633		DILEEM-01-G(24VDC) 051650			
DILEEM-10(230V50HZ) 051786		DILEEM-10-G(24VDC) 010213			
DILEEM-01(230V50HZ) 051795		DILEEM-01-G(24VDC) 010343			
DILEM4(230V50HZ) 051804		DILEM4-G(24VDC) 012701			
DILEEM-10-C(230V50HZ) 230042		DILEEM-10-G-C(24VDC) 230052			
DILEEM-01-C(230V50HZ) 230135		DILEEM-01-G-C(24VDC) 230155			
DILEEM-10-C(230V50HZ) 230164		DILEEM-10-G-C(24VDC) 230165			
DILEEM-01-C(230V50HZ) 230166		DILEEM-01-G-C(24VDC) 230167			

With screw terminals:



Accessories	Page
1 Overload relay	a 6/9
2 Suppressor	a 5/54
3 Auxiliary contact modules	a 5/16
Enclosure <small>totally insulated</small>	a 5/94
Further actuating voltages	a 5/63
Accessories	a 5/54

With springloaded terminal:



Accessories	Page
1 Suppressor	a 5/54
2 Auxiliary contact modules	a 5/16
Enclosure <small>totally insulated</small>	a 5/94
Further actuating voltages	a 5/64
Accessories	a 5/54

Mini contactor relays with interlocked opposing contacts.

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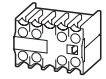
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Conventional free air thermal current
 $I_{th} = I_e$
AC-1
Open
 $I_{th} = I_e$
A

Contacts
M = Make B = Break

Contact sequence
Can be combined with contactor

Auxiliary contact modules



Terminals	Poles	Terminals	M	B	Contact sequence	Notes
Screw terminals	2-pole	10	-	2 B		DILE(E)M-10(-G)(...) DILEM-4(-G)(...)
	2-pole		1 M	1 B		
	4-pole		2 M	2 B		
	2-pole		-	2 B		DILE(E)M-10(-G)(...) DILE(E)M-01(-G)(...) DILEM-4(-G)(...)
			1 M	1 B		
			2 M	-		
			1 M	1 B		
	4-pole		-	4 B		
			1 M	3 B		
			2 M	2 B		
3 M		1 B				
4 M		-				
2 M		2 B				



Terminals	Poles	Terminals	M	B	Contact sequence	Notes
Springloaded terminals	2-pole	10	1 M	1 B		DILE(E)M-10-C(-G)(...)
	4-pole		2 M	2 B		
	2-pole		1 M	1 B		DILE(E)M-10-C(-G)(...) DILE(E)M-01-C(-G)(...)
			-	4 B		
			1 M	3 B		
			2 M	2 B		
	4-pole		3 M	1 B		
			4 M	-		
			2 M	2 B		

Type Article no. Price See Price List Std. pack Notes

02DILEM 010064	5 off	-	Auxiliary contact module contacts: ...DILEM to EN 50012 ...DILE to EN 50005 Contacts to EN 50012 should be given preference.
11DILEM 010080	-	Auxiliary contact modules with interlocked opposing contacts. Not in the case of early-make or late-break contacts	
22DILEM 010112	-		
02DILE 010240	-		
11DILE 010224	-		
20DILE 010208	-		
11DDILE 049824	1 early-make contact, 1 late-break contact		
04DILE 010256	-		
13DILE 002397	-		
22DILE 010288	-		
31DILE 048912	-		
40DILE 010304	-		
22DDILE 049823	1 early-make contact, 1 late-break contact		
11DILEM-C 230255	-		
22DILEM-C 230256	-		
11DILE-C 230257	-		
04DILE-C 230258	-		
13DILE-C 230259	-		
22DILE-C 230260	-		
31DILE-C 230262	-		
40DILE-C 230263	-		
22DDILE-C 230264	1 early-make contact, 1 late-break contact		

Contactors



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Rated operational current	Max. rating for three-phase motors 50 – 60 Hz						Conventional thermal current $I_{th} = I_e$ AC-1 at 60 °C	Auxiliary contacts	Contact sequence
	AC-3		AC-4		AC-4				
380 V 400 V	220 V 230 V	380 V 400 V	660 V 690 V	220 V 230 V	380 V 400 V	660 V 690 V	Open	M = make contact B = break	
I_e	P	P	P	P	P	P	$I_{th} = I_e$		
A	kW	kW	kW	kW	kW	kW	A		

Basic units

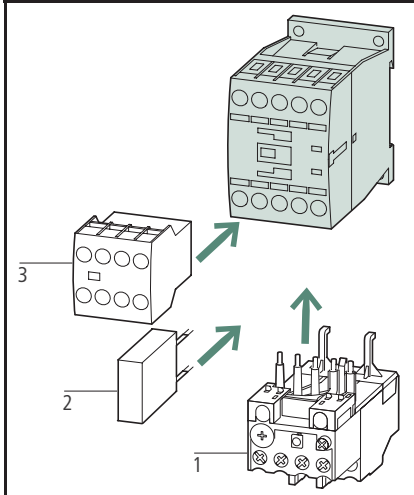
Screw terminals

Pole	Rated operational current	Max. rating for three-phase motors 50 – 60 Hz						Conventional thermal current $I_{th} = I_e$	Auxiliary contacts	Contact sequence
		AC-3		AC-4		AC-4				
4-pole	–	–	–	–	–	–	20	–	–	
	3-pole	7	2.2	3	3.5	1	2.2	2.9	20	1 M
		7	2.2	3	3.5	1	2.2	2.9	20	–
		9	2.5	4	4.5	1.5	2.5	3.6	20	1 M
		9	2.5	4	4.5	1.5	2.5	3.6	20	–
		12	3.5	5.5	6.5	2	3	4.4	20	1 M
		12	3.5	5.5	6.5	2	3	4.4	20	–
3-pole	18	5	7.5	11	2.5	4.5	6.5	35	1 M	
	18	5	7.5	11	2.5	4.5	6.5	35	–	
	25	7.5	11	14	3.5	6	8.5	40	1 M	
	25	7.5	11	14	3.5	6	8.5	40	–	
	32	10	15	17	4	7	10	40	1 M	
	32	10	15	17	4	7	10	40	–	
	3-pole	40	12.5	18.5	23	5	9	12	50	–
50		15.5	22	30	6	10	14	60	–	
65		20	30	35	7	12	17	72	–	

Notes

DC operated contactors have an integrated suppressor.
Positively driven contacts with DILM7 to DILM32 between integrated auxiliary contact and auxiliary contact module as well as within the auxiliary contact modules.
Positively driven contacts with DILM40 to DILM65 within the auxiliary contact module.
Mirror contact with DILM7-01 to DILM32-01 as well as in combination with auxiliary contact modules
Mirror contact with DILM40 to DILM65 in combination with auxiliary contact module
Combination of side mounted and front auxiliary contact modules up to 6 auxiliary contacts possible with DILM40 to DILM65.
Contact elements of the contactor to EN 50012.

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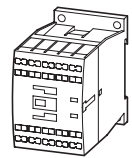
Can be combined with auxiliary contact	AC operation		DC operation		Std. pack	Notes															
	Type Article no.	Price See Price List	Type Article no.	Price See Price List																	
	DILM32-XHI.. DILA-XHI(V)..	DILMP20(230V50HZ) 276970	DILMP20(24VDC) 276985		1 off	<p>Availability of DILM(C)40 to 65: from December 2004</p>  <p>Accessories</p> <table border="0"> <tr> <td>1 Overload relay</td> <td>a</td> <td>6/5</td> </tr> <tr> <td>2 Suppressor</td> <td>a</td> <td>5/52</td> </tr> <tr> <td>3 Auxiliary contact modules</td> <td>a</td> <td>5/22</td> </tr> <tr> <td>Further actuating voltages</td> <td>a</td> <td>5/65</td> </tr> <tr> <td>Accessories</td> <td>a</td> <td>5/53</td> </tr> </table>	1 Overload relay	a	6/5	2 Suppressor	a	5/52	3 Auxiliary contact modules	a	5/22	Further actuating voltages	a	5/65	Accessories	a	5/53
1 Overload relay	a	6/5																			
2 Suppressor	a	5/52																			
3 Auxiliary contact modules	a	5/22																			
Further actuating voltages	a	5/65																			
Accessories	a	5/53																			
	DILM32-XHI.. DILA-XHI(V)..	DILM7-10(230V50HZ) 276550	DILM7-10(24VDC) 276565																		
	DILA-XHI(V)..	DILM7-01(230V50HZ) 276585	DILM7-01(24VDC) 276600																		
	DILM32-XHI.. DILA-XHI(V)..	DILM9-10(230V50HZ) 276690	DILM9-10(24VDC) 276705																		
	DILA-XHI(V)..	DILM9-01(230V50HZ) 276725	DILM9-01(24VDC) 276740																		
	DILM32-XHI.. DILA-XHI(V)..	DILM12-10(230V50HZ) 276830	DILM12-10(24VDC) 276845																		
	DILA-XHI(V)..	DILM12-01(230V50HZ) 276865	DILM12-01(24VDC) 276880																		
	DILM32-XHI.. DILA-XHI(V)..	DILM17-10(230V50HZ) 277004	DILM17-10(RDC24) 277018																		
	DILA-XHI(V)..	DILM17-01(230V50HZ) 277036	DILM17-01(RDC24) 277050																		
	DILM32-XHI.. DILA-XHI(V)..	DILM25-10(230V50HZ) 277132	DILM25-10(RDC24) 277146																		
	DILA-XHI(V)..	DILM25-01(230V50HZ) 277164	DILM25-01(RDC24) 277178																		
	DILM32-XHI.. DILA-XHI(V)..	DILM32-10(230V50HZ) 277260	DILM32-10(RDC24) 277274																		
	DILA-XHI(V)..	DILM32-01(230V50HZ) 277292	DILM32-01(RDC24) 277306																		
	DILM150-XHI(V).. DILM1000-XHI(V)..	DILM40(230V50HZ) 277766	DILM40(RDC24) 277780																		
	DILM150-XHI(V).. DILM1000-XHI(V)..	DILM50(230V50HZ) 277830	DILM50(RDC24) 277844																		
	DILM150-XHI(V).. DILM1000-XHI(V)..	DILM65(230V50HZ) 277894	DILM65(RDC24) 277908																		

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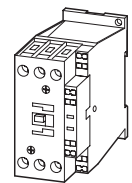
Rated operational current	Max. rating for three-phase motors 50 – 60 Hz						Conventional free air thermal current $I_{th} = I_e$ AC-1 at 60 °C	Auxiliary contacts	Contact sequence
AC-3 380 V 400 V	AC-3 220 V 230 V		380 V 400 V	660 V 690 V	AC-4 220 V 230 V		380 V 400 V	660 V 690 V	Open M = Make B = Break
I_e A	P kW	P kW	P kW	P kW	P kW	P kW	$I_{th} = I_e$ A		

Basic units

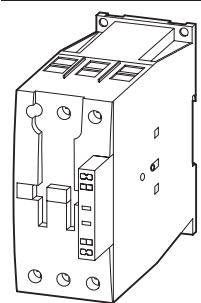
Spring-loaded terminals



3-pole	7	2.2	3	3.5	1	2.2	2.9	20	1 M	–	
	7	2.2	3	3.5	1	2.2	2.9	20	–	1 B	
	9	2.5	4	4.5	1.5	2.5	3.6	20	1 M	–	
	9	2.5	4	4.5	1.5	2.5	3.6	20	–	1 B	
	12	3.5	5.5	6.5	2	3	4.4	20	1 M	–	
	12	3.5	5.5	6.5	2	3	4.4	20	–	1 B	



3-pole	18	5	7.5	11	2.5	4.5	6.5	35	1 M	–	
	18	5	7.5	11	2.5	4.5	6.5	35	–	1 B	
	25	7.5	11	14	3.5	6	8.5	40	1 M	–	
	25	7.5	11	14	3.5	6	8.5	40	–	1 B	
	32	10	15	17	4	7	10	40	1 M	–	
	32	10	15	17	4	7	10	40	–	1 B	



3-pole	40	12.5	18.5	23	5	9	12	50	–	–	
	50	15.5	22	30	6	10	14	60	–	–	
	65	20	30	35	7	12	17	72	–	–	

Notes

DC operated contactors have an integrated suppressor.
Positively driven contacts with DILM7 to DILM32 between integrated auxiliary contact and auxiliary contact module as well as within the auxiliary contact modules.
Positively driven contacts with DILM40 to DILM65 within the auxiliary contact module.
Mirror contact with DILM7-01 to DILM32-01 as well as in combination with auxiliary contact modules
Mirror contact with DILM40 to DILM65 in combination with auxiliary contact module
Combination of side mounted and front auxiliary contact modules up to 6 auxiliary contacts possible with DILM40 to DILM65.
Contact elements of the contactor to EN 50012.

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Can be combined with auxiliary contact	AC operation Type Article no.	Price See Price List	DC operation Type Article no.	Price See Price List	Std. pack	Notes
	DILM32-XHIC.. DILA-XHIC(V)..	DILMC7-10(230V50HZ) 277389	DILMC7-10(24VDC) 277404		1 off	<p>Accessories 1 Overload relay a 6/5 2 Suppressor a 5/2 3 Auxiliary contact modules a 5/22 Further actuating voltages a 5/68 Accessories a 5/53</p>
	DILA-XHIC(V)..	DILMC7-01(230V50HZ) 277421	DILMC7-01(24VDC) 277436			
	DILM32-XHIC.. DILA-XHIC(V)..	DILMC9-10(230V50HZ) 277453	DILMC9-10(24VDC) 277468			
	DILA-XHIC(V)..	DILMC9-01(230V50HZ) 277485	DILMC9-01(24VDC) 277500			
	DILM32-XHIC.. DILA-XHIC(V)..	DILMC12-10(230V50HZ) 277517	DILMC12-10(24VDC) 277532			
	DILA-XHIC(V)..	DILMC12-01(230V50HZ) 277549	DILMC12-01(24VDC) 277564			
	DILM32-XHI.. DILA-XHI(V)..	DILMC17-10(230V50HZ) 277581	DILMC17-10(RDC24) 277595			
	DILA-XHI(V)..	DILMC17-01(230V50HZ) 277611	DILMC17-01(RDC24) 277625			
	DILM32-XHI.. DILA-XHI(V)..	DILMC25-10(230V50HZ) 277641	DILMC25-10(RDC24) 277655			
	DILA-XHI(V)..	DILMC25-01(230V50HZ) 277671	DILMC25-01(RDC24) 277685			
	DILM32-XHI.. DILA-XHI(V)..	DILMC32-10(230V50HZ) 277701	DILMC32-10(RDC24) 277715			
	DILA-XHI(V)..	DILMC32-01(230V50HZ) 277731	DILMC32-01(RDC24) 277745			
	DILM150-XHIC(V).. DILM1000-XHIC..	DILMC40(230V50HZ) 277965	DILMC40(RDC24) 277979			
	DILM150-XHIC(V).. DILM1000-XHIC..	DILMC50(230V50HZ) 277995	DILMC50(RDC24) 278009			
	DILM150-XHIC(V).. DILM1000-XHIC..	DILMC65(230V50HZ) 278025	DILMC65(RDC24) 278039			

Contactors

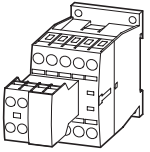
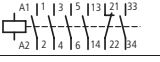
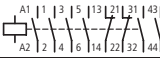



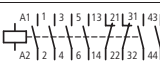
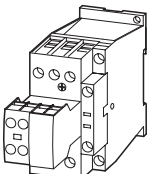

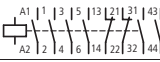

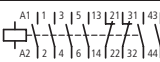
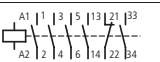

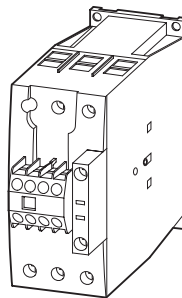

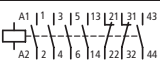

Contactors

Moeller HPL0211-2004/2005

Rated operational current	Max. rating for three-phase motors 50 – 60 Hz						Conventional free air thermal current $I_{th} = I_e$ AC-1 at 60 °C	Auxiliary contacts	Contact sequence
	AC-3	AC-3	AC-3	AC-4	AC-4	AC-4			
380 V 400 V	220 V 230 V	380 V 400 V	660 V 690 V	220 V 230 V	380 V 400 V	660 V 690 V	Open	M = Make B = Break	
I_e	P	P	P	P	P	P	$I_{th} = I_e$	A	
A	kW	kW	kW	kW	kW	kW	A		

DILM complete units

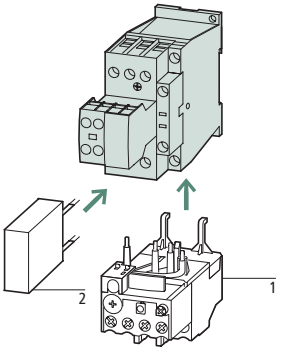
Screw terminals

	7	2.2	3	3.5	1	2.2	2.9	20	2 M	1 B	
	7	2.2	3	3.5	1	2.2	2.9	20	3 M	2 B	
	9	2.5	4	4.5	1.5	2.5	3.6	20	2 M	1 B	
	9	2.5	4	4.5	1.5	2.5	3.6	20	3 M	2 B	
	12	3.5	5.5	6.5	2	3	4.4	20	2 M	1 B	
	12	3.5	5.5	6.5	2	3	4.4	20	3 M	2 B	
	18	5	7.5	11	2.5	4.5	6.5	35	2 M	1 B	
	18	5	7.5	11	2.5	4.5	6.5	35	3 M	2 B	
	25	7.5	11	14	3.5	6	8.5	40	2 M	1 B	
	25	7.5	11	14	3.5	6	8.5	40	3 M	2 B	
	32	10	15	17	4	7	10	40	2 M	1 B	
	32	10	15	17	4	7	10	40	3 M	2 B	
	40	12.5	18.5	23	5	9	12	50	2 M	2 B	
	50	15.5	22	30	6	10	14	60	2 M	2 B	
	65	20	30	35	7	12	17	72	2 M	2 B	

Notes


































DC operated contactors have an integrated suppressor.
 Positively driven contacts with DILM7 to DILM32 between integrated auxiliary contact and auxiliary contact module as well as within the auxiliary contact modules.
 Positively driven contacts with DILM40 to DILM65 within the auxiliary contact module.
 Mirror contact with DILM7-01 to DILM32-01 as well as in combination with auxiliary contact modules
 Mirror contact with DILM40 to DILM65 in combination with auxiliary contact module
 Combination of side mounted and front auxiliary contact modules up to 6 auxiliary contacts possible with DILM40 to DILM65.
 Contact elements of the contactor to EN 50012.

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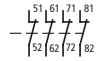
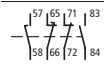

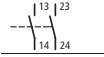
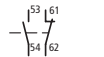
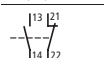
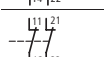
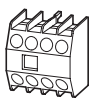

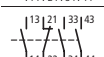
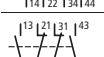
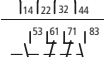
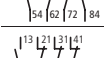
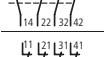
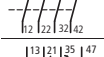
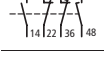
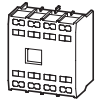


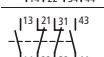
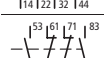
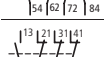
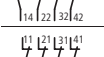
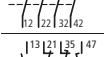
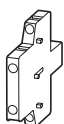
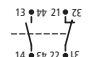
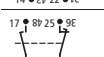
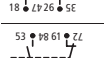
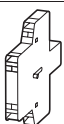
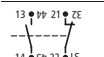
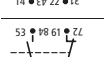
AC operation Type Article no.	Price See Price List	DC operation Type Article no.	Price See Price List	Std. pack	Notes
					Availability of DILM40 to DILM65: from December 2004
DILM7-21(230V50HZ) 276620		DILM7-21(24VDC) 276635		1 off	
DILM7-32(230V50HZ) 276655		DILM7-32(24VDC) 276670			
DILM9-21(230V50HZ) 276760		DILM9-21(24VDC) 276775			
DILM9-32(230V50HZ) 276795		DILM9-32(24VDC) 276810			
DILM12-21(230V50HZ) 276900		DILM12-21(24VDC) 276915			
DILM12-32(230V50HZ) 276935		DILM12-32(24VDC) 276950			
DILM17-21(230V50HZ) 277068		DILM17-21(RDC24) 277082			
DILM17-32(230V50HZ) 277100		DILM17-32(RDC24) 277114			
DILM25-21(230V50HZ) 277196		DILM25-21(RDC24) 277210			
DILM25-32(230V50HZ) 277228		DILM25-32(RDC24) 277242			
DILM32-21(230V50HZ) 277324		DILM32-21(RDC24) 277338			
DILM32-32(230V50HZ) 277356		DILM32-32(RDC24) 277370			
DILM40-22(230V50HZ) 277798		DILM40-22(RDC24) 277812			
DILM50-22(230V50HZ) 277862		DILM50-22(RDC24) 277876			
DILM65-22(230V50HZ) 277926		DILM65-22(RDC24) 277940			

Accessories

- 1 Overload relay a 6/5
- 2 Suppressor a 5/52
- Further actuating voltages a 5/69
- Accessories a 5/53

Connection types	Conventional free air thermal current $I_{th} = I_e$ AC-1 at 60 °C Open $I_{th} = I_e$ A	Contacts M = Make, M _E = early-make contact B = Break, B _L = late-break contact	Circuit symbol	Can be combined with basic unit	Type Article no.	Price See Price List	Std. pack				
Auxiliary contact modules											
with positively driven contacts; with the exception of XHI(C)(V)											
	Screw terminals	2-pole	10	1 M	1 B		DILM(C)7-10... DILM(C)9-10... DILM(C)12-10... DILM(C)17-10... DILM(C)25-10... DILM(C)32-10...	DILM32-XHI11 277376	5 off		
		2-pole	10	—	2 B			DILM32-XHI02 277375	5 off		
	Spring-loaded terminals	4-pole	10	2 M	2 B			DILM32-XHI22 277377	5 off		
		2-pole	10	1 M	1 B			DILM32-XHIC11 277751	5 off		
	Spring-loaded terminals	2-pole	10	—	2 B			DILM32-XHIC02 277750	5 off		
		4-pole	10	2 M	2 B			DILM32-XHIC22 277752	5 off		
	Screw terminals	2-pole	10	2 M	—			DILM(C)7... DILM(C)9... DILM(C)12... DILM(C)17... DILM(C)25... DILM(C)32...	DILA-XHI20 276422	5 off	
		2-pole	10	1 M	1 B				DILA-XHI11 276421	5 off	
		2-pole	10	—	2 B				DILA-XHI02 276420	5 off	
		2-pole	10	1 M _E	1 B _L				DILA-XHIV11 276423	5 off	
			Spring-loaded terminals	4-pole	10	4 M	—			DILA-XHI40 276428	5 off
				4-pole	10	3 M	1 B			DILA-XHI31 276427	5 off
			Spring-loaded terminals	4-pole	10	2 M	2 B			DILA-XHI22 276426	5 off
				4-pole	10	1 M	3 B			DILA-XHI13 276425	5 off
				4-pole	10	—	4 B			DILA-XHI04 276424	5 off
				4-pole	10	1 M, 1 M _E	1 B, 1 B _L			DILA-XHIV22 276429	5 off
	Spring-loaded terminals	2-pole	10	2 M	—		DILA-XHIC20 276528	5 off			
		2-pole	10	1 M	1 B		DILA-XHIC11 276527	5 off			
		2-pole	10	—	2 B		DILA-XHIC02 276526	5 off			
		2-pole	10	1 M _E	1 B _L		DILA-XHICV11 276529	5 off			
			Spring-loaded terminals	4-pole	10	4 M	—		DILA-XHIC40 276534	5 off	
				4-pole	10	3 M	1 B		DILA-XHIC31 276533	5 off	
			Spring-loaded terminals	4-pole	10	2 M	2 B		DILA-XHIC22 276532	5 off	
				4-pole	10	1 M	3 B		DILA-XHIC13 276531	5 off	

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Connection types	Conventional free air thermal current $I_{th} = I_e$ AC-1 at 60 °C Open $I_{th} = I_e$ A	Contacts M = Make, M_E = early-make contact B = Break, B_L = late-break contact	Circuit symbol	Can be combined with basic unit	Type Article no.	Price See Price List	Std. pack	
Auxiliary contact modules								
with positively driven contacts; with the exception of XHI(C)(V)				Availability of DILM150-XHI(C)(V): from December 2004 Availability of DILM1000-XHI(C)(V): from December 2004				
	4-pole	10	—	4 B		DILM(C)7... DILM(C)9... DILM(C)12... DILM(C)17... DILM(C)25... DILM(C)32...	DILA-XHIC04 276530	5 off
	4-pole	10	1 M, 1 M_E	1B, 1 B_L			DILA-XHICV22 276535	
	2-pole	10	2 M	—		DILM40... DILM50... DILM65...	DILM150-XHI20 277945	
	2-pole	10	1 M	1 B			DILM150-XHIA11 283463	
	2-pole	10	1 M	1 B			DILM150-XHI11 277946	
	2-pole	10	—	2 B			DILM150-XHI02 277947	
	4-pole	10	4 M	—		DILM40... DILM50... DILM65...	DILM150-XHI40 277948	
	4-pole	10	3 M	1 B			DILM150-XHI31 277949	
	4-pole	10	2 M	2 B			DILM150-XHI22 277950	
	4-pole	10	2 M	2 B			DILM150-XHIA22 283464	
	4-pole	10	1 M	3 B			DILM150-XHI13 277951	
	4-pole	10	—	4 B			DILM150-XHI04 277952	
	4-pole	10	1 M, 1 M_E	1B, 1 B_L			DILM150-XHIV22 277953	
	4-pole	10	4 M	—			DILM150-XHIC40 278044	
	4-pole	10	3 M	1 B		DILM40... DILM50... DILM65...	DILM150-XHIC31 278045	
	4-pole	10	2 M	2 B		DILM150-XHIC22 278046		
	4-pole	10	2 M	2 B		DILM150-XHIAC22 283465		
	4-pole	10	1 M	3 B		DILM150-XHIC13 278047		
	4-pole	10	—	4 B		DILM150-XHIC04 278048		
	4-pole	10	1 M, 1 M_E	1B, 1 B_L		DILM150-XHICV22 278049		
	4-pole	10	4 M	—		DILM150-XHIC40 278044		
	2-pole	10	1 M	1 B		DILM40... DILM50... DILM65...	DILM1000-XHI11-SI ¹⁾ 278425	1 off
	2-pole	10	1 M	1 B			DILM1000-XHIV11-SI ¹⁾ 278426	
	2-pole	10	1 M	1 B		—	DILM1000-XHI11-SA ¹⁾ 278427	
	2-pole	10	1 M	1 B		DILM40... DILM50... DILM65...	DILM1000-XHIC11-SI ¹⁾ 278428	
	2-pole	10	1 M	1 B		—	DILM1000-XHIC11-SA ¹⁾ 278430	

Note

¹⁾ Replacement for DILM820-XHI11-...



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Rated operational current AC-3 380 V 400 V I_e A	Max. rating for three-phase motors 50 – 60 Hz				AC-4				Conventional free air thermal current $I_{th} = I_e$ AC-1 at 55 °C		Circuit-symbol	Can be combined with auxiliary contact module
	220 V	380 V	660 V	1000 V	220 V	380 V	660 V	1000 V	Open $I_{th} = I_e$	Enclosed $I_{th} = I_e$		
	P	P	P	P	P	P	P	P	A	A		
	kW	kW	kW	kW	kW	kW	kW	kW				

Basic units

Pole	Terminal type	Rated current	220V	380V	660V	1000V	AC-4 220V	AC-4 380V	AC-4 660V	AC-4 1000V	Open I_{th}	Enclosed I_{th}	Circuit symbol	Model
4-pole	Screw terminals	8.8	2.2	4	5.5	–	1.5	3	4	–	20	16		...DILM ...DIL
		8.8	2.2	4	5.5	–	1.5	3	4	–	20	16		...DILM ...DIL
		8.8	2.2	4	5.5	–	1.5	3	4	–	20	16		...DIL
		8.8	2.2	4	5.5	–	1.5	3	4	–	20	16		...DIL
		12	3	5.5	7.5	–	2.2	4	5.5	–	20	16		...DILM ...DIL
		12	3	5.5	7.5	–	2.2	4	5.5	–	20	16		...DIL
		12	3	5.5	7.5	–	2.2	4	5.5	–	20	16		...DIL
		15.5	4	7.5	7.5	–	2.2	4	5.5	–	20	16		...DILM ...DIL
		15.5	4	7.5	7.5	–	2.2	4	5.5	–	20	16		...DIL
		15.5	4	7.5	7.5	–	2.2	4	5.5	–	20	16		...DIL
		15.5	4	7.5	11	–	3	5.5	7.5	–	35	30		DILM820- XHI...-SI ...DILM ...DIL ...SDILM
		22.5	5.5	11	15	–	4	7.5	11	–	35	30		
30	7.5	15	18.5	–	5.5	11	15	–	55	44				
36	11	18.5	22	–	7.5	15	18.5	–	55	44				
43	15	22	30	–	11	18.5	22	–	90	80				
58	18.5	30	37	–	15	22	30	–	90	80				
72	22	37	55	37	18.5	30	45	30	104	90		DILM820- XHI...		
85	25	45	75	45	22	37	45	37	104	90				
104	37	55	90	55	26	45	55	45	167	140				
142	45	75	110	65	30	55	75	55	167	140				

AC operation Type Article no.	Price See Price List	DC operation Type Article no.	Price See Price List	Std. pack	Notes
DIL00M4(230V50HZ) 046929		DIL00M4-G(24VDC) 063171		1 off	
DIL00M(230V50HZ) 061217		DIL00M-G(24VDC) 048587			
DIL00M-10(230V50HZ) 046646		DIL00M-G-10(24VDC) 048670			
DIL00M-01(230V50HZ) 046654		DIL00M-G-01(24VDC) 048665			
DIL00AM(230V50HZ) 061224		DIL00AM-G(24VDC) 048567			
DIL00AM-10(230V50HZ) 046678		DIL00AM-G-10(24VDC) 048650			
DIL00AM-01(230V50HZ) 046686		DIL00AM-G-01(24VDC) 048645			
DIL00BM(230V50HZ) 061233		DIL00BM-G(24VDC) 048572			
DIL00BM-10(230V50HZ) 061241		DIL00BM-G-10(24VDC) 048582			
DIL00BM-01(230V50HZ) 061249		DIL00BM-G-01(24VDC) 048577			
DIL0M(230V50HZ) 061257		DIL0M-G(24VDC) 048597			
DIL0AM(230V50HZ) 061265		DIL0AM-G(24VDC) 048592			
DIL1M(230V50HZ) 061273		DIL1M-G(24VDC) 048605			
DIL1AM(230V50HZ) 061457		DIL1AM-G(24VDC) 048602			
DIL2M(230V50HZ) 046566		DIL2M-G(24VDC) 048615			
DIL2AM(230V50HZ) 046574		DIL2AM-G(24VDC) 048610			
DIL3M80(230V50HZ) 209694		DIL3M80(24VDC) 209709			
DIL3AM85(230V50HZ) 209726		DIL3AM85(24VDC) 209737			
DIL4M115(230V50HZ) 209753		DIL4M115(24VDC) 209765			
DIL4AM145(230V50HZ) 209781		DIL4AM145(24VDC) 209792			

- Accessories**
- 1 Overload relay a 6/9
 - 2 Amplifier module or suppressor a 5/59, 5/54
 - 3 Pneumatic timer modules a 5/58
 - 4 Mechanical latching modules a 5/58
 - 5 Additional 4th pole from DIL0M(-G) a 5/58
 - 6 Top mounting auxiliary contact a 5/34
 - 7 Side mounting auxiliary contact a 5/35
 - Enclosure totally insulated a 5/94
 - Accessories a 5/54
 - Further actuating voltages a 5/72

- Accessories**
- 1 Overload relay a 6/9
 - 2 Amplifier module or suppressor a 5/59, 5/54
 - 3 Side mounting auxiliary contacts a 5/35
 - Further actuating voltages a 5/72
- Snap-fit on 75 mm top-hat rail to EN 50023.
DC operated contactors have an integrated suppressor (Varistor).

Notes ¹⁾ Motor rating AC-3, AC-4; 660/690 V or 1000 V:
Do not reverse directly

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Rated operational current	Max. rating for three-phase motors 50 – 60 Hz						Conventional free air thermal current $I_{th} = I_e$ AC-1 at 55 °C		Contact sequence	Can be combined with auxiliary contact module
	AC-3		AC-4		Open	Enclosed				
380 V	220 V	380 V	660 V	220 V	380 V	660 V				
400 V	230 V	400 V	690 V	230 V	400 V	690 V				
I_e	P	P	P	P	P	P	$I_{th} = I_e$	$I_{th} = I_e$		
A	kW	kW	kW	kW	kW	kW	A	A		

Basic units

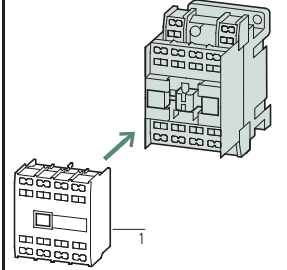
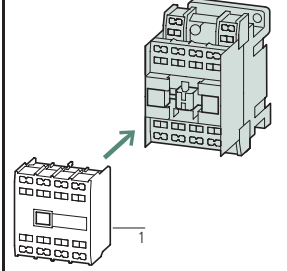
Spring-loaded terminals	Max. rating for three-phase motors 50 – 60 Hz						Conventional free air thermal current $I_{th} = I_e$ AC-1 at 55 °C	Contact sequence	Can be combined with auxiliary contact module
	AC-3		AC-4		Open	Enclosed			
8.8	2.2	4	5.5	1.5	3	4	20	16	...DILM-C ...DIL-C
8.8	2.2	4	5.5	1.5	3	4			
12	3	5.5	7.5	2.2	4	5.5			
12	3	5.5	7.5	2.2	4	5.5			

Basic units with integrated suppressor

Spring-loaded terminals	Max. rating for three-phase motors 50 – 60 Hz						Conventional free air thermal current $I_{th} = I_e$ AC-1 at 55 °C	Contact sequence	Can be combined with auxiliary contact module
	AC-3		AC-4		Open	Enclosed			
8.8	2.2	4	5.5	1.5	3	4	20	16	...DILM-C ...DIL-C
8.8	2.2	4	5.5	1.5	3	4			
12	3	5.5	7.5	2.2	4	5.5			
12	3	5.5	7.5	2.2	4	5.5			

Notes Contact markings are duplicated where a top mounting auxiliary contact ...DILM-C is used Do not reverse directly for 660 V and 690 V.

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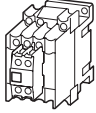
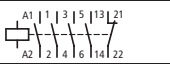
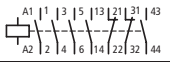
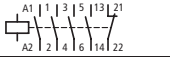
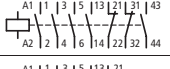
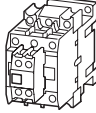
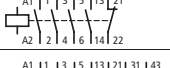
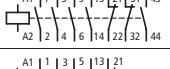
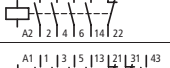
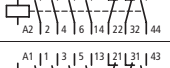
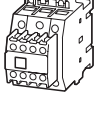
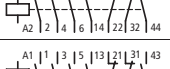
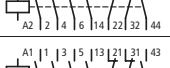
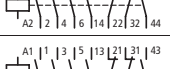
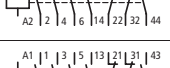
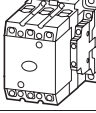
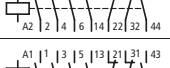
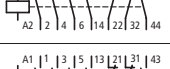
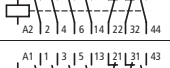
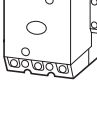
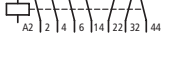
AC operation Type Article no.	Price See Price List	Std. pack	DC operation Type Article no.	Price See Price List	Std. pack	Notes
DIL00M-10-C(230V50HZ) 230168		1 off	DIL00M-G-10-C(24VDC) 230169		1 off	 <p>Accessories</p> <ul style="list-style-type: none"> 1 Top mounting auxiliary contact a 5/34 Pneumatic timer modules a 5/58 Mechanical latching modules a 5/58 Enclosure totally insulated a 5/94 Further actuating voltages a 5/72
DIL00M-01-C(230V50HZ) 230170			DIL00M-G-01-C(24VDC) 230171			
DIL00AM-10-C(230V50HZ) 230172			DIL00AM-G-10-C(24VDC) 230173			
DIL00AM-01-C(230V50HZ) 230174			DIL00AM-G-01-C(24VDC) 230175			
DIL00M-10-C(230V50HZ-Z) 232000		1 off	DIL00M-G-10-C(24VDC-Z) 232002		1 off	 <p>Accessories</p> <ul style="list-style-type: none"> 1 Top mounting auxiliary contact a 5/34 Pneumatic timer modules a 5/58 Mechanical latching modules a 5/58 Enclosure totally insulated a 5/94 Further actuating voltages a 5/72
DIL00M-01-C(230V50HZ-Z) 232006			DIL00M-G-01-C(24VDC-Z) 232008			
DIL00AM-10-C(230V50HZ-Z) 232012			DIL00AM-G-10-C(24VDC-Z) 232014			
DIL00AM-01-C(230V50HZ-Z) 232018			DIL00AM-G-01-C(24VDC-Z) 232020			

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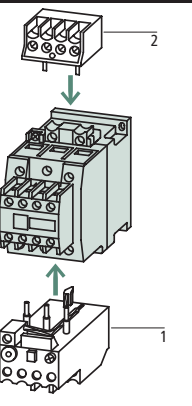
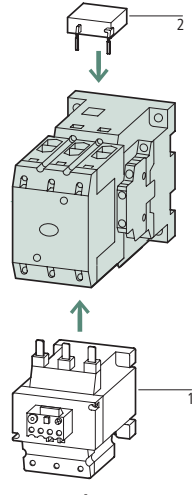
Moeller HPL0211-2004/2005

Rated operational current	Max. rating for three-phase motors 50 – 60 Hz								Conventional free air thermal current $I_{th} = I_e$ AC-1 at 55 °C		Contact sequence
	AC-3				AC-4				Open	Enclosed	
	380 V 400 V	220 V 230 V	380 V 400 V	660 V 690 V	1000 V	220 V 230 V	380 V 400 V	660 V 690 V	1000 V	$I_{th} = I_e$	
I_e	P	P	P	P	P	P	P	P	A	A	
A	kW	kW	kW	kW	kW	kW	kW	kW	A	A	

DIL contactors

	8.8	2.2	4	5.5	–	1.5	3	4	–	20	16	
	8.8	2.2	4	5.5	–	1.5	3	4	–	20	16	
	12	3	5.5	7.5	–	2.2	4	5.5	–	20	16	
	12	3	5.5	7.5	–	2.2	4	5.5	–	20	16	
	15.5	4	7.5	11	–	3	5.5	7.5	–	35	30	
	15.5	4	7.5	11	–	3	5.5	7.5	–	35	30	
	22.5	5.5	11	15	–	4	7.5	11	–	35	30	
	22.5	5.5	11	15	–	4	7.5	11	–	35	30	
	30	7.5	15	18.5	–	5.5	11	15	–	55	44	
	36	11	18.5	22	–	7.5	15	18.5	–	55	44	
	43	15	22	30	–	11	18.5	22	–	90	80	
	58	18.5	30	37	–	15	22	30	–	90	80	
	72	22	37	55	37	18.5	30	45	38	104	90	
	85	25	45	75	45	22	37	45	46	104	90	
	104	37	55	90	55	26	45	55	56	167	140	
	142	45	75	110	65	32	55	77	56	167	140	

Can be combined with auxiliary contact module	AC operation	Price See Price List Discount	DC operation	Price See Price List Discount	Std. pack	Notes
	Type Article no.		Type Article no.			

–	DIL00M/11(230V50HZ) 046662		DIL00M-G/11(24VDC) 048675		1 off	 <p>Accessories</p> <ul style="list-style-type: none"> 1 Overload relay a 6/9 2 Amplifier module or suppressor a 5/59, 5/54 <p>Enclosure totally insulated a 5/94, 5/95</p> <p>Accessories a 5/54</p> <p>Further actuating voltages a 5/74</p>	
–	DIL00M/22(230V50HZ) 046670		DIL00M-G/22(24VDC) 048680				
–	DIL00AM/11(230V50HZ) 046694		DIL00AM-G/11(24VDC) 048655				
–	DIL00AM/22(230V50HZ) 046702		DIL00AM-G/22(24VDC) 048660				
–	DIL0M/11(230V50HZ) 046710		DIL0M-G/11(24VDC) 048686				
–	DIL0M/22(230V50HZ) 046718		DIL0M-G/22(24VDC) 048953				
–	DIL0AM/11(230V50HZ) 046756		DIL0AM-G/11(24VDC) 049000				
–	DIL0AM/22(230V50HZ) 046764		DIL0AM-G/22(24VDC) 049997				
–	DIL1M/22(230V50HZ) 046772		DIL1M-G/22(24VDC) 051692				
–	DIL1AM/22(230V50HZ) 046780		DIL1AM-G/22(24VDC) 050858				
–	DIL2M/22(230V50HZ) 046788		DIL2M-G/22(24VDC) 051702				
–	DIL2AM/22(230V50HZ) 046796		DIL2AM-G/22(24VDC) 051697				
DILM820-XHI...-SA	DIL3M80/22(230V50HZ) 209869		DIL3M80/22(24VDC) 209880		1 off		 <p>Accessories</p> <ul style="list-style-type: none"> 1 Overload relay a 6/9 2 Suppressor a 5/54 Auxiliary contacts a 5/34 <p>Enclosure totally insulated a 5/95</p> <p>Accessories a 5/54</p> <p>Further actuating voltages a 5/74</p>
	DIL3AM85/22(230V50HZ) 209896		DIL3AM85/22(24VDC) 209907				
	DIL4M115/22(230V50HZ) 209923		DIL4M115/22(24VDC) 209934				
	DIL4AM145/22(230V50HZ) 209950		DIL4AM145/22(24VDC) 209961				

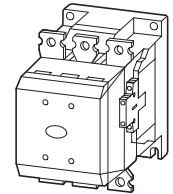
Notes
DIL3M80 to DIL4AM145 contactor for snap-fit onto 75 mm top-hat rail to EN 50023.
DC operated contactors DIL3M80 to DIL4AM145 have an integrated suppressor.
Do not reverse directly for 660 V, 690 V and 1000 V.

Contactors



Rated operational current	Max. rating for three-phase motors 50 – 60 Hz								Conventional free air thermal current $I_{th} = I_e$ AC-1 at 60 °C Open	Contact sequence	Can be combined with auxiliary contact module
	AC-3				AC-4						
380 V 400 V	220 V 230 V	380 V 400 V	660 V 690 V	1000 V	220 V 230 V	380 V 400 V	660 V 690 V	1000 V			
I_e	P	P	P	P	P	P	P	P	$I_{th} = I_e$		
A	kW	kW	kW	kW	kW	kW	kW	kW	A		

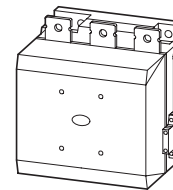
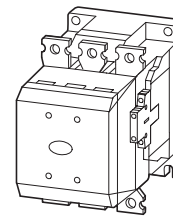
DILM comfort contactor



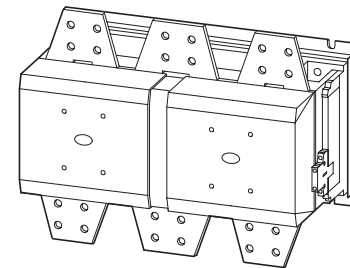
185	55	90	175	108	41	75	127	108	275
225	70	110	215	108	51	90	155	108	315
250	75	132	240	108	62	110	189	108	350
300	90	160	286	132	75	132	229	132	400
400	125	200	344	132	92	160	283	132	500
500	155	250	344	132	112	200	344	132	700
580	185	315	560	600	143	250	440	509	800
650	205	355	630	600	161	280	494	509	850
750	240	400	720	800	181	315	556	678	900
820	260	450	750	800	209	355	633	678	1000
1000	315	560	1000	1000	260	450	780	1000	1000



DILM820-XHI...



DILH comfort contactor, AC-1



1400
2000



DILM820-XHI...

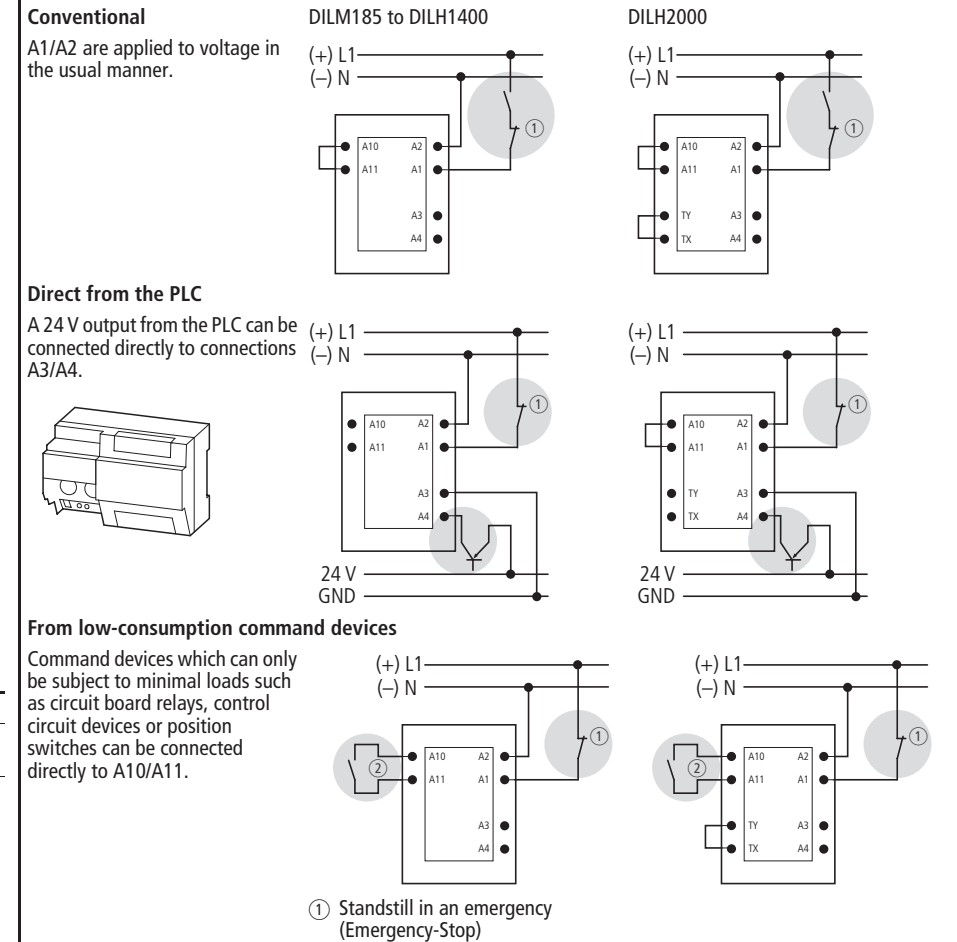
Notes

660 V, 690 V or 1000 V:
Do not reverse directly
All contactors have an integrated suppressor.
When operating DILM580 to DILH2000 contactors with frequency inverters, the suppressor on the load side must be removed.
The suppressor on the load side must be removed with DILM580 to DILH2000 contactors when performing a high-voltage test.
Control voltages:
RAW250 Δ 230 – 250 V AC/DC
RA250 Δ 110 – 250 V AC/DC

Accessories

Auxiliary contact modules	a	5/35
Enclosure	a	5/95
Accessories	a	5/54
Further actuating voltages	a	5/77

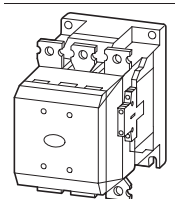
Type Article no.	Price See Price List	Std. pack	Notes
DILM185/22(RA250) 208193		1 off	<p>Conventional A1/A2 are applied voltage in the usual manner.</p> <p>Direct from the PLC A 24 V output from the PLC can be connected directly to connections A3/A4.</p> <p>From low-consumption command devices Command devices which can only be subject to minimal loads such as circuit board relays, control circuit devices or position switches can be connected directly to A10/A11.</p> <p>① Standstill in an emergency (Emergency-Stop)</p>
DILM225/22(RA250) 208197			
DILM250/22(RA250) 208201			
DILM300/22(RA250) 208205			
DILM400/22(RA250) 208209			
DILM500/22(RA250) 208213			
DILM580/22(RA250) 208216			
DILM650/22(RA250) 208219			
DILM750/22(RA250) 208222			
DILM820/22(RA250) 208225			
DILM1000/22(RA250) 267214			
DILH1400/22(RAW250) 272441		1 off	<p>Conventional A1/A2 are applied voltage in the usual manner.</p> <p>Direct from the PLC A 24 V output from the PLC can be connected directly to connections A3/A4.</p> <p>From low-consumption command devices Command devices which can only be subject to minimal loads such as circuit board relays, control circuit devices or position switches can be connected directly to A10/A11.</p> <p>① Standstill in an emergency (Emergency-Stop)</p>
DILH2000/22(RAW250) 272442		1 off	



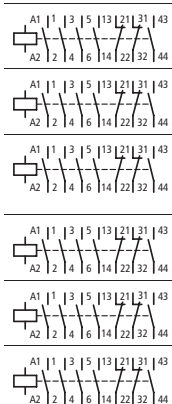
Rated operational current	Max. rating for three-phase motors 50 – 60 Hz								Conventional free air thermal current $I_{th} = I_e$ AC-1 at 40 °C	Contact sequence Open $I_{th} = I_e$
	AC-3 380 V 400 V		AC-3 220 V 230 V 380 V 400 V 660 V 690 V		AC-3 220 V 230 V 380 V 400 V 660 V 690 V		AC-4 220 V 230 V 380 V 400 V 660 V 690 V			
I_e	P	P	P	P	P	P	P	P	P	A
A	kW	kW	kW	kW	kW	kW	kW	kW	kW	

DILM complete units

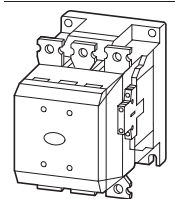
Standard



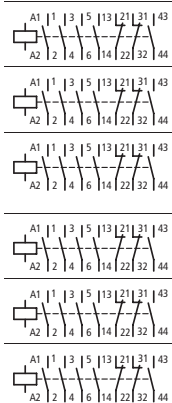
	185	225	250	300	400	500
55	70	75	90	125	155	185
90	110	132	160	200	250	300
175	215	240	286	344	344	344
108	108	108	132	132	132	132
41	51	62	75	92	112	127
75	90	110	132	160	200	250
127	155	189	229	283	344	429
108	108	108	132	132	132	132
337	386	429	490	612	857	



Standard, control circuit terminal with springloaded terminal



	185	225	250	300	400	500
55	70	75	90	125	155	185
90	110	132	160	200	250	300
175	215	240	286	344	344	344
108	108	108	132	132	132	132
41	51	62	75	92	112	127
75	90	110	132	160	200	250
127	155	189	229	283	344	429
108	108	108	132	132	132	132
337	386	429	490	612	857	



Notes

660/690 V or 1000 V:
Do not reverse directly

All contactors have an integrated suppressor.

Accessories

Auxiliary contact modules	a	5/35
Enclosure totally insulated	a	5/95
Accessories	a	5/54
Further actuating voltages	a	5/77

Can be combined with auxiliary contact	Type Article no.	Price See Price List	Std. pack	Notes
	DILM820-XHI... DILM185-S/22(220-240V50/60HZ) 274185		1 off	<p>DILM...-S contactors are triggered in the conventional manner</p> <p>① Standstill in an emergency (Emergency-Stop)</p>
	DILM820-XHI... DILM225-S/22(220-240V50/60HZ) 274187		1 off	
	DILM820-XHI... DILM250-S/22(220-240V50/60HZ) 274190		1 off	
	DILM820-XHI... DILM300-S/22(220-240V50/60HZ) 274193		1 off	
	DILM820-XHI... DILM400-S/22(220-240V50/60HZ) 274196		1 off	
	DILM820-XHI... DILM500-S/22(220-240V50/60HZ) 274199		1 off	
	DILM820-XHI... DILMC185-S/22(220-240V50/60HZ) 274311		1 off	<p>DILM...-S contactors are triggered in the conventional manner</p> <p>① Standstill in an emergency (Emergency-Stop)</p> <p>The auxiliary contacts and the coil connection of the DILMC...-S contactors feature springloaded terminals.</p>
	DILM820-XHI... DILMC225-S/22(220-240V50/60HZ) 274314		1 off	
	DILM820-XHI... DILMC250-S/22(220-240V50/60HZ) 274317		1 off	
	DILM820-XHI... DILMC300-S/22(220-240V50/60HZ) 274320		1 off	
	DILM820-XHI... DILMC400-S/22(220-240V50/60HZ) 274323		1 off	
	DILM820-XHI... DILMC500-S/22(220-240V50/60HZ) 274326		1 off	

Termination's	Conventional free air thermal current $I_{th} = I_e$ AC-1 at 50 °C	Contacts	Circuit-symbol	Can be combined with basic unit	Type Article no.	Price See Price List	Std. pack
	Open $I_{th} = I_e$ A	M = Make B = Break					

Auxiliary contact modules

Top mounting auxiliary contacts¹⁾



Termination's	Conventional free air thermal current $I_{th} = I_e$ AC-1 at 50 °C	Contacts	Circuit-symbol
Screw terminals	2-pole	1 M 1 B	
	4-pole	2 M 2 B	
	4-pole	3 M 1 B	
	4-pole	2 M 2 B	
	2-pole	- 2 B	
	2-pole	1 M 1 B	
	2-pole	2 M -	
	4-pole	- 4 B	
	4-pole	1 M 3 B	
	4-pole	2 M 2 B	
4-pole	3 M 1 B		
4-pole	4 M -		

DIL00(A)M,
DIL00BM,
DIL0(A)M,
DIL1(A)M,
DIL2(A)M,
DIL00M4

11DILM 017507	5 off
22DILM 019880	
31DILM 022253	
22DDILM²⁾ 026999	
02DIL 098145	
11DIL 010345	
20DIL 012718	
04DIL 015091	
13DIL 017464	
22DIL 019837	
31DIL 010752	
40DIL 022210	



Termination's	Conventional free air thermal current $I_{th} = I_e$ AC-1 at 50 °C	Contacts	Circuit-symbol
Spring-loaded terminals	4-pole	2 M 2 B	
	4-pole	3 M 1 B	
	4-pole	2 M 2 B	
	2-pole	1 M 1 B	
	4-pole	- 4 B	
	4-pole	1 M 3 B	
	4-pole	2 M 2 B	
	4-pole	3 M 1 B	
	4-pole	4 M -	











DIL00M-...-C
DIL00AM-...-C

22DILM-C 230271	5 off
31DILM-C 230275	
22DDILM-C²⁾ 230280	
11DIL-C 268233	
04DIL-C 230282	
13DIL-C 230284	
22DIL-C 230286	
31DIL-C 230289	
40DIL-C 230290	

Notes

- ¹⁾ Can be combined with auxiliary contacts for side mounting up to a maximum of 5 contacts.
- ²⁾ 1 early-make contact, 1 late-break contact

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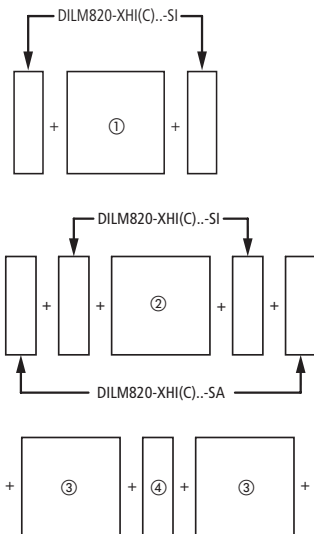
		Conventional free air thermal current $I_{th} = I_e$ AC-1	Contacts		Circuit-symbol	Can be combined with basic unit	Type Article no.	Price See Price List Discount	Std. pack	
		Open	M = Make	B = Break						
		$I_{th} = I_e$								
		A								
Auxiliary contact modules										
Side mounting auxiliary contacts										
	Screw terminals	16	1 M	–		DIL0(A)M DIL1(A)M DIL2(A)M	10SDILM 089080		5 off	
		16	–	1 B			01SDILM 001930			
		16	1 M	1 B			11SDILM 024626			
			10	1 M	1 B		DIL0M – DILM820	DILM820-XHI11-SI 208281		1 off
			10	1 M	1 B		DIL0M – DILM820	DILM820-XHI11-SA 208282		
			10	1 M	1 B		DIL0M – DILM820	DILM820-XHI11V-SI 208283		
	Spring-loaded terminals	10	1 M	1 B		DIL0M – DILM820	DILM820-XHIC11-SI 229513			
		10	1 M	1 B		DIL0M – DILM820	DILM820-XHIC11-SA 229512			

Contactors



Notes

Auxiliary contact module fitting options



- ① DIL0M – DILH2000
- ② DIL3M80 – DILH2000
- ③ DIL0M – DILM1000
- ④ Mechanical interlock

Max. 8 auxiliary contacts possible for:

- DIL3M80 to DILH2000 contactors

Max. 5 auxiliary contacts possible for:

- Contactors DIL0M to DIL2AM

2 DILM820-XHI11-SI auxiliary contacts are already fitted on:

- DIL3M80/22 to DILH2000 contactors

No auxiliary contacts can be fitted between the mechanical interlock and the contactor.

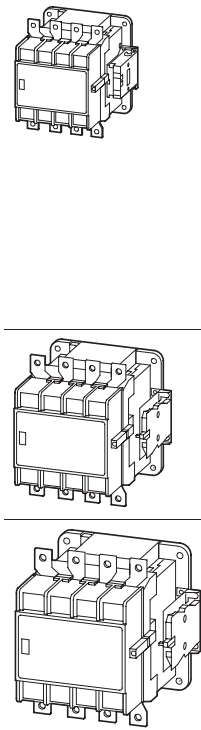
DILM820-XHI... cannot be combined with the ...SDILM auxiliary switch.

DILM820-XHI11-SI cannot be combined with DIL0(A)M-G.

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Rated operational current, open			Conventional free air thermal current $I_{th} = I_e$ AC-1	Contacts Open	Contacts M = Make B = Break	Contact sequence	Can be combined with auxiliary contact
40 °C	55 °C	70 °C					
A	A	A	$I_{th} = I_e$ A				

DIL P contactors, 4-pole



Screw terminals	160	250	315	500	630	800	160	250	315	500	630	800	2 M	2 B	1 1 1 3 1 5 1 7 1 13 2 1 13 1 4 3 2 4 6 8 14 22 13 2 1 4 4	DILP800-XHI...
	160	250	315	500	630	800	160	250	315	500	630	800				

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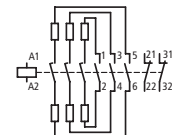
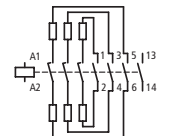
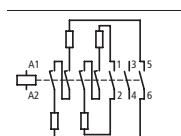
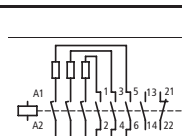
Type Article no.	Price See Price List	Std. pack	Notes
DILP160/22(48V50HZ) 207452		1 off	<p>1 Cover a 5/57 2 Mechanical interlock a 5/56 3 Auxiliary contacts a 5/34</p>
DILP160/22(110V50HZ, 120V60HZ) 207453			
DILP160/22(220-230V50HZ) 207454			
DILP250/22(48V50HZ) 207455			
DILP250/22(110V50HZ, 120V60HZ) 207456			
DILP250/22(220-230V50HZ) 207457			
DILP315/22(48V50HZ) 207458			
DILP315/22(110V50HZ, 120V60HZ) 207459			
DILP315/22(220-230V50HZ) 207460			
DILP500/22(48V50HZ) 207461			
DILP500/22(110V50HZ, 120V60HZ) 207462			
DILP500/22(220-230V50HZ) 207463			
DILP630/22(48V50HZ) 207464			
DILP630/22(110V50HZ, 120V60HZ) 207465			
DILP630/22(220-230V50HZ) 207466			
DILP800/22(48V50HZ) 207467			
DILP800/22(110V50HZ, 120V60HZ) 207468			
DILP800/22(220-230V50HZ) 207469			



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Three-phase capacitors 50 – 60 Hz				Enclosed				Accessories required		Contact sequence
Open								Auxiliary contact modules for side mounting	Quick-discharge resistor	
230 V	400 V	525 V	690 V	230 V	400 V	525 V	690 V	Type	Type	
kvar	kvar	kvar	kvar	kvar	kvar	kvar	kvar			

With series resistors – with quick-discharge resistor



Basic units	6.7	12.5	12.5	18	5	10	10.5	19	–	EWDIL
	8.5	16.7	20	24	8.3	14	19	20	2 × 01 S DIL M	
	15	25	33.3	36	12	21	27	30		
	20	33.3	44	48	17.5	30	40	44		
	25	40	44	18	23.3	37.5	40	15		

With series resistors without quick-discharge resistor

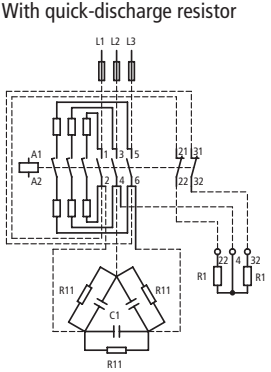
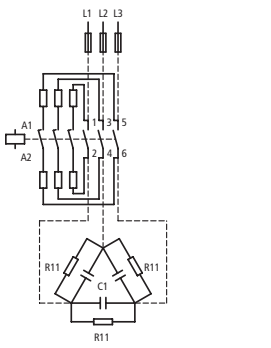
Basic units	6.7	12.5	12.5	18	5	10	10.5	15	–	–
	8.5	16.7	20	24	8.3	14	19	20	–	–
	15	25	33.3	36	12	21	27	30	–	–
	20	33.3	44	48	17.5	30	40	44	–	–
	25	40	44	18	23.3	37.5	40	15	–	–

Auxiliary contact modules

Conventional free air thermal current $I_{th} = 16 A$
Side mounting

	Contact sequence	Type Article no.	Price See Price List	Std. pack
With 1 make contact		10SDILM 089080		5 off
With 1 break contact		01SDILM 001930		5 off

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Type Article no.	Price See Price List	Std. pack	Notes
DIL00MK-02(230V50HZ) 047034		1 off	Weld-resistant for capacitors with inrush current peaks up to $180 \times I_N$ With quick-discharge resistor 
DIL0MK-10(230V50HZ) 047045			Without quick-discharge resistor 
DIL1MK-10(230V50HZ) 047055			
DIL2MK-10(230V50HZ) 047065			
DIL2MKV-00(230V50HZ) 047075			
DIL00MK-11(230V50HZ) 047023		1 off	
DIL0MK-10(230V50HZ) 047045			Accessories 2 Quick-discharge resistor Enclosure totally insulated Accessories Application notes Further actuating voltages
DIL1MK-10(230V50HZ) 047055			
DIL2MK-10(230V50HZ) 047065			
DIL2MKV-00(230V50HZ) 047075			

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a 5/78

Contactors

Contactors



Three-phase capacitors 50 – 60 Hz							
Open				Enclosed			
230 V	400 V	525 V	690 V	230 V	400 V	525 V	690 V
	420 V				420 V		
	440 V				440 V		
kvar	kvar	kvar	kvar	kvar	kvar	kvar	kvar

Contact sequence

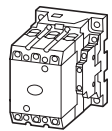
Type Article no.

Price See Price List Discount

Std. pack

Without series resistor

Circuit with or without quick-discharge resistor



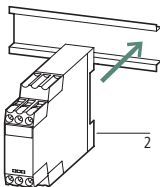
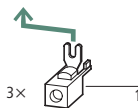
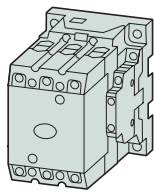
30				50				60				75			
28	47	60	75	28	47	60	75	28	47	60	75	28	47	60	75



DIL3MK72/22(230V50HZ)
209977

1 off

Notes

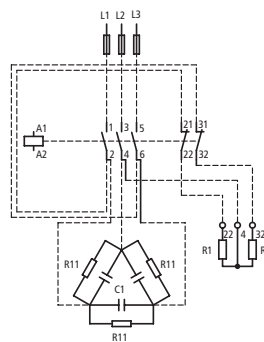


Accessories

- 1 Extension terminal a 5/57
- 2 Quick-discharge resistor a 5/58
- Enclosure totally insulated a 5/95
- Accessories a 5/54
- Further actuating voltages a 5/78
- Accessories required for circuit with EWDIL quick-discharge resistor:
- EWDIL quick-discharge resistor
- Extension terminals: 3 × ZKDILM

Application Note

Circuit with quick-discharge resistor

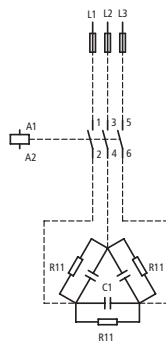


In the case of group compensation multi-stage capacitor banks are connected to the mains, as required. In the process, transient currents of up to $180 \times I_e$ can flow between the capacitors.

The capacitors are pre-charged via the early-make auxiliary contacts and the fitted wire resistors, thereby reducing the inrush current. The main contacts then close after a time lag and carry the uninterrupted current. The contactors for capacitor are weld-resistant with inrush current peaks up to $180 \times I_e$ due to their special contacts.

Through the use of quick-discharge resistors the danger of complete polarity reversal in the event of rapidly recurring closure can be excluded. The resultant discharge times are 0.2 s. The resistor is switched by means of two auxiliary contacts of the contactor.

Circuit without quick-discharge resistor



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Type	Page	Switching capacity, open version				Switching capacity, enclosed version			
		230 V	400 V 420 V 440 V	525 V	690 V	230 V	400 V 420 V 440 V	525 V	690 V
		kvar	kvar	kvar	kvar	kvar	kvar	kvar	kvar
Individual compensation, open version									
DIL00M	24	3	5	5	7.5	3	5	5	7.5
DIL0M	24	4.5	7	9	11	4.5	7	9	11
DIL0AM	24	7.5	12.5	16	20	7.5	12.5	16	20
DIL1M	24	12	20	25	30	12	20	25	30
DIL1AM	24	13.3	25	33.3	37	13.3	25	33.3	37
DIL2M	24	15	30	40	50	15	30	40	50
DIL2AM	24	25	45	60	60	20	40	50	60
DIL3M80	24	40	50	50	40	34	42	42	34
DIL4M115	24	50	60	75	66	42	51	63	56
DILM185	30	87	150	190	150	–	–	–	–
DILM300	30	115	200	265	200	–	–	–	–
DILM580	30	175	300	400	300	–	–	–	–
Group compensation, with choke, open version									
DIL00M	24	4	7.5	10	15	3	5	7.5	10
DIL00AM	24	5	10	12.5	16.7	4	7.5	9	12.5
DIL0M	24	7.5	15	17.5	25	6.7	10	15	20
DIL0AM	24	10	16.7	20	30	8	12.5	18	23
DIL1M	24	12.5	20	25	35	10	15	20	30
DIL1AM	24	15	25	30	40	11	20	26	35
DIL2M	24	20	33	40	66.7	17.5	30	40	55
DIL2AM	24	25	45	50	75	21	35	48	63
DIL3M80	24	27.5	47	60	85	22.5	37.5	50	66.7
DIL3AM85	24	30	50	70	90	25	40	54	71
DIL4M115	24	40	66.7	90	120	35	55	66.7	90
DIL4AM145	24	45	80	110	140	37	64	84	111
DILM185	30	80	150	200	260	66	115	150	200
DILM225	30	100	175	230	300	73	125	160	210
DILM250	30	110	190	260	340	80	130	180	230
DILM300	30	130	225	290	390	93	160	210	275
DILM400	30	160	280	370	480	120	200	270	350
DILM500	30	220	390	500	680	170	300	390	500
Group compensation, without choke, open version									
DIL00MK	38	6.7	12.5	12.5	18	5	10	10.5	15
DIL0MK	38	8.5	16.7	20	24	8.3	14	19	20
DIL1MK	38	15	25	33.3	36	12	21	27	30
DIL2MK	38	20	33.3	44	48	17.5	30	40	44
DIL2MKV	38	25	40	44	–	23.3	37.5	40	–
DIL3MK72	40	30	50	60	75	28	47	60	75
DIL3M80	76	25	50	60	30	21	42	51	25
DIL4M115	24	30	60	66	40	25	51	56	34
DILM185	30	66	115	145	115	–	–	–	–
DILM300	30	85	150	195	150	–	–	–	–
DILM500	30	145	250	333	250	–	–	–	–

Notes

Use of DILM contactors without series resistor for group compensation

When using contactors for group compensation, a minimum inductance of approx. 6 µH per capacitor must be available to limit the high inrush current peaks. This corresponds to an air-cored coil with 5 windings and a coil diameter of approximately Ø 140 mm. The conductor cross-section must be selected according to the rated current per phase.

Through the use of EWDIL quick-discharge resistors, the danger of complete polarity reversal in the event of rapidly recurring closure can be excluded. The resultant make times are 0.2 s. The resistor is switched by means of two auxiliary contacts of the contactor.

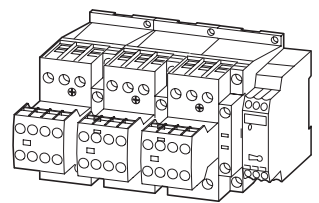
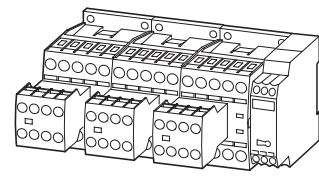
a 5/58



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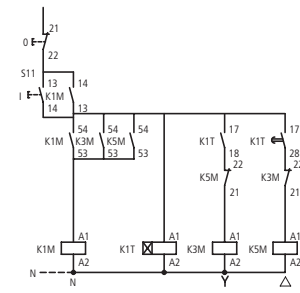
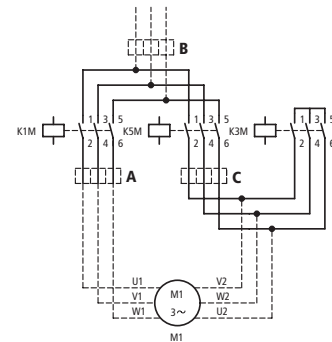
Rated operational current	Max. rating for three-phase motors 50 – 60 Hz						Max. changeover time	Type Article no.	Price See Price List	Std. pack
	AC-3	AC-3	AC-3	AC-3	AC-3	AC-3				
380 V 400 V	220 V 230 V	380 V 400 V	500 V	660 V 690 V	1000 V					
I_e	P	P	P	P	P					
A	kW	kW	kW	kW	kW	s				

Star-delta combination



12	3	5.5	5.5	5.5	–	< 20	SDAINLM12(230V50HZ) 278286	1 off
16	4	7.5	7.5	7.5	–	< 20	SDAINLM16(230V50HZ) 278311	
22	5.5	11	11	11	–	< 20	SDAINLM22(230V50HZ) 278336	
30	7.5	15	18.5	18.5	–	< 20	SDAINLM30(230V50HZ) 278361	
45	11	22	30	22	–	< 20	SDAINLM45(230V50HZ) 278386	
55	15	30	37	30	–	< 20	SDAINLM55(230V50HZ) 278411	

Notes



Overload relay settings

- A:** $I_N \times 0.58$
Motor protection in the Y and Δ configurations
- B:** $I_N \times 1$
Only partial motor protection in star position
- C:** $I_N \times 0.58$
Motor not protected in star position

Timing relay set to approx. 10 s

Main circuit:

Depending on the coordination type required (i.e. Type "1" or Type "2") it must be established whether the fuse protection and the input wiring for the mains contactor and delta contactor are to be common or separate.

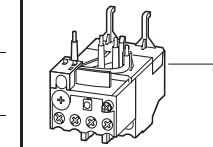
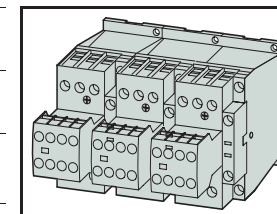
Starting

- ≤ 15 s
- 15 – 40 s
- > 40 s

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Individual components of the combination				Spare auxiliary contacts			Notes
K1M mains contactor	K5M delta contactor	K3M star contactor	K1T timing relay	K1M	K3M	K5M	
Type	Type	Type	Type				

DILM7-10 + DILA-XHI20	DILM7-01 + DILA-XHI20	DILM7-01 + DILA-XHI20	ETR4-51			
DILM9-10 + DILA-XHI20	DILM9-01 + DILA-XHI20	DILM9-01 + DILA-XHI20	ETR4-51			
DILM12-10 + DILA-XHI20	DILM12-01 + DILA-XHI20	DILM12-01 + DILA-XHI20	ETR4-51			
DILM17-10 + DILA-XHI20	DILM17-01 + DILA-XHI20	DILM17-01 + DILA-XHI20	ETR4-51			
DILM25-10 + DILA-XHI20	DILM25-01 + DILA-XHI20	DILM17-01 + DILA-XHI20	ETR4-51			
DILM32-10 + DILA-XHI20	DILM32-01 + DILA-XHI20	DILM25-01 + DILA-XHI20	ETR4-51			



Accessories

- 1 Overload relay
- Accessories
- Further actuating voltages

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Max. rating for three-phase motors 50 – 60 Hz					Max. changeover time ¹⁾
AC-3					
220 V	380 V	500 V	660 V	1000 V	
230 V	400 V		690 V		
240 V	440 V				
<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	s
kW	kW	kW	kW	kW	

AC operation

Type Article no. Price See Price List

Std. pack

Star-delta starter combinations

Operating frequency:
30 starts/hour

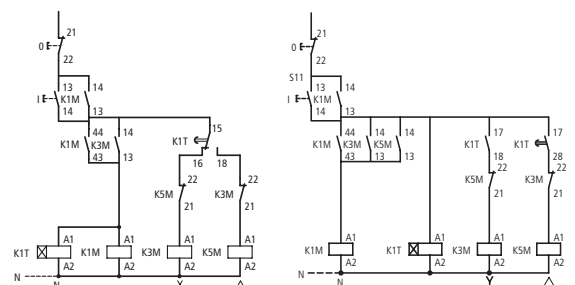
	4	5.5	5.5	–	–	30		1 off
							SDAINLEM(230V50HZ) ²⁾ 051840	
		7.5	11	–	–	30	SDAINL00AM(230V50HZ) ³⁾ 047086	
	5.5	12.5	15	–	–	30	SDAINL0M(230V50HZ) ³⁾ 047097	
	7.5	18.5	22	–	–	30	SDAINL0AM(230V50HZ) ³⁾ 047108	
	11	22	30	–	–	30	SDAINL1M(230V50HZ) ³⁾ 047119	
	15	30	37	–	–	30	SDAINL1AM(230V50HZ) ³⁾ 047130	
	22	37	45	–	–	30	SDAINL2M(230V50HZ) ³⁾ 047141	
	30	55	65	–	–	30	SDAINL2AM(230V50HZ) ³⁾ 047152	
	37	65	75	90	–	20	SDAINL3M125(230V50HZ) ³⁾ 215369	
	45	75	90	110	–	20	SDAINL3AM150(230V50HZ) ³⁾ 215384	
	55	90	110	132	75	30	SDAINL4M180(230V50HZ) ³⁾ 215399	
	75	132	132	200	90	30	SDAINL4AM250(230V50HZ) ³⁾ 215414	

Notes

¹⁾ For longer changeover times, please enquire

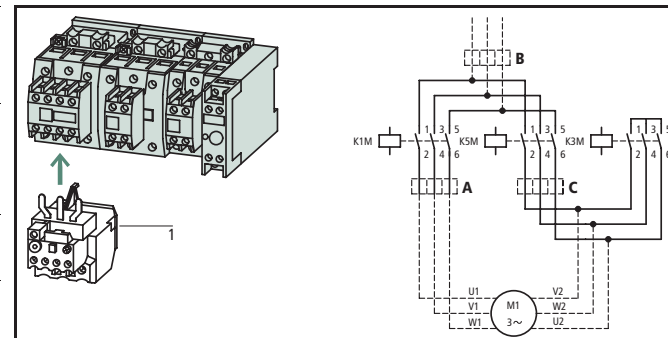
²⁾

³⁾



Individual components of the combination				Spare auxiliary contacts		Notes
K1M mains contactor	K5M delta contactor	K3M star contactor	K1T timing relay	K1M	K5M	
Type	Type	Type	Type			

DILEM-10 + 22DILEM	DILEM-01	DILEM-10 + 02DILEM	DILET		–	
DIL00AM + 31DILM	DIL00AM + 22DILM	DIL00M + 11DILM	ETR4-51			
DIL0M + 31DILM	DIL0M + 22DILM	DIL00M + 11DILM	ETR4-51			
DIL0AM + 31DILM	DIL0AM + 22DILM	DIL0M + 11DILM	ETR4-51			
DIL1M + 31DILM	DIL1M + 22DILM	DIL0M + 11DILM	ETR4-51			
DIL1AM + 31DILM	DIL1AM + 22DILM	DIL0AM + 11DILM	ETR4-51			
DIL2M + 31DILM	DIL2M + 22DILM	DIL0AM + 11DILM	ETR4-51			
DIL2AM + 31DILM	DIL2AM + 22DILM	DIL2M + 11DILM	ETR4-51			
DIL3M80/22	DIL3M80/22	DIL2AM + 11DILM	ETR4-51			
DIL3AM85/22	DIL3AM85/22	DIL2AM + 11DILM	ETR4-51			
DIL4M115/22	DIL4M115/22	DIL3AM85 + DILM820-XHI11-SI	ETR4-51			
DIL4AM145/22	DIL4AM145/22	DIL3AM85 + DILM820-XHI11-SI	ETR4-51			



Accessories	Page	Overload relay settings	Starting
1 Overload relay	a 6/9	A: $I_N \times 0.58$	≤ 15 s
Accessories	a 5/54	Motor protection in the Y and Δ configurations	
Other actuating voltages	a 5/80	B: $I_N \times 1$	15 – 40 s
		Only partial motor protection in star position	
		C: $I_N \times 0.58$	> 40 s
		Motor not protected in star position	
		Timing relay set to approx. 10 s	

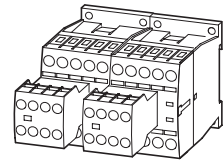
Main circuit:
Depending on the coordination type required (i.e. Type "1" or Type "2") it must be established whether the fuse protection and the input wiring for the mains contactor and delta contactor are to be common or separate.

Moeller HPL0211-2004/2005

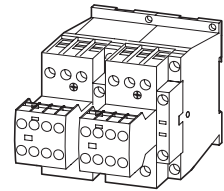
Moeller HPL0211-2004/2005

Rated operational current	Max. rating for three-phase motors 50 – 60 Hz						AC operation Type Article no.	Price See Price List	Std. pack
	AC-3			AC-4					
	220/230 V	380/400 V	660 V 690 V	220/230 V	380/400 V	660 V 690 V			
I_e	P	P	P	P	P	P			
A	kW	kW	kW	kW	kW	kW			

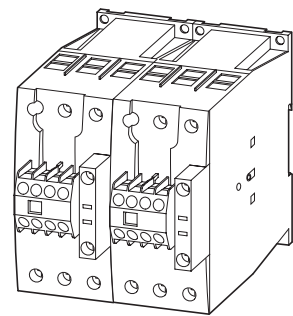
Reversing contactors



7	2.2	3	3.5	1	2.4	2.9	DIULM7/21(230V50HZ) 278061	1 off
9	2.5	4	4.5	1.5	2.5	3.6	DIULM9/21(230V50HZ) 278086	
12	3.5	5.5	6.5	2	3	4.4	DIULM12/21(230V50HZ) 278111	



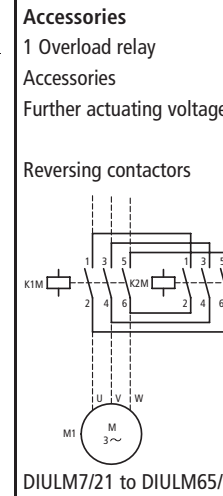
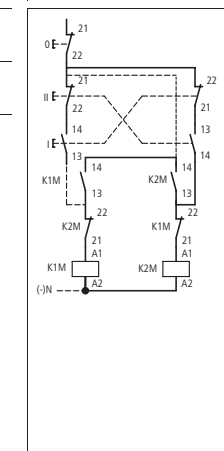
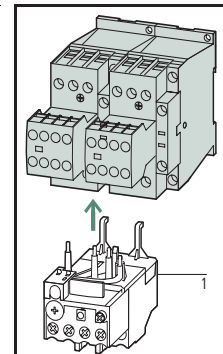
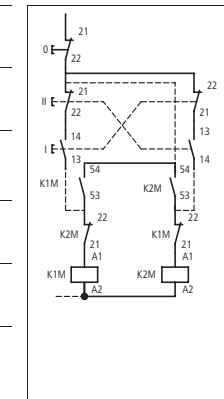
18	5	7.5	11	2.5	4.5	6.5	DIULM17/21(230V50HZ) 278136	1 off
25	7.5	11	14	3.5	6	8.5	DIULM25/21(230V50HZ) 278161	
32	10	15	17	4	7	10	DIULM32/21(230V50HZ) 278186	



40	12.5	18.5	23	5	9	12	DIULM40/11(230V50HZ) 278211	1 off
50	15.5	22	30	6	10	14	DIULM50/11(230V50HZ) 278236	
65	20	30	35	7	12	17	DIULM65/11(230V50HZ) 278261	

Individual components of the combination	Spare auxiliary contacts			Mechanical interlock	Notes
	Contactor K1M	Contactor K2M	K1M K2M		
Type	Type				Availability of DIULM40/21 to DIULM65/21: from December 2004

DILM7-01 + DILA-XHI20	DILM7-01 + DILA-XHI20			+
DILM9-01 + DILA-XHI20	DILM9-01 + DILA-XHI20			+
DILM12-01 + DILA-XHI20	DILM12-01 + DILA-XHI20			+
DILM17-01 + DILA-XHI20	DILM17-01 + DILA-XHI20			+
DILM25-01 + DILA-XHI20	DILM25-01 + DILA-XHI20			+
DILM32-01 + DILA-XHI20	DILM32-01 + DILA-XHI20			+
DILM40 + DILM150-XHI11	DILM40 + DILM150-XHI11	-	-	+
DILM50 + DILM150-XHI11	DILM50 + DILM150-XHI11	-	-	+
DILM65 + DILM150-XHI11	DILM65 + DILM150-XHI11	-	-	+



Accessories
 1 Overload relay
 Accessories
 Further actuating voltages

Reversing contactors

DIULM7/21 to DIULM65/11 with mechanical interlock



Max. rating for
three-phase motors 50 – 60 Hz

AC-3			AC-4		
220 V	380 V	660 V	220 V	380 V	660 V
230 V	400 V	690 V	230 V	400 V	690 V
240 V	440 V		240 V	440 V	
P	P	P	P	P	P
kW	kW	kW	kW	kW	kW

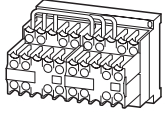
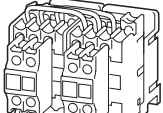
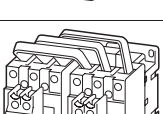
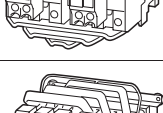
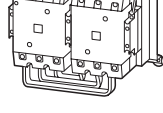






AC operation

Type
Article no.

Price
See Price List

Std. pack

Reversing contactors

	1.5	3	3	1.1	2.2	2.2	DIULEEM/21/MV(230V50HZ) 051664	1 off
	2.2	4	4	1.5	3	3	DIULEM/21/MV(230V50HZ) 051849	
	3	5.5	–	2.2	4	–	DIUL00AM/11(230V50HZ) 047215	
	4	7.5	–	3	5.5	–	DIUL0M/11(230V50HZ) 047226	
	5.5	11	–	4	7.5	–	DIUL0AM/11(230V50HZ) 047237	
	11	18.5	–	7.5	15	–	DIUL1AM/11(230V50HZ) 047248	
	18.5	30	–	15	22	–	DIUL2AM/11(230V50HZ) 047259	
	22	37	55	18.5	30	45	DIUL3M80/11(230V50HZ) 209807	
	25	45	75	22	37	45	DIUL3AM85/11(230V50HZ) 209822	
	37	55	90	26	45	55	DIUL4M115/11(230V50HZ) 209837	
	45	75	110	30	55	75	DIUL4AM145/11(230V50HZ) 209852	

Individual components of the combination

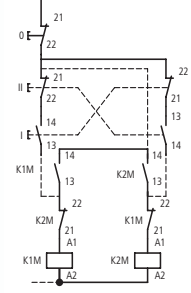







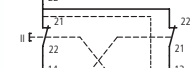
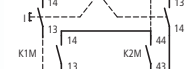
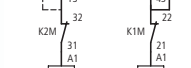
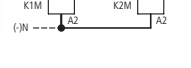



Spare auxiliary contacts

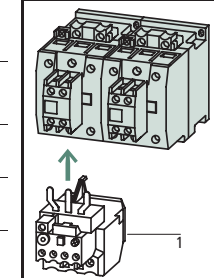
Notes

Contactor K1M Contactor K2M K1M K2M Mechanical interlock

Type

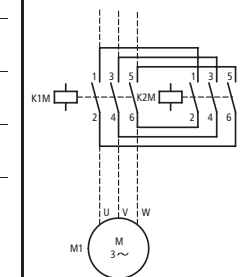
Type

	DILEEM-10 + 11DILEM	DILEEM-10 + 11DILEM			+
	DILEM-10 + 11DILEM	DILEM-10 + 11DILEM			+
	DILO0AM + 11DILM	DILO0AM + 11DILM	–	–	–
	DILOM + 11DILM	DILOM + 11DILM	–	–	–
	DILOAM + 11DILM	DILOAM + 11DILM	–	–	–
	DIL1AM + 11DILM	DIL1AM + 11DILM	–	–	–
	DIL2AM + 11DILM	DIL2AM + 11DILM	–	–	–
	DIL3M80 + DILM820-XHI11-SI	DIL3M80 + DILM820-XHI11-SI	–	–	+
	DIL3AM85 + DILM820-XHI11-SI	DIL3AM85 + DILM820-XHI11-SI	–	–	+
	DIL4M115 + DILM820-XHI11-SI	DIL4M115 + DILM820-XHI11-SI	–	–	+
	DIL4AM145 + DILM820-XHI11-SI	DIL4AM145 + DILM820-XHI11-SI	–	–	+




































Accessories
1 Overload relay
Accessories
Further actuating voltages

Page
a 6/9
a 5/54
a 5/83



Components for self-assembly of star-delta combinations

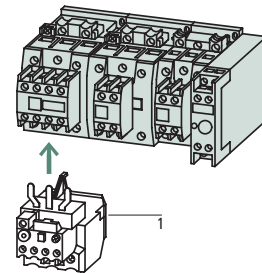
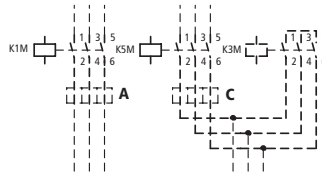
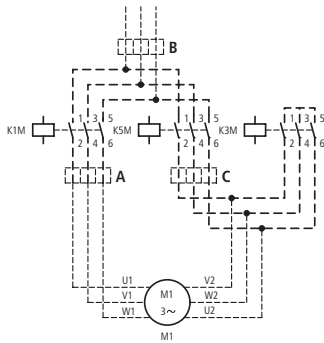
Max. rating for three-phase motors
50 – 60 Hz

AC-3					Max. changeover time ¹⁾			Individual components of the combination				Spare auxiliary contacts		
230 V	400 V	500 V	690 V	1000 V	Up to 12 s	Up to 20 s	Up to 30 s	Coil to EN 50005 Contact elements to EN 50005 and EN 50012				K1M	K5M	K3M
kW	kW	kW	kW	kW				K1M mains contactor	K5M delta contactor	K3M star contactor	K1T timing relay			
90	160	200	250	132	K	K	K	M185/22	M185/22	4M115/22	ETR4-51			
110	200	250	315	160	K	K	⊘	M225/22	M225/22	4AM145/22	ETR4-51			
132	250	315	400	200	K	K	K	M250/22	M250/22	M185/22	ETR4-51			
160	300	355	450	200	K	K	K	M300/22	M300/22	M185/22	ETR4-51			
200	355	450	560	220	K	K	⊘	M400/22	M400/22	M250/22	ETR4-51			
250	450	560	600	220	K	K	K	M500/22	M500/22	M300/22	ETR4-51			
300	560	710	900	355	K	K	K	M580/22	M580/22	M400/22	ETR4-51			
350	630	750	950	355	K	K	K	M650/22	M650/22	M400/22	ETR4-51			
400	710	900	1200	1400	K	K	K	M750/22	M750/22	M580/22	ETR4-51			
450	800	950	1300	1400	K	K	K	M820/22	M820/22	M580/22	ETR4-51			
560	1000	1200	1700	1700	K	K	–	M1000/22	M1000/22	M650/22	ETR4-51			

Notes

¹⁾ For longer changeover times, please enquire





Overload relay settings

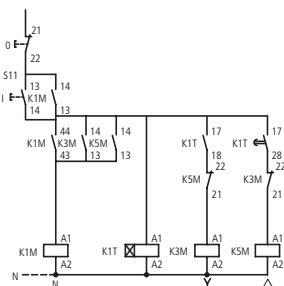
I_N	Starting
$A \times 0.58$ Protection of the motor in Y and Δ configuration	≤ 15 s
$B \times 1$ Only partial motor protection in Y configuration	15 – 40 s
$C \times 0.58$ No motor protection in Y configuration	> 40 s

Accessories

Page

1 Overload relay
Accessories






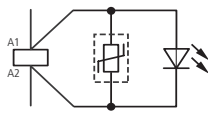
a 6/11
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Timing relay set to approx. 10 s




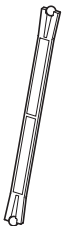
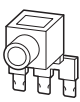
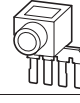





Main circuit:
Depending on the coordination type required (i.e. type "1" or type "2") it must be established whether the fuse protection and the input wiring for the mains contactor and delta contactor are to be common or separate.

Control circuit:
If the combinations are used in the scope of the IEC/EN 60 204-1, VDE 0113 part 1, point 9.1.1 regarding the supply of control circuits is to be observed.


















Voltage	For use with	Contact sequence	Type Article no.	Price See Price List	Std. pack	Notes
V						
Suppressors						
RC suppressors						
	24 – 48	DILM7 – DILM12 DILMP20		DILM12-XSPR48 281199	10 off	For AC operated contactors, 50/60 Hz DC operated contactors have an integrated suppressor Note drop-out delay Availability of DILM95-XSPR: from December 2004
	110 – 240			DILM12-XSPR240 281200		
	240 – 500			DILM12-XSPR500 281201		
	24 – 48	DILM17 – DILM32		DILM32-XSPR48 281202		
	110 – 240			DILM32-XSPR240 281203		
	240 – 500			DILM32-XSPR500 281204		
	24 – 48	DILM40 – DILM65		DILM95-XSPR48 281205		
	110 – 240			DILM95-XSPR240 281206		
	240 – 500			DILM95-XSPR500 281207		
Varistor suppressors						
	24 – 48	DILM7 – DILM12 DILMP20		DILM12-XSPV48 281208	10 off	For AC operated contactors, 50/60 Hz DC operated contactors have an integrated suppressor. Note drop-out delay Availability of DILM95-XSPV: from December 2004
	48 – 130			DILM12-XSPV130 281209		
	130 – 240			DILM12-XSPV240 281210		
	240 – 500			DILM12-XSPV500 281211		
	24 – 48	DILM17 – DILM32		DILM32-XSPV48 281212		
	48 – 130			DILM32-XSPV130 281213		
	130 – 240			DILM32-XSPV240 281214		
	240 – 500			DILM32-XSPV500 281215		
	24 – 48	DILM40 – DILM65		DILM95-XSPV48 281216		
	48 – 130		DILM95-XSPV130 281217			
	130 – 240		DILM95-XSPV240 281218			
	240 – 500		DILM95-XSPV500 281219			
Varistor suppressor with integrated LED						
	24 – 48	DILM7 – DILM12 DILMP20		DILM12-XSPVL48 281220	10 off	For AC operated contactors, 50/60 Hz DC operated contactors have an integrated suppressor. Note drop-out delay Availability of DILM95-XSPVL: from December 2004
	130 – 240			DILM12-XSPVL240 281221		
	24 – 48	DILM17 – DILM32		DILM32-XSPVL48 281222		
	130 – 240			DILM32-XSPVL240 281223		
	24 – 48	DILM40 – DILM65		DILM95-XSPVL48 281224		
	130 – 240			DILM95-XSPVL240 281225		





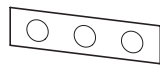
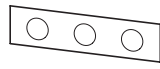
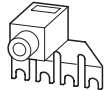

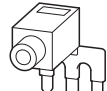

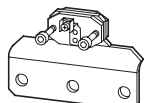
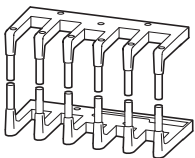

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For use with	Type Article no.	Price See Price List	Std. pack	Notes
Connector				
 DILM7 – DILM32	DILM32-XVB 281227		50 off	For mechanically arranging contactors in combinations. Distance between contactors 0 mm Availability of DILM150-XVB: from December 2004
 DILM40 – DILM65	DILM150-XVB 281226		50 off	
Mechanical interlock				
 DILM7 – DILM12 DILMP20	DILM12-XMV 281196		5 off	For two contactors with AC or DC operated magnet system which are horizontally or vertically mounted, distance between contactors 0 mm Mechanical lifespan 2.5×10^6 operations Additional auxiliary contact modules possible a page 5/22
 DILM17 – DILM32	DILM32-XMV 281197		5 off	Availability of DILM65-XMV: from December 2004
DILM40 – DILM65	DILM65-XMV 281198		1 off	
Paralleling link				
 DILM7 – DILM12	DILM12-XP1 281193		5 off	4th pole can be broken off 4-pole: $I_{th} = 60$ A open 3-pole: $I_{th} = 50$ A open AC-1 current carrying capacity of the open contactor increases by a factor of 2.5. Protected against accidental contact in accordance with IEC 536. Terminal capacity for DILM...XP1 a Technical data
 DILM17 – DILM32	DILM32-XP1 281194		5 off	
- DILM40 – DILM65	DILM65-XP1 281195		1 off	
Star-point bridges				
 DILM7 – DILM12	DILM12-XS1 281190		20 off	Availability of DILM12-XS1 with tool-less plug connection: from December 2004 Availability of DILM65-XS1: from December 2004
DILM17 – DILM32	DILM32-XS1 281191		20 off	
DILM40 – DILM65	DILM65-XS1 281192		10 off	
Star-delta wiring kits				
Main current wiring for star-delta combination including star-point bridge				Availability: from December 2004
 DILM7/9/12 mains contactor DILM7/9/12 delta contactor DILM7/9/12 star contactor	DILM12-XSL 283130		1 off	The following control cables are integrated in addition to electrical interlock: • K3M: A1 – K5M: 21 • K3M: 21 – K5M: A1 • K3M: A2 – K5M: A2
 DILM17/25/32 mains contactor DILM17/25/32 delta contactor DILM17/25/32 star contactor	DILM32-XSL 283131		1 off	
Reversing starter wiring kits				
Main current wiring for reversing combination				Availability: from December 2004
 DILM7/9/12 mains contactor DILM7/9/12 delta contactor DILM7/9/12 star contactor	DILM12-XRL 283108		1 off	The following control cables are integrated in addition to electrical interlock: • K1M: A1 – K2M: 21 • K1M: 21 – K2M: A1 • K1M: A2 – K2M: A2
 DILM17/25/32 mains contactor DILM17/25/32 delta contactor DILM17/25/32 star contactor	DILM32-XRL 283109		1 off	

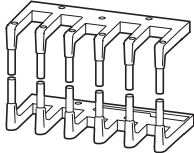



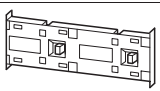
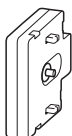
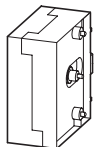
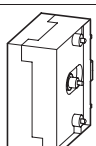


	Voltage V	For use with	Circuit- symbol	Type Article no.	Price See Price List	Std. pack		
Suppressor								
RC suppressor								
	24 – 48	DILEEM, DILEM		RCDILE48 044264		10 off	For AC operated contactors, 50/60 Hz Note drop-out delay	
	110 – 250	DILEEM, DILEM		RCDILE250 046320				
	24 – 48	DILEEM...-C DILEM...-C		RCDILE48-C 230267				
	110 – 250	DILEEM...-C DILEM...-C		RCDILE250-C 230268				
	24 – 48	DIL00(A)M, DIL00BM, DIL0(A)M, DIL1(A)M, DIL2(A)M		RCBDIL48 067345				
	110 – 250			RCBDIL250 069718				
	380 – 415			RCBDIL415 072091				
	24 – 48	DIL3M80, DIL3AM85, DIL4M115, DIL4AM145		RCSLIL48 071577				
	110 – 250			RCSLIL250 071613				
	380 – 415			RCSLIL415 071614				
Varistor suppressors								
	24 – 48	DILEEM DILEM		VGDILE48 010320		10 off	For AC operated contactors, 50/60 Hz DC operated contactors have an integrated suppressor	
	110 – 250			VGDILE250 010336				
	380 – 415			VGDILE415 010463				
	24 – 48	DILEEM-C DILEM-C		VGDILE48-C 230265				
	110 – 250	DILEEM-C DILEM-C		VGDILE250-C 230266				
	12 – 24	DIL00(A)M, DIL00BM, DIL0(A)M, DIL1(A)M, DIL2(A)M, DIL3M80, DIL3AM85, DIL4M115, DIL4AM145		VGBDIL24 076837				
	24 – 48	DIL00(A)M, DIL00BM DIL0(A)M, DIL1(A)M DIL2(A)M		VGBDIL48 071609			For AC operated contactors 50/60 Hz (DIL00M to DIL4AM145) and DC operated contactors (DIL00M-G to DIL2AM-G), DC operated contactors DIL3M80 to DIL4AM145 have an integrated suppressor circuit (varistor) as standard	
	110 – 250			VGBDIL250 071610				
	380 – 415			VGBDIL415 071611				
	12 – 24	DIL00(A)M, DIL00BM		VGCDIL24 211018			For DC operated and AC operated contactors DIL00M to DIL2AM, Suitable for combination with MVS wiring kits	
	24 – 48	DIL0(A)M, DIL1(A)M DIL2(A)M		VGCDIL48 211019				
	110 – 250			VGCDIL250 211020				
	380 – 415			VGCDIL415 211021				
	Free-wheel diode suppressor							
		12 – 250	DIL00(A)M, DIL00BM, DIL0(A)M, DIL1(A)M, DIL2(A)M		FDBDIL 074464		10 off	For DC operated contactor relays Note drop-out delay

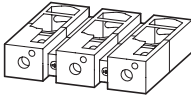

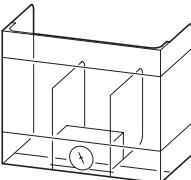






	For use with	Contact sequence	Type Article no.	Price See Price List	Std. pack		
Star-point bridges							
	DILEEM, DILEM		S1DILEM 220218		20 off	Protected against direct contact in accordance with IEC 536	
	DIL00(A)M		S1DIL00M 027130				
	DIL0(A)M		S1DIL0M 029503				
	DIL1(A)M		S1DIL1M 031876		10 off		
	DIL2(A)M		S1DIL2M 034249		10 off		
	DIL3M80, DIL3AM85		S1DIL3M 050735		5 off		
	DIL4M115, DIL4AM145		S1DIL4M 071575		5 off		
	DILM185 – DILM400		DILM400-XS1 208291		1 off	One shroud included for protection against accidental contact.	
	DILM500		DILM500-XS1 208290		1 off	One shroud included for protection against accidental contact.	
Paralleling link							
Consisting of 2 paralleling links							
Set of paralleling links for main contacts							
4-pole			P1DILEM 019095		5 off	4th pole can be broken off 4-pole: $I_{th} = 60$ A open 3-pole: $I_{th} = 50$ A open AC-1 current carrying capacity of the open contactor increases by a factor of 2.5. Protected against accidental contact in accordance with IEC 536.	
			DIL00(A)M	P1DIL00M 081583			5 off
3-pole			P1DIL0M 083956		2 off	AC-1 current carrying capacity of the open contactor increases by a factor of 2.5. Protected against accidental contact in accordance with IEC 536.	
			DIL1(A)M	P1DIL1M 086329			1 off
			DIL2(A)M	P1DIL2M 088702			
			DIL3M80, DIL3AM85	P1DIL3M 050688			
			DIL4M115, DIL4AM145	P1DIL4M 071576			
3-pole			DILM185-XP1 208292			AC-1 current carrying capacity of the open contactor increases by a factor of 2.5. One shroud included for protection against accidental contact.	
Star-delta wiring kits							
Main current wiring for star-delta combination including star-point bridge							
 	DILE(E)M mains contactor DILE(E)M delta contactor DILE(E)M star contactor		MVS-SB-EM 220213		1 off	The following control cables are integrated in addition to electrical interlock: • K3M: A1 – K5M: 21 • K3M: 21 – K5M: A1 • K3M: A2 – K5M: A2 When combined with overload relay use separate mounting.	
	DIL00(A)M mains contactor DIL00(A)M delta contactor DIL00(A)M star contactor		MVS-SB-00M 220214				
	DIL0(A)M mains contactor DIL0(A)M delta contactor DIL0(A)M star contactor		MVS-SB-0M 220215				
	DIL0(A)M mains contactor DIL0(A)M delta contactor DIL0(A)M star contactor		MVS-SB-0AM 220216				
	DIL1(A)M mains contactor DIL1(A)M delta contactor DIL0(A)M star contactor		MVS-SB-1M 220217				




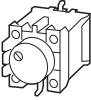



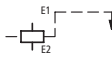
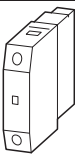



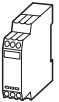



For use with	Type Article no.	Price See Price List	Std. pack	
Reversing starter wiring kits				
Main current wiring for reversing combinations				
	DILE(E)M (+MVDILEM)	MVS-WB-EM 220209	1 off	The following control cables are integrated in addition to electrical interlock: <ul style="list-style-type: none"> • K1M: A1 – K2M: 21 • K1M: 21 – K2M: A1 • K1M: A2 – K2M: A2 When combined with overload relay use separate mounting.
	DIL00(A)M	MVS-WB-00M 220210		The following connection is also integrated: <ul style="list-style-type: none"> • K1M: A2 – K2M: A2 When combined with overload relay use separate mounting.
	DIL00(A)M+MVDILM	MVS-WB5MV 215512		
	DIL0(A)M	MVS-WB-0M 220211		
	DIL0(A)M+MVDILM	MVS-WB11MV 216344		
	DIL1(A)M	MVS-WB-1M 220212		
Paralleling link				
Consisting of 2 paralleling links				
For auxiliary contacts				
	DILE, DILR, ...DIL... ...DILE...	BT480 052785	100 off	Not protected against accidental contact in accordance with IEC 536.
Set of adapters				
For connecting cross-sections with cable lug Consisting of 6 adapters including 2 terminal covers				
For cable lug connection				
	DIL3M80, DIL3AM85	AKDIL3M 050834	1 off	–
	DIL4M115, DIL4AM145	AKDIL4M 071574	1 off	–
Mechanical interlocks				
	DILEEM(-C) DILEM(-C)	MVDILE 010113	5 off	For two contactors with AC or DC operated magnet system which are horizontally or vertically mounted, distance between contactors 0 mm, mechanical lifespan 2.5×10^6 operations. Additional auxiliary contact modules can be fitted
	DIL00(A)M(-C) DIL00BM, DIL0(A)M, DIL1(A)M, DIL2(A)M	MVDILM 060226	5 off	For contactors with the same or a different size, but with the same magnet system and mounted horizontally or vertically, distance between contactors 15 mm, mechanical lifespan 5×10^6 operations
	DIL3M80, DIL3AM85, DIL4M115, DIL4AM145, DILM185, DILM225, DILM250, DILM300, DILM400, DILM500	DILM500-XMV 208289	1 off	For two contactors with the same or different magnet system which are horizontally or vertically mounted, mechanical lifespan 5×10^6 operations, between mechanical interlock and contactor no auxiliary contact possible. Combination with adjacent sizes only (DIL3... -DIL4... or DILM(C)185... -DILM(C)500) Distance between contactors: DIL3M80-4AM145 10 mm DILM(C)185-M(C)500 15 mm
	DILM580, DILM650 DILM750, DILM820, DILM1000	DILM820-XMV 208288	1 off	For two contactors with the same or different magnet system which are horizontally or vertically mounted, mechanical lifespan 5×10^6 operations, between mechanical interlock and contactor no auxiliary contact possible. DILM820-XMV consists of interlock element and mounting plate.

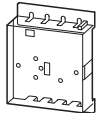

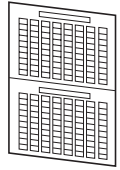
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
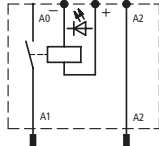

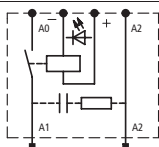
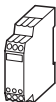
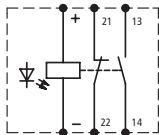
For use with	Type Article no.	Price See Price List	Std. pack	
Cable terminal block				
With control circuit terminal				
	DILM185 DILM225	DILM225-XKU-S 208294	1 off	For connection of: round conductor, flexible and stranded, flat strip conductor Terminal capacity a Technical data
	DILM250 DILM300 DILM400	DILM400-XKU-S 208293	1 off	
Flat strip conductor terminal kit				
With control circuit terminal (consisting of 3 flat strip conductor terminals)				
	DILM500 DILM580 DILM650	DILM650-XKB-S 208296	1 off	For connection of: flat strip conductor Terminal capacity, a Technical data
	DILM750 DILM820	DILM820-XKB-S 208295	1 off	
Extension terminals				
	DIL0(A)M	ZKDIL0M 019229	10 off	Can be fitted to the main terminal of the contactor, For connection of: max. 2 × 4 mm ² solid or 2 × 2.5 mm ² flexible with ferrule
	DIL1(A)M DIL2(A)M	ZKDIL1M 021602		
	DIL3M80 DIL3AM85 DIL4M115 DIL4AM145	ZKDILM 051138		
Main terminal				
For connecting large cross-sections				
	DIL1(A)M DIL2(A)M	HKDILM 097762	10 off	For connecting large cross-sections. For connection of: max. 50 mm ² stranded or 35 mm ² flexible with ferrule
Covers				
Terminal cover				
	DILM185 DILM225 DILM250 DILM300 DILM400	DILM400-XHB 208287	1 off	Protection against direct contact with connection lugs when touched vertically from the front
	DILM500	DILM500-XHB 208286		
	DILM580 DILM650	DILM650-XHB 208285		
	DILM750 DILM820 DILM1000	DILM820-XHB 208284		
Connector				
For mechanically arranging contactors and timing relays in combinations				
	DILE(E)M(-C)	VODILE 026634	50 off	0 mm distance between contactors
	DIL00(A)M(-C) DIL00BM DIL0(A)M DIL1(A)M DIL2(A)M	VODIL 010772	20 off	0 mm distance between contactors
	DIL00(A)M(-C) DIL00BM DIL0(A)M DIL1(A)M DIL2(A)M	V5/15DIL 013145	10 off	5 mm distance between contactors for use with DC operated contactors 15 mm distance between contactors for mechanical interlock between two contactors
	DIL00(A)M(-C) DIL00BM DIL0(A)M DIL1(A)M DIL2(A)M	V10/A5DIL 015518	10 off	10 mm distance between contactors for a side mounting auxiliary contact between two contactors 5 mm distance between contactors for DC operated contactors without permanent connection



For use with	Contact sequence	Type Article no.	Price See Price List	Std. pack	
Screw adapter					
For screw fixing					
	EWDIL ETS4-VS3 ETR4	CS-TE 095853		1 off	
Pneumatic timer modules					
on-delayed					
	DIL00M(C) – DIL2AM		TPE11DIL 002279	1 off	Switching times 0.2 – 30 s and 20 – 180 s Conventional free-air thermal current 10 A. Timer modules with TÜV approval for furnaces a 4/31
OFF-delayed					
	DIL00M(C) – DIL2AM		TPD11DIL 002280	1 off	
Mechanical latching modules					
	DIL00M(-C)		V-GDIL(24VDC) 048562	1 off	Pulse duration: 200 ms Other actuating voltages a 5/73
	DIL00M(-C)		VDIL(230V50HZ,240V60HZ) 043825	1 off	DF: 100% Other actuating voltages a 5/73
4th pole					
Only for AC-1 load, up to 2 auxiliary contacts can be fitted					
	DIL0M		NDIL0M 062006	1 off	I_e AC-1 open/enclosed 35 A/30 A
	DIL1M		NDIL1M 060243		I_e AC-1 open/enclosed 55 A/44 A
	DIL2M		NDIL2M 060264		I_e AC-1 open/enclosed 75 A/60 A
Blade terminal, DIN 46 244					
For auxiliary contact and coil connections, when using insulated ferrules DIN 46245 1 × 6.3 × 0.8 or 2 × 2.8 × 0.8 mm					
	DILEM, DIL00M to DILM1000	–	BT483 059904	100 off	
	DIL3M80 to DILM1000	–	BT2571 062276	100 off	
Quick-discharge resistor					
For capacitors up to a rated voltage of 525 V, Resistor 2 × 150 Ohm					
	DIL00M(K) – DIL2M(KV), DIL3MK72, DIL3M80 – DIL4AM145	–	EWDIL 085918	1 off	Order extension terminals separately: DIL0(A)M r 3 off ZKDIL0M DIL1(A)M r 3 off ZKDIL1M DIL2(A)M r 3 off ZKDIL1M DIL3M80 r 3 off ZKDILM DIL3MK72 r 3 off ZKDILM a 5/57
Front plates					
For blanking off the auxiliary contact module fitting location on basic contactor units, and for component labelling. Minimum order quantity: 10 off					
	DILR(-G), DIL00(A)M(-G), DIL0(A)M(-G)	–	HDIL00M 093665	10 off	–

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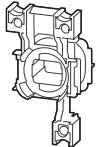
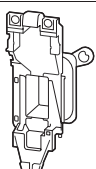
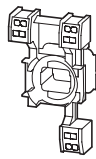
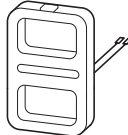
	Dimensions (W × H × D) mm	For use with	Type Article no.	Price See Price List	Std. pack	
Sealable shrouds						
Transparent						
	–	DILEEM, DILEM	HDILE 010482		1 off	Snap-fitting on contactor relay. For use with open-type contactor relays or in service distribution boards Degree of protection: IP40 front
	–	TPE(H)11DIL, TPD(H)11DIL	PL-DILT 036073		5 off	For screw fixing on the timer block and sealing
Component labelling						
Sheet of labels						
	7.5 × 17 mm Colour: yellow HKS 3 (≈ RAL 1018)	Inscription using laser printer, plotter, marker pen, copier	XGKE-GE 207517		25 off	1 off = 1 sheet 240 labels per sheet 1 sheet = DIN A4, Can be split into two DIN A5 sheets

	Rated operational current		Actuating voltage	Actuating current	Contact sequence	For use with	Type Article no.	Price See Price List	Std. pack	
	AC-15	DC								
	240 V	415 V	220 V							
	I_e	I_e	I_e	U_s	I					
	A	A	A	V DC	mA					
Amplifier modules										
Plug-in type Can be mounted directly										
	1.5	1	0.21 ¹⁾	24	25		DIL00(A)M, DIL0(A)M, DIL1(A)M, DIL2(A)M	VS1DIL 055480	1 off	Contactor coils with rated operational currents > 2 A must be energized via the DILER-G mini contactor relay.
	1.5	1	0.21 ¹⁾	24	25		DIL00(A)M, DIL0(A)M, DIL1(A)M, DIL2(A)M	VS2DIL 057853	1 off	
	2	2	0.03 ²⁾	24	25		As required	ETS4-VS3 083094	1 off	
Separate mounting Input with integrated suppressor for overvoltage limit										

Notes

- ¹⁾ Rated operational current DC:
Making and breaking conditions DC-13, time L/R 300 ms
- ²⁾ Rated operational current DC:
Making and breaking conditions DC-11, time L/R 300 ms



Connection For use with types		AC operation Type Article no.	Price See Price List	DC operation Type Article no.	Price See Price List	Std. pack
Individual coils						
	Screw terminals	DIL00(A)M	J-DIL00M(230V50HZ,240V60HZ) 043833		G-DIL00M(24VDC) 048557	1 off
		DIL0(A)M	J-DIL0M(230V50HZ,240V60HZ) 047440		G-DIL0M(24VDC) 063206	
		DIL1(A)M	J-DIL1M(230V50HZ,240V60HZ) 047452		G-DIL1M(24VDC) 063211	
		DIL2(A)M	J-DIL2M(230V50HZ,240V60HZ) 048233		G-DIL2M(24VDC) 063216	
		DIL3(A)M80/85	J-DIL3M(230V50HZ,240V60HZ) 048922		G-DIL3M(24VDC) 063221	
		DIL3MK72	J-DIL3MK(230V50HZ,240V60HZ) 065782			
		DIL4(A)M115/145	J-DIL4M(230V50HZ,240V60HZ) 048933		G-DIL4M(24VDC) 063226	
	Spring-loaded terminals	DIL00(A)M-C	J-DIL00M-C(230V50HZ,240V60HZ) 232055		G-DIL00M-C(24VDC) 232065	
		DIL00(A)M-C ¹⁾	J-DIL00M-C(230V50HZ,240V60HZ-Z) 232073		G-DIL00M-C(24VDC-Z) 232075	
Electronic modules including coils						
	DILM185 DILM225 DILM250	DILM250-XSP/E(RA250) 208252		DILM250-XSP/E(RA250) 208252	1 off	
	DILM300 DILM400 DILM500	DILM500-XSP/E(RA250) 208256		DILM500-XSP/E(RA250) 208256		
	DILM580 DILM650 DILM750 DILM820 DILM1000	DILM820-XSP/E(RA250) 208259		DILM820-XSP/E(RA250) 208259		
	DILM185-S DILM225-S DILM250-S	DILM250-S-XSP/E(220-240V50/60HZ) 274202		-		
	DILM300-S DILM400-S DILM500-S	DILM500-S-XSP/E(220-240V50/60HZ) 274205		-		

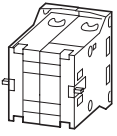
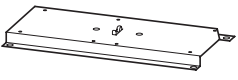
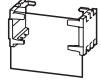
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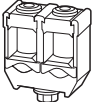
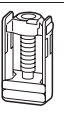
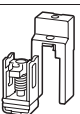
¹⁾ With integral suppressor circuit

Further actuating voltages

a 5/84

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	For use with	Type Article no.	Price See Price List	Std. pack
Mechanical interlock				
Contactors fitted side-by-side				
	DILP160, DILP250	DILP250-XMV 207472		1 off
	DILP315	DILP315-XMV 207473		
	DILP500, DILP630, DILP800	DILP800-XMV 207474		
Terminal cover				
	DILP160, DILP250	DILP250-XHB 207477		2 off
	DILP315	DILP315-XHB 207478		
	DILP500, DILP630, DILP800	DILP800-XHB 207479		

	For use with	For connection of:		Type Article no.	Price See Price List	Std. pack	Notes
		Round conductor, flexible and stranded mm ²	Copper strip mm				
Box terminals for cables							
Consisting of 3 individual clamps							
	–	DILP500 DILP630 DILP800	1 × 70 – 300	–	K-A-DIL11 000452	1 off	When using box terminals the protective cover must be used.
	–	DILP500 DILP630 DILP800	2 × 35 – 185	–	K-B-DIL11 000453	1 off	
Box terminals for flat conductors							
Consisting of 3 individual clamps							
	With protective cover	DILP160 DILP250 DILP315	–	18 × 20	K-B-DIL6M 064060	1 off	When using box terminals the protective cover must be used.
		DILP500 DILP630 DILP800	–	24 × 26	K-B-DIL6AM 064062		
	With control circuit terminal and protective cover	DILP160 DILP250 DILP315	–	18 × 20	KS-B-DIL6M 064061		
		DILP500 DILP630 DILP800	–	24 × 26	KS-B-DIL6AM 064063		



Conventional free air thermal current, open up to 690 V AC

$$I_{th} = I_e$$

A

Contacts

M = Make B = break

Contact sequence

For use with

Type Article no.

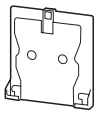
Price See Price List

Std. pack

Notes

Auxiliary contact modules

Side mounting



10

1 M

1 B



DILP160
DILP250
DILP315
DILP500

DILP800-XHI-SI
207470

10

1 M

1 B



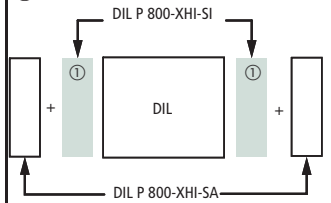
DILP630
DILP800

DILP800-XHI-SA
207471

1 off

Auxiliary contact module fitting options:

① = Basic features



Up to 8 auxiliary contacts possible, but only up to 4 break contacts or 4 make contacts.

No auxiliary contacts can be fitted between the mechanical interlock and the contactor.



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AC	DILEEM-10(...)	DILEEM-01(...)	DILEM-10(...)	DILEM-01(...)	DILEM4(...)
	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾
Standard voltages	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
12 V 50 Hz	068294	068295	068296	068297	079644
24 V 50 Hz	051604	051629	010005	010086	014754
48 V 50 Hz	051603	051628	010020	010294	011052
240V 50Hz	051602	051627	010032	010151	014305
24 V 60 Hz	051600	051625	010006	010134	014776
110 V 60 Hz	051599	051623	010023	010342	012419
115 V 60 Hz	051598	051624	010024	010470	012514
42 V 50 Hz, 48 V 60 Hz	051612	051637	051782	051791	051800
110 V 50 Hz, 120 V 60 Hz	051611	051636	051783	051792	051801
190 V 50 Hz, 220 V 60 Hz	051610	051635	051784	051793	051802
220 V 50 Hz, 240 V 60 Hz	051609	051634	051785	051794	051803
230 V 50 Hz, 240 V 60 Hz	051608	051633	051786	051795	051804
380 V 50 Hz, 440 V 60 Hz	051607	051632	051787	051796	051805
400 V 50 Hz, 440 V 60 Hz	051606	051631	051788	051797	051806
415 V 50 Hz, 480 V 60 Hz	051605	051630	051789	051798	051807
24 V 50/60 Hz	051596	051621	021417	020402	022044
42 V 50/60 Hz	051595	051620	032174	033233	031489
110 V 50/60 Hz	051592	051618	021455	020436	022021
230 V 50/60 Hz	056674	058771	052302	051114	052506
DC	DILEEM-10-G(...)	DILEEM-01-G(...)	DILEM-10-G(...)	DILEM-01-G(...)	DILEM4-G(...)
	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾
Standard voltages	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
12 V DC	051644	051649	079594	079642	079680
24 V DC	051643	051650	010213	010343	012701
48 V DC	051642	051648	010245	010496	012811
60V DC	051641	051647	010293	010040	012844
110V DC	051640	051646	010309	010136	013166
220V DC	051639	051645	010325	010168	013194

Notes

¹⁾ The article no. is formed from the combination of type and actuating voltage.
Devices with **dual-voltage coils** must be ordered using **one** order number.



5/64 Actuating voltages

DILEM mini contactors with springloaded terminals

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Contactors



AC	DILEEM-10-C(...)	DILEEM-01-C(...)	DILEM-10-C(...)	DILEM-01-C(...)
	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾
Standard voltages	Price/See price list	Price/See price list	Price/See price list	Price/See price list
12 V 50 Hz	230031	230124	231650	231673
24 V 50 Hz	230032	230125	231651	231674
48 V 50 Hz	230033	230126	231652	231675
240V 50Hz	230034	230127	231653	231676
24 V 60 Hz	230035	230128	231654	231677
110 V 60 Hz	230036	230129	231655	231678
115 V 60 Hz	230037	230130	231656	231679
42 V 50 Hz, 48 V 60 Hz	230038	230131	231657	231680
110 V 50 Hz, 120 V 60 Hz	230039	230132	231658	231681
190 V 50 Hz, 220 V 60 Hz	230040	230133	231659	231682
220 V 50 Hz, 240 V 60 Hz	230041	230134	231660	231683
230 V 50 Hz, 240 V 60 Hz	230042	230135	230164	230166
380 V 50 Hz, 440 V 60 Hz	230043	230136	231661	231684
400 V 50 Hz, 440 V 60 Hz	230044	230137	231662	231685
415 V 50 Hz, 480 V 60 Hz	230045	230138	231663	231686
24 V 50/60 Hz	230046	231641	231664	231687
42 V 50/60 Hz	230047	231642	231665	231688
110 V 50/60 Hz	230048	231643	231666	231689
230 V 50/60 Hz	230049	231644	231667	231690
DC	DILEEM-10-G-C(...)	DILEEM-01-G-C(...)	DILEM-10-G-C(...)	DILEM-01-G-C(...)
	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾
Standard voltages	Price/See price list	Price/See price list	Price/See price list	Price/See price list
12 V DC	230050	231645	231668	231691
24 V DC	230052	230155	230165	230167
48 V DC	230054	231646	231669	231692
60V DC	230055	231647	231670	231693
110V DC	230057	231648	231671	231694
220V DC	230060	231649	231672	231695

Notes

¹⁾ The article no. is formed from the combination of type and actuating voltage.
Devices with **dual-voltage coils** must be ordered using **one** article number.

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AC	DILM7-10(...)	DILM7-01(...)	DILM9-10(...)	DILM9-01(...)	DILM12-10(...)	DILM12-01(...)	DILMP20(...)
	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾
Standard voltages	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
12 V 50 Hz	276536	276571	276676	276711	276816	276851	276956
24 V 50 Hz	276537	276572	276677	276712	276817	276852	276957
48 V 50 Hz	276538	276573	276678	276713	276818	276853	276958
240V 50Hz	276539	276574	276679	276714	276819	276854	276959
500 V 50 Hz	276540	276575	276680	276715	276820	276855	276960
24 V 60 Hz	276541	276576	276681	276716	276821	276856	276961
110 V 60 Hz	276542	276577	276682	276717	276822	276857	276962
115 V 60 Hz	276543	276578	276683	276718	276823	276858	276963
208 V 60 Hz	276544	276579	276684	276719	276824	276859	276964
600 V 60 Hz	276545	276580	276685	276720	276825	276860	276965
42V 50Hz 48V 60Hz	276546	276581	276686	276721	276826	276861	276966
110V 50Hz 120V 60Hz	276547	276582	276687	276722	276827	276862	276967
190V 50Hz 220V 60Hz	276548	276583	276688	276723	276828	276863	276968
220V 50Hz 240V 60Hz	276549	276584	276689	276724	276829	276864	276969
230V 50Hz 240V 60Hz	276550	276585	276690	276725	276830	276865	276970
380V 50Hz 440V 60Hz	276551	276586	276691	276726	276831	276866	276971
400V 50Hz 440V 60Hz	276552	276587	276692	276727	276832	276867	276972
415V 50Hz 480V 60Hz	276553	276588	276693	276728	276833	276868	276973
24V 50Hz/60Hz	276554	276589	276694	276729	276834	276869	276974
42V 50Hz/60Hz	276555	276590	276695	276730	276835	276870	276975
110V 50Hz/60Hz	276556	276591	276696	276731	276836	276871	276976
220V 50Hz/60Hz	276557	276592	276697	276732	276837	276872	276977
230V 50Hz/60Hz	276558	276593	276698	276733	276838	276873	276978
380V 50Hz/60Hz	276559	276594	276699	276734	276839	276874	276979
Non-standard voltages with the exception of the previously stated standard voltages ¹⁾	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
...V 50Hz (12 – 600V)	276562	276597	276702	276737	276842	276877	276982
...V 50Hz (24 – 600V)	–	–	–	–	–	–	–
...V 60Hz (12 – 600V)	276563	276598	276703	276738	276843	276878	276983
...V 60Hz (24 – 600V)	–	–	–	–	–	–	–
DC	DILM7-10(...)	DILM7-01(...)	DILM9-10(...)	DILM9-01(...)	DILM12-10(...)	DILM12-01(...)	DILMP20(...)
	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾
Standard voltages	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
12 V DC	276564	276599	276704	276739	276844	276879	276984
24 V DC	276565	276600	276705	276740	276845	276880	276985
48 V DC	276566	276601	276706	276741	276846	276881	276986
60V DC	276567	276602	276707	276742	276847	276882	276987
110V DC	276568	276603	276708	276743	276848	276883	276988
220V DC	276569	276604	276709	276744	276849	276884	276989
Non-standard voltages with the exception of the previously stated standard voltages ¹⁾	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
...VDC (12-250V)	276570	276605	276710	276745	276850	276885	276990

Notes

- The article no. is formed from the combination of type and actuating voltage. Devices with dual-voltage coils must be ordered using one order number.
- When ordering non-standard voltages, state the required actuating voltage from the selected range (...-...V).





AC	DILMC7-10(...)	DILMC7-01(...)	DILMC9-10(...)	DILMC9-01(...)	DILMC12-10(...)	DILMC12-01(...)
	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾
Standard voltages	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
12 V 50 Hz	277378	277410	277442	277474	277506	277538
24 V 50 Hz	277379	277411	277443	277475	277507	277539
48 V 50 Hz	277380	277412	277444	277476	277508	277540
240V 50Hz	277381	277413	277445	277477	277509	277541
500 V 50 Hz	281424	281427	281430	281433	281436	281439
24 V 60 Hz	277382	277414	277446	277478	277510	277542
110 V 60 Hz	277383	277415	277447	277479	277511	277543
115 V 60 Hz	277384	277416	277448	277480	277512	277544
208 V 60 Hz	281425	281428	281431	281434	281437	281440
600 V 60 Hz	281426	281429	281432	281435	281438	281441
42V 50Hz 48V 60Hz	277385	277417	277449	277481	277513	277545
110V 50Hz 120V 60Hz	277386	277418	277450	277482	277514	277546
190V 50Hz 220V 60Hz	277387	277419	277451	277483	277515	277547
220V 50Hz 240V 60Hz	277388	277420	277452	277484	277516	277548
230V 50Hz 240V 60Hz	277389	277421	277453	277485	277517	277549
380V 50Hz 440V 60Hz	277390	277422	277454	277486	277518	277550
400V 50Hz 440V 60Hz	277391	277423	277455	277487	277519	277551
415V 50Hz 480V 60Hz	277392	277424	277456	277488	277520	277552
24V 50Hz/60Hz	277393	277425	277457	277489	277521	277553
42V 50Hz/60Hz	277394	277426	277458	277490	277522	277554
110V 50Hz/60Hz	277395	277427	277459	277491	277523	277555
220V 50Hz/60Hz	277396	277428	277460	277492	277524	277556
230V 50Hz/60Hz	277397	277429	277461	277493	277525	277557
380V 50Hz/60Hz	277398	277430	277462	277494	277526	277558
Non-standard voltages with the exception of the previously stated standard voltages ²⁾	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
...V 50Hz (12 – 600V)	277401	277433	277465	277497	277529	277561
...V 50Hz (24 – 600V)	–	–	–	–	–	–
...V 60Hz (12 – 600V)	277402	277434	277466	277498	277530	277562
...V 60Hz (24 – 600V)	–	–	–	–	–	–
DC	DILMC7-10(...)	DILMC7-01(...)	DILMC9-10(...)	DILMC9-01(...)	DILMC12-10(...)	DILMC12-01(...)
	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾
Standard voltages	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
12 V DC	277403	277435	277467	277499	277531	277563
24 V DC	277404	277436	277468	277500	277532	277564
48 V DC	277405	277437	277469	277501	277533	277565
60V DC	277406	277438	277470	277502	277534	277566
110V DC	277407	277439	277471	277503	277535	277567
220V DC	277408	277440	277472	277504	277536	277568
Non-standard voltages with the exception of the previously stated standard voltages ²⁾	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
...VDC (12 – 250V)	277409	277441	277473	277505	277537	277569

Notes

- ¹⁾ The article no. is formed from the combination of type and actuating voltage.
Devices with dual-voltage coils must be ordered using one order number.
- ²⁾ When ordering non-standard voltages, state the required actuating voltage from the selected range (...-...V).

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AC	DILM17-10 (...)	DILM17-01 (...)	DILM25-10 (...)	DILM25-01 (...)	DILM32-10 (...)	DILM32-01 (...)	DILM40 (...)	DILM50 (...)	DILM65 (...)
	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾
Standard voltages	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
12 V 50 Hz	–	–	–	–	–	–	–	–	–
24 V 50 Hz	276991	277023	277119	277151	277247	277279	277753	277817	277881
48 V 50 Hz	276992	277024	277120	277152	277248	277280	277754	277818	277882
240V 50Hz	276993	277025	277121	277153	277249	277281	277755	277819	277883
500 V 50 Hz	276994	277026	277122	277154	277250	277282	277756	277820	277884
24 V 60 Hz	276995	277027	277123	277155	277251	277283	277757	277821	277885
110 V 60 Hz	276996	277028	277124	277156	277252	277284	277758	277822	277886
115 V 60 Hz	276997	277029	277125	277157	277253	277285	277759	277823	277887
208 V 60 Hz	276998	277030	277126	277158	277254	277286	277760	277824	277888
600 V 60 Hz	276999	277031	277127	277159	277255	277287	277761	277825	277889
42V 50Hz 48V 60Hz	277000	277032	277128	277160	277256	277288	277762	277826	277890
110V 50Hz 120V 60Hz	277001	277033	277129	277161	277257	277289	277763	277827	277891
190V 50Hz 220V 60Hz	277002	277034	277130	277162	277258	277290	277764	277828	277892
220V 50Hz 240V 60Hz	277003	277035	277131	277163	277259	277291	277765	277829	277893
230V 50Hz 240V 60Hz	277004	277036	277132	277164	277260	277292	277766	277830	277894
380V 50Hz 440V 60Hz	277005	277037	277133	277165	277261	277293	277767	277831	277895
400V 50Hz 440V 60Hz	277006	277038	277134	277166	277262	277294	277768	277832	277896
415V 50Hz 480V 60Hz	277007	277039	277135	277167	277263	277295	277769	277833	277897
24V 50Hz/60Hz	277008	277040	277136	277168	277264	277296	277770	277834	277898
42V 50Hz/60Hz	277009	277041	277137	277169	277265	277297	277771	277835	277899
110V 50Hz/60Hz	277010	277042	277138	277170	277266	277298	277772	277836	277900
220V 50Hz/60Hz	277011	277043	277139	277171	277267	277299	277773	277837	277901
230V 50Hz/60Hz	277012	277044	277140	277172	277268	277300	277774	277838	277902
380V 50Hz/60Hz	277013	277045	277141	277173	277269	277301	277775	277839	277903
Non-standard voltages with the exception of the previously stated standard voltages ²⁾	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
...V 50Hz (12 – 600V)	–	–	–	–	–	–	–	–	–
...V 50Hz (24 – 600V)	277016	277048	277144	277176	277272	277304	277778	277842	277906
...V 60Hz (12 – 600V)	–	–	–	–	–	–	–	–	–
...V 60Hz (24 – 600V)	277017	277049	277145	277177	277273	277305	277779	277843	277907
DC	DILM17-10(...)	DILM17-01(...)	DILM25-10(...)	DILM25-01(...)	DILM32-10(...)	DILM32-01(...)	DILM40(...)	DILM50(...)	DILM65(...)
	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾
Standard voltages	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
RDC 24 ³⁾	277018	277050	277146	277178	277274	277306	277780	277844	277908
RDC 60 ⁴⁾	277019	277051	277147	277179	277275	277307	277781	277845	277909
RDC 130 ⁵⁾	277020	277052	277148	277180	277276	277308	277782	277846	277910
RDC 240 ⁶⁾	277021	277053	277149	277181	277277	277309	277783	277847	277911

Notes

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- ²⁾ When ordering non-standard voltages, state the required actuating voltage from the selected range (...–...V).
- ³⁾ 24 – 27 V DC
- ⁴⁾ 48 – 60 V DC
- ⁵⁾ 110 – 130 V DC
- ⁶⁾ 200 – 240 V DC

Availability of DILM40... to DILM65...: from December 2004





AC	DILMC17-10 (...)	DILMC17-01 (...)	DILMC25-10 (...)	DILMC25-01 (...)	DILMC32-10 (...)	DILMC32-01 (...)	DILMC40 (...)	DILMC50 (...)	DILMC65 (...)
	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾
Standard voltages	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
12 V 50 Hz	–	–	–	–	–	–	–	–	–
24 V 50 Hz	277570	277600	277630	277660	277690	277720	277954	277984	278014
48 V 50 Hz	277571	277601	277631	277661	277691	277721	277955	277985	278015
240V 50Hz	277572	277602	277632	277662	277692	277722	277956	277986	278016
500 V 50 Hz	277573	277603	277633	277663	277693	277723	277957	277987	278017
24 V 60 Hz	277574	277604	277634	277664	277694	277724	277958	277988	278018
110 V 60 Hz	277575	277605	277635	277665	277695	277725	277959	277989	278019
115 V 60 Hz	277576	277606	277636	277666	277696	277726	277960	277990	278020
208 V 60 Hz	281442	281444	281446	281448	281450	281452	281454	281456	281458
600 V 60 Hz	281443	281445	281447	281449	281451	281453	281455	281457	281459
42V 50Hz 48V 60Hz	277577	277607	277637	277667	277697	277727	277961	277991	278021
110V 50Hz 120V 60Hz	277578	277608	277638	277668	277698	277728	277962	277992	278022
190V 50Hz 220V 60Hz	277579	277609	277639	277669	277699	277729	277963	277993	278023
220V 50Hz 240V 60Hz	277580	277610	277640	277670	277700	277730	277964	277994	278024
230V 50Hz 240V 60Hz	277581	277611	277641	277671	277701	277731	277965	277995	278025
380V 50Hz 440V 60Hz	277582	277612	277642	277672	277702	277732	277966	277996	278026
400V 50Hz 440V 60Hz	277583	277613	277643	277673	277703	277733	277967	277997	278027
415V 50Hz 480V 60Hz	277584	277614	277644	277674	277704	277734	277968	277998	278028
24V 50Hz/60Hz	277585	277615	277645	277675	277705	277735	277969	277999	278029
42V 50Hz/60Hz	277586	277616	277646	277676	277706	277736	277970	278000	278030
110V 50Hz/60Hz	277587	277617	277647	277677	277707	277737	277971	278001	278031
220V 50Hz/60Hz	277588	277618	277648	277678	277708	277738	277972	278002	278032
230V 50Hz/60Hz	277589	277619	277649	277679	277709	277739	277973	278003	278033
380V 50Hz/60Hz	277590	277620	277650	277680	277710	277740	277974	278004	278034
Non-standard voltages with the exception of the previously stated standard voltages ²⁾	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
...V 50Hz (12 – 600V)	–	–	–	–	–	–	–	–	–
...V 50Hz (24 – 600V)	277593	277623	277653	277683	277713	277743	277977	278007	278037
...V 60Hz (12 – 600V)	–	–	–	–	–	–	–	–	–
...V 60Hz (24 – 600V)	277594	277624	277654	277684	277714	277744	277978	278008	278038
DC	DILMC17-10 (...)	DILMC17-01 (...)	DILMC25-10 (...)	DILMC25-01 (...)	DILMC32-10 (...)	DILMC32-01 (...)	DILMC40 (...)	DILMC50 (...)	DILMC65 (...)
	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾
Standard voltages	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
RDC 24 ³⁾	277595	277625	277655	277685	277715	277745	277979	278009	278039
RDC 60 ⁴⁾	277596	277626	277656	277686	277716	277746	277980	278010	278040
RDC 130 ⁵⁾	277597	277627	277657	277687	277717	277747	277981	278011	278041
RDC 240 ⁶⁾	277598	277628	277658	277688	277718	277748	277982	278012	278042

Notes

- 1) The article no. is formed from the combination of type and actuating voltage.
Devices with dual-voltage coils must be ordered using one order number.
- 2) When ordering non-standard voltages, state the required actuating voltage from the selected range (...–...V).
- 3) 24 – 27 V DC
- 4) 48 – 60 V DC
- 5) 110 – 130 V DC
- 6) 200 – 240 V DC

Availability of DILMC40... to DILMC65...: from December 2004

Moeller HPL0211-2004/2005

AC	DILM7-21(...)	DILM7-32(...)	DILM9-21(...)	DILM9-32(...)	DILM12-21(...)	DILM12-32(...)
	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾
Standard voltages	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
12 V 50 Hz	276606	276641	276746	276781	276886	276921
24 V 50 Hz	276607	276642	276747	276782	276887	276922
48 V 50 Hz	276608	276643	276748	276783	276888	276923
240V 50Hz	276609	276644	276749	276784	276889	276924
500 V 50 Hz	276610	276645	276750	276785	276890	276925
24 V 60 Hz	276611	276646	276751	276786	276891	276926
110 V 60 Hz	276612	276647	276752	276787	276892	276927
115 V 60 Hz	276613	276648	276753	276788	276893	276928
208 V 60 Hz	276614	276649	276754	276789	276894	276929
600 V 60 Hz	276615	276650	276755	276790	276895	276930
42V 50Hz 48V 60Hz	276616	276651	276756	276791	276896	276931
110V 50Hz 120V 60Hz	276617	276652	276757	276792	276897	276932
190V 50Hz 220V 60Hz	276618	276653	276758	276793	276898	276933
220V 50Hz 240V 60Hz	276619	276654	276759	276794	276899	276934
230V 50Hz 240V 60Hz	276620	276655	276760	276795	276900	276935
380V 50Hz 440V 60Hz	276621	276656	276761	276796	276901	276936
400V 50Hz 440V 60Hz	276622	276657	276762	276797	276902	276937
415V 50Hz 480V 60Hz	276623	276658	276763	276798	276903	276938
24V 50Hz/60Hz	276624	276659	276764	276799	276904	276939
42V 50Hz/60Hz	276625	276660	276765	276800	276905	276940
110V 50Hz/60Hz	276626	276661	276766	276801	276906	276941
220V 50Hz/60Hz	276627	276662	276767	276802	276907	276942
230V 50Hz/60Hz	276628	276663	276768	276803	276908	276943
380V 50Hz/60Hz	276629	276664	276769	276804	276909	276944
Non-standard voltages with the exception of the previously stated standard voltages ²⁾	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
...V 50Hz (12 – 600V)	276632	276667	276772	276807	276912	276947
...V 50Hz (24 – 600V)	–	–	–	–	–	–
...V 60Hz (12 – 600V)	276633	276668	276773	276808	276913	276948
...V 60Hz (24 – 600V)	–	–	–	–	–	–
DC	DILM7-21(...)	DILM7-32(...)	DILM9-21(...)	DILM9-32(...)	DILM12-21(...)	DILM12-32(...)
	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾
Standard voltages	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
12 V DC	276634	276669	276774	276809	276914	276949
24 V DC	276635	276670	276775	276810	276915	276950
48 V DC	276636	276671	276776	276811	276916	276951
60V DC	276637	276672	276777	276812	276917	276952
110V DC	276638	276673	276778	276813	276918	276953
220V DC	276639	276674	276779	276814	276919	276954
Non-standard voltages with the exception of the previously stated standard voltages ²⁾	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
...VDC (12 – 250V)	276640	276675	276780	276815	276920	276955

Notes

- 1) The article no. is formed from the combination of type and actuating voltage.
Devices with dual-voltage coils must be ordered using one order number.
- 2) When ordering non-standard voltages, state the required actuating voltage from the selected range (...–...V).





AC	DILM17-21 (...)	DILM17-32 (...)	DILM25-21 (...)	DILM25-32 (...)	DILM32-21 (...)	DILM32-32 (...)	DILM40-22 (...)	DILM50-22 (...)	DILM65-22 (...)
	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾
Standard voltages	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
12 V 50 Hz	–	–	–	–	–	–	–	–	–
24 V 50 Hz	277055	277087	277183	277215	277311	277343	277785	277849	277913
48 V 50 Hz	277056	277088	277184	277216	277312	277344	277786	277850	277914
240V 50Hz	277057	277089	277185	277217	277313	277345	277787	277851	277915
500 V 50 Hz	277058	277090	277186	277218	277314	277346	277788	277852	277916
24 V 60 Hz	277059	277091	277187	277219	277315	277347	277789	277853	277917
110 V 60 Hz	277060	277092	277188	277220	277316	277348	277790	277854	277918
115 V 60 Hz	277061	277093	277189	277221	277317	277349	277791	277855	277919
208 V 60 Hz	277062	277094	277190	277222	277318	277350	277792	277856	277920
600 V 60 Hz	277063	277095	277191	277223	277319	277351	277793	277857	277921
42V 50Hz 48V 60Hz	277064	277096	277192	277224	277320	277352	277794	277858	277922
110V 50Hz 120V 60Hz	277065	277097	277193	277225	277321	277353	277795	277859	277923
190V 50Hz 220V 60Hz	277066	277098	277194	277226	277322	277354	277796	277860	277924
220V 50Hz 240V 60Hz	277067	277099	277195	277227	277323	277355	277797	277861	277925
230V 50Hz 240V 60Hz	277068	277100	277196	277228	277324	277356	277798	277862	277926
380V 50Hz 440V 60Hz	277069	277101	277197	277229	277325	277357	277799	277863	277927
400V 50Hz 440V 60Hz	277070	277102	277198	277230	277326	277358	277800	277864	277928
415V 50Hz 480V 60Hz	277071	277103	277199	277231	277327	277359	277801	277865	277929
24V 50Hz/60Hz	277072	277104	277200	277232	277328	277360	277802	277866	277930
42V 50Hz/60Hz	277073	277105	277201	277233	277329	277361	277803	277867	277931
110V 50Hz/60Hz	277074	277106	277202	277234	277330	277362	277804	277868	277932
220V 50Hz/60Hz	277075	277107	277203	277235	277331	277363	277805	277869	277933
230V 50Hz/60Hz	277076	277108	277204	277236	277332	277364	277806	277870	277934
380V 50Hz/60Hz	277077	277109	277205	277237	277333	277365	277807	277871	277935
Non-standard voltages with the exception of the previously stated standard voltages ²⁾	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
...V 50Hz (12 – 600V)	–	–	–	–	–	–	–	–	–
...V 50Hz (24 – 600V)	277080	277112	277208	277240	277336	277368	277810	277874	277938
...V 60Hz (12 – 600V)	–	–	–	–	–	–	–	–	–
...V 60Hz (24 – 600V)	277081	277113	277209	277241	277337	277369	277811	277875	277939
DC	DILM17-21 (...)	DILM17-32 (...)	DILM25-21 (...)	DILM25-32 (...)	DILM32-21 (...)	DILM32-32 (...)	DILM40-22 (...)	DILM50-22 (...)	DILM65-22 (...)
	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾
Standard voltages	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
RDC 24 ³⁾	277082	277114	277210	277242	277338	277370	277812	277876	277940
RDC 60 ⁴⁾	277083	277115	277211	277243	277339	277371	277813	277877	277941
RDC 130 ⁵⁾	277084	277116	277212	277244	277340	277372	277814	277878	277942
RDC 240 ⁶⁾	277085	277117	277213	277245	277341	277373	277815	277879	277943

Notes

- ¹⁾ The article no. is formed from the combination of type and actuating voltage.
Devices with dual-voltage coils must be ordered using one order number.
- ²⁾ When ordering non-standard voltages, state the required actuating voltage from the selected range (...-...V).
- ³⁾ 24 – 27 V DC
- ⁴⁾ 48 – 60 V DC
- ⁵⁾ 110 – 130 V DC
- ⁶⁾ 200 – 240 V DC

Availability of DILM40-... to DILM65-...: from December 2004

Moeller HPL0211-2004/2005

AC	DILM32-XSP	DILM65-XSP
	Article no. ¹⁾	Article no. ¹⁾
Standard voltages	Price/See price list	Price/See price list
12 V 50 Hz	–	–
24 V 50 Hz	281130	281160
48 V 50 Hz	281131	281161
240V 50Hz	281132	281162
500 V 50 Hz	281133	281163
24 V 60 Hz	281134	281164
110 V 60 Hz	281135	281165
115 V 60 Hz	281136	281166
208 V 60 Hz	283377	283379
600 V 60 Hz	283378	283380
42V 50Hz 48V 60Hz	281137	281167
110V 50Hz 120V 60Hz	281138	281168
190V 50Hz 220V 60Hz	281139	281169
220V 50Hz 240V 60Hz	281140	281170
230V 50Hz 240V 60Hz	281141	281171
380V 50Hz 440V 60Hz	281142	281172
400V 50Hz 440V 60Hz	281143	281173
415V 50Hz 480V 60Hz	281144	281174
24V 50Hz/60Hz	281145	281175
42V 50Hz/60Hz	281146	281176
110V 50Hz/60Hz	281147	281177
220V 50Hz/60Hz	281148	281178
230V 50Hz/60Hz	281149	281179
380V 50Hz/60Hz	281150	281180
Non-standard voltages with the exception of the previously stated standard voltages ²⁾	Price/See price list	Price/See price list
...V 50Hz (12 – 600V)	–	–
...V 50Hz (24 – 600V)	281153	281183
...V 60Hz (12 – 600V)	–	–
...V 60Hz (24 – 600V)	281154	281184
DC	DILM32-XSP	DILM65-XSP
	Article no. ¹⁾	Article no. ¹⁾
Standard voltages	Price/See price list	Price/See price list
RDC 24 ³⁾	281155	281185
RDC 60 ⁴⁾	281156	281186
RDC 130 ⁵⁾	281157	281187
RDC 240 ⁶⁾	281158	281188

Notes

- ¹⁾ The article no. is formed from the combination of type and actuating voltage. Devices with dual-voltage coils must be ordered using one order number.
- ²⁾ When ordering non-standard voltages, state the required actuating voltage from the selected range (...-...V).
- ³⁾ 24 – 27 V DC
- ⁴⁾ 48 – 60 V DC
- ⁵⁾ 110 – 130 V DC
- ⁶⁾ 200 – 240 V DC

**Availability of DILM32-XSP and DILM65-XSP:
from December 2004**



5/72 Actuating voltages DIL00M to DIL1AM contactors

Moeller HPL0211-2004/2005

AC	DIL00M (...)	DIL00M4 (...)	DIL00AM (...)	DIL00BM (...)	DIL00BM- 10(...)	DIL00BM- 01(...)	DIL0M (...)	DIL0AM (...)	DIL1M (...)	DIL1AM (...)
	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾
Standard voltages	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
24 V 50 Hz	041764	000104	068921	041142	044232	044200	009506	054590	049856	011886
48 V 50 Hz	048883	023834	045191	041143	044233	044201	035609	080693	078332	040362
240V 50Hz	058375	095023	078413	041144	044234	044202	002387	047471	045110	007140
500 V 50 Hz	065494	030953	038072	041145	044235	044203	040355	085439	080705	042735
24 V 60 Hz	086851	099769	071294	042754	044245	044213	011879	056963	052229	014259
115 V 60 Hz	079732	078412	090278	043015	044246	044214	092560	035606	030872	094940
42 V 50 Hz, 48 V 60 Hz	060476	046933	061221	061229	061237	061245	061253	061261	061269	061417
110 V 50 Hz, 120 V 60 Hz	060477	046926	061222	061230	061238	061246	061254	061262	061270	061427
190 V 50 Hz, 220 V 60 Hz	060478	046927	061223	061231	061239	061247	061255	061263	061271	061437
220 V 50 Hz, 240 V 60 Hz	061216	046928	061225	061232	061240	061248	061256	061264	061272	061447
230 V 50 Hz, 240 V 60 Hz	061217	046929	061224	061233	061241	061249	061257	061265	061273	061457
380 V 50 Hz, 440 V 60 Hz	061218	046930	061226	061234	061242	061250	061258	061266	061274	043586
400 V 50 Hz, 440 V 60 Hz	061219	046931	061227	061235	061243	061251	061259	061267	061275	043981
415 V 50 Hz, 480 V 60 Hz	061220	046932	061228	061236	061244	061252	061260	061268	061375	044266
24 V 50/60 Hz	093970	097396	073667	043648	044255	044223	007133	052217	047483	009513
42 V 50/60 Hz	088324	083288	088471	043718	044256	044224	023744	068828	064094	026124
110 V 50/60 Hz	098716	073666	095024	044170	044258	044226	085441	028487	023753	087821
230 V 50/60 Hz	043380	045969	043237	045388	045610	045563	043665	043527	043695	043666
380 V 50/60 Hz	013289	007223	064175	044172	044260	044228	016625	061709	056975	019005
Non-standard voltages with the exception of the previously stated standard voltages ²⁾	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
...V 50Hz (12 – 600V)	939391	968920	999770	941140	944230	944198	980695	923741	–	–
...V 50Hz (24 – 600V)	–	–	–	–	–	–	–	–	919007	983075
...V 60Hz (12 – 600V)	984478	971293	997397	941141	944231	944199	983068	926114	–	–
...V 60Hz (24 – 600V)	–	–	–	–	–	–	–	–	921380	985448
DC	DIL00M -G(...)	DIL00M4 -G(...)	DIL00AM -G(...)	DIL00BM -G(...)	DIL00BM -G-10(...)	DIL00BM -G-01(...)	DIL0M -G(...)	DIL0AM -G(...)	DIL1M -G(...)	DIL1AM -G(...)
	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾
Standard voltages	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
24 V DC	048587	063171	048567	048572	048582	048577	048597	048592	048605	048602
48 V DC	048588	063172	048568	048573	048583	048578	048598	048593	048606	048603
60V DC	048589	063173	048569	048574	048584	048579	048599	048594	048607	063229
110V DC	048585	063169	048565	048570	048580	048575	048595	048590	063230	048600
220V DC	048586	063170	048566	048571	048581	048576	048596	048591	048604	048601
Non-standard voltages with the exception of the previously stated standard voltages ²⁾	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
...V DC (12 – 250V)	915546	915232	915547	915548	915549	915550	915551	915552	915553	915554

Notes

- 1) The article no. is formed from the combination of type and actuating voltage.
Devices with **dual-voltage coils** must be ordered using **one** order number.
- 2) When ordering non-standard voltages, state the required actuating voltage from the selected range (...–...V).

Moeller HPL0211-2004/2005

AC	DIL2M(...)	DIL2AM(...)	DIL3M80(...)	DIL3AM85(...)	DIL4M115(...)	DIL4AM145(...)	VDIL(...)
	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾
Standard voltages	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
24 V 50 Hz	009525	033253	209681	209715	209743	209771	053536
48 V 50 Hz	038001	061729	209683	209716	209744	209772	055493
240V 50Hz	004779	028507	209684	209717	209745	209773	053115
500 V 50 Hz	078341	064102	209685	209718	209746	209774	–
24 V 60 Hz	011898	035626	209687	209720	209747	209775	053659
115 V 60 Hz	092579	014269	209689	209721	209748	209776	052241
42 V 50 Hz, 48 V 60 Hz	046562	046570	209690	209722	209749	209777	043821
110 V 50 Hz, 120 V 60 Hz	046563	046571	209691	209723	209750	209778	043822
190 V 50 Hz, 220 V 60 Hz	046564	046572	209692	209724	209751	209779	043823
220 V 50 Hz, 240 V 60 Hz	046565	046573	209693	209725	209752	209780	043824
230 V 50 Hz, 240 V 60 Hz	046566	046574	209694	209726	209753	209781	043825
380 V 50 Hz, 440 V 60 Hz	046567	046575	209695	209727	209754	209782	–
400 V 50 Hz, 440 V 60 Hz	046568	046576	209696	209728	209755	209783	–
415 V 50 Hz, 480 V 60 Hz	046569	046577	209701	209729	209756	209784	–
24 V 50/60 Hz	007152	030880	209702	209730	209758	209785	053217
42 V 50/60 Hz	023763	049864	209703	209731	209759	209786	055218
110 V 50/60 Hz	085460	007150	209704	209732	209760	209787	051165
230 V 50/60 Hz	048774	044082	209705	209733	209761	209788	054487
380 V 50/60 Hz	016644	042745	209706	209734	209762	209789	054695
Non-standard voltages with the exception of the previously stated standard voltages ²⁾	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
...V 50Hz (12 – 415V)	–	–	–	–	–	–	903184
...V 50Hz (24 – 600V)	980714	902404	209707	209735	209763	209790	–
...V 60Hz (12 – 415V)	–	–	–	–	–	–	903183
...V 60Hz (24 – 600V)	983087	904777	209708	209736	209764	209791	–
DC	DIL2M-G(...)	DIL2AM-G(...)	DIL3M80(...)	DIL3AM85(...)	DIL4M115(...)	DIL4AM145(...)	V-GDIL(...)
	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾
Standard voltages	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
24 V DC	048615	048610	209709	209737	209765	209792	048562
48 V DC	048616	048611	209710	209738	209766	209793	048563
60V DC	048617	048612	209711	209739	209767	209794	048564
110V DC	048613	048608	209712	209740	209768	209795	048560
220V DC	048614	048609	209713	209741	209769	209796	048561
Non-standard voltages with the exception of the previously stated standard voltages ²⁾	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
	30	30	30	30	30		30
...V DC (12 – 250V)	915539	915540	–	–	–	–	915545
...V DC (24 – 250V)	–	–	209714	209742	209770	209797	–

Notes

- ¹⁾ The article no. is formed from the combination of type and actuating voltage. Devices with **dual-voltage coils** must be ordered using **one** order number.
- ²⁾ When ordering non-standard voltages, state the required actuating voltage from the selected range (...–...V).



5/74 Actuating voltages DIL00M to DIL0M complete units

Moeller HPL0211-2004/2005

Contactors

AC	DIL00M -10(...)	DIL00M -01(...)	DIL00M /11(...)	DIL00M /22(...)	DIL00AM -10(...)	DIL00AM -01(...)	DIL00AM /11(...)	DIL00AM /22(...)	DIL0M /11(...)	DIL0M /22(...)
	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾
Standard voltages	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
24 V 50 Hz	020408	039393	047562	028579	000106	033327	068923	035702	033237	000016
48 V 50 Hz	027527	046512	059427	040444	078414	057057	092653	011972	061713	026119
240V 50Hz	037019	063123	045189	026206	007225	026208	061804	045194	026118	094935
500 V 50 Hz	044138	060750	061800	042817	071295	064176	099772	004853	064086	033238
24 V 60 Hz	048884	013290	076038	057055	002479	030954	066550	038075	035610	002389
115 V 60 Hz	058376	022782	085530	066547	023836	009597	045193	059432	011880	080697
42 V 50 Hz, 48 V 60 Hz	046642	046650	046658	046666	046674	046682	046690	046698	046706	046714
110 V 50 Hz, 120 V 60 Hz	046643	046651	046659	046667	046675	046683	046691	046699	046707	046715
190 V 50 Hz, 220 V 60 Hz	046644	046652	046660	046668	046676	046684	046692	046700	046708	046716
220 V 50 Hz, 240 V 60 Hz	046645	046653	046661	046669	046677	046685	046693	046701	046709	046717
230 V 50 Hz, 240 V 60 Hz	046646	046654	046662	046670	046678	046686	046694	046702	046710	046718
380 V 50 Hz, 440 V 60 Hz	046647	046655	046663	046671	046679	046687	046695	046703	046711	046719
400 V 50 Hz, 440 V 60 Hz	046648	046656	046664	046672	046680	046688	046696	046704	046712	046720
415 V 50 Hz, 480 V 60 Hz	046649	046657	046665	046673	046681	046689	046697	046705	046713	046721
24 V 50/60 Hz	072614	098717	092649	007222	004852	028581	064177	040448	030864	099681
42 V 50/60 Hz	034842	088382	088421	088443	088530	088504	088553	088579	047475	014254
110 V 50/60 Hz	077360	093971	087903	011968	028582	004851	040447	064178	004761	073578
230 V 50/60 Hz	043526	043444	045663	045815	043305	044083	044190	045181	047934	048051
380 V 50/60 Hz	082106	089225	095022	004849	097398	038073	073669	030956	040356	007135
Non-standard voltages with the exception of the previously stated standard voltages ²⁾	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
...V 50Hz (12 – 600V)	918035	937020	935697	916714	933328	900105	935701	968924	900015	968832
...V 60Hz (12 – 600V)	946511	910917	933324	914341	930955	902478	938074	966551	902388	971205
DC	DIL00M -G-10(...)	DIL00M -G-01(...)	DIL00M -G/11(...)	DIL00M -G/22(...)	DIL00AM -G-10(...)	DIL00AM -G-01(...)	DIL00AM -G/11(...)	DIL00AM -G/22(...)	DIL0M -G/11(...)	DIL0M -G/22(...)
	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾
Standard voltages	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
24 V DC	048670	048665	048675	048680	048650	048645	048655	048660	048686	048953
48 V DC	048671	048666	048676	048681	048651	048646	048656	048661	048687	048954
60V DC	048672	048667	048677	048682	048652	048647	048657	048662	048688	048955
110V DC	048668	048663	048673	048678	048648	048643	048653	048658	048684	048689
220V DC	048669	048664	048674	048679	048649	048644	048654	048659	048685	048898
Non-standard voltages with the exception of the previously stated standard voltages ²⁾	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
...V DC (12 – 250V)	915529	915530	915531	915532	915533	915534	915535	915536	915537	915538

Notes

¹⁾ The article no. is formed from the combination of type and actuating voltage.

Devices with **dual-voltage coils** must be ordered using **one** order number.

²⁾ When ordering non-standard voltages, state the required actuating voltage from the selected range (...-...V).

Moeller HPL0211-2004/2005

AC	DIL00M -10-C(...)	DIL00M -01-C(...)	DIL00AM -10-C(...)	DIL00AM -01-C(...)	DIL00M -10-C(...-Z)	DIL00M -01-C(...-Z)	DIL00AM -10-C(...-Z)	DIL00AM -01-C(...-Z)
	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾
Standard voltages	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
24 V 50 Hz	231696	231718	231740	231763	231997	232003	232009	232015
48 V 50 Hz	231697	231719	231741	231764	–	–	–	–
240V 50Hz	231698	231720	231742	231765	–	–	–	–
500 V 50 Hz	231699	231721	231743	231766	–	–	–	–
24 V 60 Hz	231700	231722	231744	231767	–	–	–	–
115 V 60 Hz	231701	231723	231745	231768	–	–	–	–
42 V 50 Hz, 48 V 60 Hz	231702	231724	231746	231769	231998	232004	232010	232016
110 V 50 Hz, 120 V 60 Hz	231703	231725	231747	231770	231999	232005	232011	232017
190 V 50 Hz, 220 V 60 Hz	231704	231726	231748	231771	–	–	–	–
220 V 50 Hz, 240 V 60 Hz	231705	231727	231749	231772	–	–	–	–
230 V 50 Hz, 240 V 60 Hz	230168	230170	230172	230174	232000	232006	232012	232018
380 V 50 Hz, 440 V 60 Hz	231706	231728	231750	231773	–	–	–	–
400 V 50 Hz, 440 V 60 Hz	231707	231729	231751	231774	–	–	–	–
415 V 50 Hz, 480 V 60 Hz	231708	231730	231752	231775	–	–	–	–
24 V 50/60 Hz	231709	231731	231753	231776	–	–	–	–
42 V 50/60 Hz	231710	231732	231754	231777	–	–	–	–
110 V 50/60 Hz	231711	231733	231755	231778	–	–	–	–
230 V 50/60 Hz	231712	231734	231756	231779	232001	232007	232013	232019
380 V 50/60 Hz	231713	231735	231757	231780	–	–	–	–
DC	DIL00M -G-10-C(...)	DIL00M -G-01-C(...)	DIL00AM -G-10-C(...)	DIL00AM -G-01-C(...)	DIL00M -G-10-C(...-Z)	DIL00M -G-01-C(...-Z)	DIL00AM -G-10-C(...-Z)	DIL00AM -G-01-C(...-Z)
	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾
Standard voltages	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
24 V DC	230169	230171	230173	230175	232002	232008	232014	232020
48 V DC	231714	231736	231758	231781	–	–	–	–
60V DC	231715	231737	231759	231782	–	–	–	–
110V DC	231716	231738	231760	231783	–	–	–	–
220V DC	231717	231739	231761	231784	–	–	–	–

Notes

¹⁾ The article no. is formed from the combination of type and actuating voltage.
Devices with **dual-voltage coils** must be ordered using **one** order number.



5/76 Actuating voltages DIL0AM to DIL4AM145 complete units

Moeller HPL0211-2004/2005

Contactors

AC	DIL0AM/ 11(...)	DIL0AM/ 22(...)	DIL1M/ 22(...)	DIL1AM/ 22(...)	DIL2M/ 22(...)	DIL2AM/ 22(...)	DIL3M80/ 22(...)	DIL3AM85/ 22(...)	DIL4M115/ 22(...)	DIL4AM145/ 22(...)
	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾
Standard voltages	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
24 V 50 Hz	078321	045100	054603	016633	009526	040373	209858	209886	209913	209940
48 V 50 Hz	002386	071203	083079	045109	038002	068849	209859	209887	209914	209941
240V 50Hz	071202	037981	049857	011887	004780	035627	209860	209888	209915	209942
500 V 50 Hz	009505	075949	085452	047482	040375	071222	209861	209889	209916	209943
24 V 60 Hz	080694	047473	056976	019006	011899	042746	209863	209890	209917	209944
115 V 60 Hz	056964	023743	033246	097314	090207	019016	209864	209891	209918	209945
42 V 50 Hz, 48 V 60 Hz	046752	046760	046768	046776	046784	046792	209865	209892	209919	209946
110 V 50 Hz, 120 V 60 Hz	046753	046761	046769	046777	046785	046793	209866	209893	209920	209947
190 V 50 Hz, 220 V 60 Hz	046754	046762	046770	046778	046786	046794	209867	209894	209921	209948
220 V 50 Hz, 240 V 60 Hz	046755	046763	046771	046779	046787	046795	209868	209895	209922	209949
230 V 50 Hz, 240 V 60 Hz	046756	046764	046772	046780	046788	046796	209869	209896	209923	209950
380 V 50 Hz, 440 V 60 Hz	046757	046765	046773	046781	046789	046797	209870	209897	209924	209951
400 V 50 Hz, 440 V 60 Hz	046758	046766	046774	046782	046790	046798	209871	209898	209925	209952
415 V 50 Hz, 480 V 60 Hz	046759	046767	046775	046783	046791	046799	209872	209899	209926	209953
24 V 50/60 Hz	075948	042727	052230	014260	007153	038000	209873	209900	209927	209954
42 V 50/60 Hz	092559	059338	068841	030871	023764	054611	209874	209901	209928	209955
110 V 50/60 Hz	049845	016624	026127	090195	083088	011897	209875	209902	209929	209956
230 V 50/60 Hz	047469	047556	048243	048181	049861	048415	209876	209903	209930	209957
380 V 50/60 Hz	085440	052219	061722	023752	016645	047492	209877	209904	209931	209958
Non-standard voltages with the exception of the previously stated standard voltages ²⁾	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
...V 50Hz (12–600V)	945099	911878	–	–	–	–	–	–	–	–
...V 50Hz (24–600V)	–	–	921381	985449	978342	907151	209878	209905	209932	209959
...V 60Hz (12–600V)	947472	914251	–	–	–	–	–	–	–	–
...V 60Hz (24–600V)	–	–	923754	987822	980715	909524	209879	209906	209933	209960
DC	DIL0AM -G/11(...)	DIL0AM -G/22(...)	DIL1M -G/22(...)	DIL1AM -G/22(...)	DIL2M -G/22(...)	DIL2AM -G/22(...)	DIL3M80/ 22(...)	DIL3AM85/ 22(...)	DIL4M115/ 22(...)	DIL4AM145/ 22(...)
	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾
Standard voltages	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
24 V DC	049000	049997	051692	050858	051702	051697	209880	209907	209934	209961
48 V DC	049001	050269	051693	051318	051703	051698	209881	209908	209935	209962
60V DC	049869	050270	051694	051480	051704	051699	209882	209909	209936	209963
110V DC	048998	049870	051690	050368	051700	051695	209883	209910	209937	209964
220V DC	048999	049871	051691	050546	051701	051696	209884	209911	209938	209965
Non-standard voltages with the exception of the previously stated	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
...V DC (12–250V)	915519	915520	915521	915522	915523	915524	–	–	–	–
...V DC (24–250V)	–	–	–	–	–	–	209885	209912	209939	209966

Notes

¹⁾ The article no. is formed from the combination of type and actuating voltage.

Devices with **dual-voltage coils** must be ordered using **one** order number.

²⁾ When ordering non-standard voltages, state the required actuating voltage from the selected range (...–...V).

DILM185 to DILM1000 complete units, electronic modules including coils

Moeller HPL0211-2004/2005

Complete units, comfort	DILM185 /22(...)	DILM225 /22(...)	DILM250 /22(...)	DILM300 /22(...)	DILM400 /22(...)	DILM500 /22(...)	DILM580 /22(...)	DILM650 /22(...)	DILM750 /22(...)	DILM820 /22(...)	DILM1000 /22(...)
	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾
Voltage version	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
RDC 48 ²⁾	208191	208195	208199	208203	208207	208211	–	–	–	–	–
RA 110 ³⁾	208192	208196	208200	208204	208208	208212	208215	208218	208221	208224	267213
RA 250 ⁴⁾	208193	208197	208201	208205	208209	208213	208216	208219	208222	208225	267214
RAC 500 ^{5) 6)}	208194	208198	208202	208206	208210	208214	208217	208220	208223	208226	271990
Complete units, standard	DILM185 -S/22(...)	DILM225 -S/22(...)	DILM250 -S/22(...)	DILM300 -S/22(...)	DILM400 -S/22(...)	DILM500 -S/22(...)					
	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾					
Voltage version	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list					
110-120V 50/60Hz	274182	274186	274189	274192	274195	274198					
220-240V 50/60Hz	274185	274187	274190	274193	274196	274199					
Complete units Standard with springloaded terminals	DILMC185 -S/22(...)	DILMC225 -S/22(...)	DILMC250 -S/22(...)	DILMC300 -S/22(...)	DILMC400 -S/22(...)	DILMC500 -S/22(...)					
	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾					
Voltage version	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list					
110-120V 50/60Hz	274310	274313	274316	274319	274322	274325					
220-240V 50/60Hz	274311	274314	274317	274320	274323	274326					
Electronics module incl. coils for comfort version	DILM250-XSP/E(...)		DILM500-XSP/E(...)			DILM820-XSP/E(...)					
	Article no. ¹⁾		Article no. ¹⁾			Article no. ¹⁾					
Voltage version	Price/See price list		Price/See price list			Price/See price list					
RDC 48 ²⁾	208250		208254								
RA 110 ³⁾	208251		208255			208258					
RA 250 ⁴⁾	208252		208256			208259					
RAC 500 ^{5) 6)}	208253		208257			208260					
Electronics module incl. coils for standard version	DILM250-S-XSP/E(...)		DILM500-S-XSP/E(...)								
	Article no. ¹⁾		Article no. ¹⁾								
Voltage version	Price/See price list		Price/See price list								
110-120V 50/60Hz	274201		274204								
220-240V 50/60Hz	274202		274205								

Notes

- ¹⁾ The Article no. is formed from the combination of type and actuating voltage.
- ²⁾ 24 – 48 V DC
- ³⁾ 48 – 110 V 40 – 60 Hz/48 – 110 V DC
- ⁴⁾ 110 – 250 V 40 – 60 Hz/110 – 250 V DC
- ⁵⁾ 250 – 500 V 40 – 60 Hz
- ⁶⁾ DC on request



5/78 Actuating voltages

Contactors for three-phase capacitors

Moeller HPL0211-2004/2005

AC	DIL00MK-11 (...)	DIL00MK-02 (...)	DIL0MK-10 (...)	DIL1MK-10 (...)	DIL2MK-10 (...)	DIL2MKV-00 (...)	DIL3MK72/22 (...)	J-DIL3MK(...)
	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾
Standard voltages	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
24 V 50 Hz	057421	076613	014710	083527	043187	049804	209967	065772
48 V 50 Hz	083524	064391	040813	057424	069290	049816	209968	065773
240V 50Hz	050302	075986	009964	090646	036068	049801	209969	065774
500 V 50 Hz	090643	066481	045559	052678	076409	049819	209970	065775
24 V 60 Hz	059794	076733	017083	081154	040814	049805	209971	065776
115 V 60 Hz	036064	074495	093018	005219	021830	049793	209972	065777
42 V 50 Hz, 48 V 60 Hz	047019	047030	047041	047051	047061	047071	209973	065778
110 V 50 Hz, 120 V 60 Hz	047020	047031	047042	047052	047062	047072	209974	065779
190 V 50 Hz, 220 V 60 Hz	047021	047032	047043	047053	047063	047073	209975	065780
220 V 50 Hz, 240 V 60 Hz	047022	047033	047044	047054	047064	047074	209976	065781
230 V 50 Hz, 240 V 60 Hz	047023	047034	047045	047055	047065	047075	209977	065782
380 V 50 Hz, 440 V 60 Hz	047024	047035	047046	047056	047066	047076	209978	065783
400 V 50 Hz, 440 V 60 Hz	047025	047036	047047	047057	047067	047077	209979	065784
415 V 50 Hz, 480 V 60 Hz	047026	047037	047048	047058	047068	047078	209980	065785
24 V 50/60 Hz	055048	076494	012337	085900	045560	049803	209981	065786
42 V 50/60 Hz	047027	047038	031321	069289	062171	049811	209982	065787
110 V 50/60 Hz	031318	074280	085899	012338	014711	049790	209983	065788
230 V 50/60 Hz	046399	046051	048138	048368	049950	049799	209984	065789
380 V 50/60 Hz	066913	076886	021829	076408	052679	049807	209985	065790
Non-standard voltages with the exception of the previously stated standard voltages ²⁾	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
...V 50Hz (12 – 600V)	926572	926337	981153	–	–	–	–	–
...V 50Hz (24 – 600V)	–	–	–	983526	971661	993681	209986	908159
...V 60Hz (12 – 600V)	928945	928710	978780	–	–	–	–	–
...V 60Hz (24 – 600V)	–	–	–	976407	974034	993682	209987	908160

Notes

¹⁾ The article no. is formed from the combination of type and actuating voltage.

Devices with dual-voltage coils must be ordered using one order number.

²⁾ When ordering non-standard voltages, state the required actuating voltage from the selected range (...–...V).



Moeller HPL0211-2004/2005

AC	SDAINLM12	SDAINLM16	SDAINLM22	SDAINLM30	SDAINLM45	SDAINLM55
	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾
Standard voltages	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
12 V 50 Hz	278275	278300	278325	–	–	–
24 V 50 Hz	278276	278301	278326	278351	278376	278401
48 V 50 Hz	278277	278302	278327	278352	278377	278402
240V 50Hz	278278	278303	278328	278353	278378	278403
500 V 50 Hz	283365	283367	283369	283371	283373	283375
24 V 60 Hz	278279	278304	278329	278354	278379	278404
110 V 60 Hz	278280	278305	278330	278355	278380	278405
115 V 60 Hz	278281	278306	278331	278356	278381	278406
208 V 60 Hz	283366	283368	283370	283372	283374	283376
600 V 60 Hz	–	–	–	–	–	–
42V 50Hz 48V 60Hz	278282	278307	278332	278357	278382	278407
110V 50Hz 120V 60Hz	278283	278308	278333	278358	278383	278408
190V 50Hz 220V 60Hz	278284	278309	278334	278359	278384	278409
220V 50Hz 240V 60Hz	278285	278310	278335	278360	278385	278410
230V 50Hz 240V 60Hz	278286	278311	278336	278361	278386	278411
380V 50Hz 440V 60Hz	278287	278312	278337	278362	278387	278412
400V 50Hz 440V 60Hz	278288	278313	278338	278363	278388	278413
415V 50Hz 480V 60Hz	278289	278314	278339	278364	278389	278414
24V 50Hz/60Hz	278290	278315	278340	278365	278390	278415
42V 50Hz/60Hz	278291	278316	278341	278366	278391	278416
110V 50Hz/60Hz	278292	278317	278342	278367	278392	278417
220V 50Hz/60Hz	278293	278318	278343	278368	278393	278418
230V 50Hz/60Hz	278294	278319	278344	278369	278394	278419
380V 50Hz/60Hz	278295	278320	278345	278370	278395	278420
Non-standard voltages with the exception of the previously stated standard voltages ²⁾	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
...V 50Hz (12 – 600V)	278298	278323	278348	–	–	–
...V 60Hz (12 – 600V)	278299	278324	278349	–	–	–
...V 50Hz (24 – 600V)	–	–	–	278373	278398	278423
...V 60Hz (24 – 600V)	–	–	–	278374	278399	278424

Notes

- 1) The article no. is formed from the combination of type and actuating voltage.
- 2) When ordering non-standard voltages, state the required actuating voltage from the selected range (...-...V).



AC	SDAINLEM(...)	SDAINL00AM(...)	SDAINL0M(...)	SDAINL0AM(...)	SDAINL1M(...)	SDAINL1AM(...)
	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾
Standard voltages	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
12 V 50 Hz	068298	–	–	–	–	–
24 V 50 Hz	000310	087856	000059	030907	021418	054639
48 V 50 Hz	000333	007175	021416	052264	045148	075996
240V 50Hz	000516	091577	058356	022761	019045	077340
24 V 60 Hz	000327	085483	099724	028534	023791	052266
110 V 60 Hz	000483	–	–	–	–	–
115 V 60 Hz	000508	047081	047092	047103	047114	047125
42 V 50 Hz, 48 V 60 Hz	051836	047082	047093	047104	047115	047126
110 V 50 Hz, 120 V 60 Hz	051837	047083	047094	047105	047116	047127
190 V 50 Hz, 220 V 60 Hz	051838	047084	047095	047106	047117	047128
220 V 50 Hz, 240 V 60 Hz	051839	047085	047096	047107	047118	047129
230 V 50 Hz, 240 V 60 Hz	051840	047086	047097	047108	047119	047130
380 V 50 Hz, 440 V 60 Hz	051841	047087	047098	047109	047120	047131
400 V 50 Hz, 440 V 60 Hz	051842	047088	047099	047110	047121	047132
415 V 50 Hz	051843	047089	047100	047111	047122	047133
Non-standard voltages with the exception of the previously stated standard voltages ²⁾	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
...V 50Hz (12 – 440V)	–	984458	953610	927507	–	–
...V 50Hz (24 – 440V)	–	–	–	–	918985	970221
...V 60Hz (12 – 440V)	–	986831	951237	929880	–	–
...V 60Hz (24 – 440V)	–	–	–	–	921358	972594

Notes

¹⁾ The article no. is formed from the combination of type and actuating voltage.
Devices with **dual-voltage coils** must be ordered using **one** order number.

²⁾ When ordering non-standard voltages, state the required actuating voltage from the selected range (...–...V).



SDAINL2M to SDAINL4AM250 open contactor combinations

Moeller HPL0211-2004/2005

AC	SDAINL2M(...)	SDAINL2AM(...)	SDAINL3M125(...)	SDAINL3AM150(...)	SDAINL4M180(...)	SDAINL4AM250(...)
	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾
Standard voltages	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
24 V 50 Hz	085491	087863	215370	215385	215400	215415
48 V 50 Hz	064134	014301	215377	215392	215407	215422
240V 50Hz	098697	085490	215372	215387	215402	215417
24 V 60 Hz	087864	094982	215371	215386	215401	215416
115 V 60 Hz	047136	047147	215366	215381	215396	215411
42 V 50 Hz, 48 V 60 Hz	047137	047148	215376	215391	215406	215421
110 V 50 Hz, 120 V 60 Hz	047138	047149	215365	215380	215395	215410
190 V 50 Hz, 220 V 60 Hz	047139	047150	215367	215382	215397	215412
220 V 50 Hz, 240 V 60 Hz	047140	047151	215368	215383	215398	215413
230 V 50 Hz, 240 V 60 Hz	047141	047152	215369	215384	215399	215414
380 V 50 Hz, 440 V 60 Hz	047142	047153	215373	215388	215403	215418
400 V 50 Hz, 440 V 60 Hz	047143	047154	215374	215389	215404	215419
415 V 50 Hz	047144	047155	215375	215390	215405	215420
Non-standard voltages with the exception of the previously stated standard voltages ²⁾	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
...V 50Hz (24 – 440V)	913270	973625	215363	215378	215393	215408
...V 60Hz (24 – 440V)	915643	975998	215364	215379	215394	215409

Notes

¹⁾ The article no. is formed from the combination of type and actuating voltage.

Devices with **dual-voltage coils** must be ordered using **one** order number.

²⁾ When ordering non-standard voltages, state the required actuating voltage from the selected range (...-...V).





AC	DIULM7/21	DIULM9/21	DIULM12/21	DIULM17/21	DIULM25/21	DIULM32/21	DIULM40/11	DIULM50/11	DIULM65/11
	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾
Standard voltages	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
12 V 50 Hz	278050	278075	278100	–	–	–	–	–	–
24 V 50 Hz	278051	278076	278101	278126	278151	278176	278200	278225	278250
48 V 50 Hz	278052	278077	278102	278127	278152	278177	278201	278226	278251
240V 50Hz	278053	278078	278103	278128	278153	278178	278202	278227	278252
500 V 50 Hz	283350	283352	283354	283356	283358	283360	278203	278228	278253
24 V 60 Hz	278054	278079	278104	278129	278154	278179	278204	278229	278254
110 V 60 Hz	278055	278080	278105	278130	278155	278180	278205	278230	278255
115 V 60 Hz	278056	278081	278106	278131	278156	278181	278206	278231	278256
208 V 60 Hz	283351	283353	283355	283357	283359	283361	283362	283363	283364
600 V 60 Hz	–	–	–	–	–	–	–	–	–
42V 50Hz 48V 60Hz	278057	278082	278107	278132	278157	278182	278207	278232	278257
110V 50Hz 120V 60Hz	278058	278083	278108	278133	278158	278183	278208	278233	278258
190V 50Hz 220V 60Hz	278059	278084	278109	278134	278159	278184	278209	278234	278259
220V 50Hz 240V 60Hz	278060	278085	278110	278135	278160	278185	278210	278235	278260
230V 50Hz 240V 60Hz	278061	278086	278111	278136	278161	278186	278211	278236	278261
380V 50Hz 440V 60Hz	278062	278087	278112	278137	278162	278187	278212	278237	278262
400V 50Hz 440V 60Hz	278063	278088	278113	278138	278163	278188	278213	278238	278263
415V 50Hz 480V 60Hz	278064	278089	278114	278139	278164	278189	278214	278239	278264
24V 50Hz/60Hz	278065	278090	278115	278140	278165	278190	278215	278240	278265
42V 50Hz/60Hz	278066	278091	278116	278141	278166	278191	278216	278241	278266
110V 50Hz/60Hz	278067	278092	278117	278142	278167	278192	278217	278242	278267
220V 50Hz/60Hz	278068	278093	278118	278143	278168	278193	278218	278243	278268
230V 50Hz/60Hz	278069	278094	278119	278144	278169	278194	278219	278244	278269
380V 50Hz/60Hz	278070	278095	278120	278145	278170	278195	278220	278245	278270
Non-standard voltages with the exception of the previously stated standard voltages ²⁾	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
...V 50Hz (12 – 600V)	278073	278098	278123	–	–	–	–	–	–
...V 60Hz (12 – 600V)	278074	278099	278124	–	–	–	–	–	–
...V 50Hz (24 – 600V)	–	–	–	278148	278173	278198	278223	278248	278273
...V 60Hz (24 – 600V)	–	–	–	278149	278174	278199	278224	278249	278274

Notes

- ¹⁾ The article no. is formed from the combination of type and actuating voltage.
 - ²⁾ When ordering non-standard voltages, state the required actuating voltage from the selected range (...–...V).
- Availability of DIULM40/11... to DIULM65/11...: from December 2004**

DIULEEM to DIUL4AM145 open contactor combinations

Moeller HPL0211-2004/2005

AC	DIUL EEM/21 /MV(...)	DIUL EM/21 /MV(...)	DIUL 00AM /11(...)	DIUL 0M/11 (...)	DIUL 0AM/11 (...)	DIUL 1AM/11 (...)	DIUL 2AM/11 (...)	DIUL 3M80/11 (...)	DIUL 3AM85/11 (...)	DIUL 4M115/11 (...)	DIUL 4AM145/ 11(...)
	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾
Standard voltages	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
12 V 50 Hz	068299	068300	–	–	–	–	–	–	–	–	–
24 V 50 Hz	051662	000073	042762	049883	009542	035646	019036	209798	209813	209828	209843
48 V 50 Hz	051654	000105	064119	071240	030899	057003	040393	209799	209814	209829	215215
240V 50Hz	051663	000215	035643	042764	002423	028527	011917	209800	209815	209830	209845
24 V 60 Hz	051661	000074	040389	047510	007169	033273	016663	209801	209816	209831	209846
110 V 60 Hz	051667	000127	–	–	–	–	–	–	–	–	–
115 V 60 Hz	051656	000128	047210	047221	047232	047243	047254	209802	209817	209832	209847
42 V 50 Hz, 48 V 60 Hz	051655	051845	047211	047222	047233	047244	047255	209803	209818	209833	209848
110 V 50 Hz, 120 V 60 Hz	051668	051846	047212	047223	047234	047245	047256	209804	209819	209834	209849
190 V 50 Hz, 220 V 60 Hz	051666	051847	047213	047224	047235	047246	047257	209805	209820	209835	209850
220 V 50 Hz, 240 V 60 Hz	051665	051848	047214	047225	047236	047247	047258	209806	209821	209836	209851
230 V 50 Hz, 240 V 60 Hz	051664	051849	047215	047226	047237	047248	047259	209807	209822	209837	209852
380 V 50 Hz, 440 V 60 Hz	051659	051850	047216	047227	047238	047249	047260	209808	209823	209838	209853
400 V 50 Hz, 440 V 60 Hz	051658	051851	047217	047228	047239	047250	047261	209809	209824	209839	209854
415 V 50 Hz, 480 V 60 Hz	051657	051852	047218	047229	047240	047251	047262	209810	209825	209840	209855
Non-standard voltageswith the exception of the previously stated standard voltages ²⁾	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
...V 50Hz (12 – 600V)	–	–	926151	933272	994969	–	–	–	–	–	–
...V 50Hz (24 – 600V)	–	–	–	–	–	919035	902425	209811	209826	209841	209856
...V 60Hz (12 – 600V)	–	–	928524	935645	997342	–	–	–	–	–	–
...V 60Hz (24 – 600V)	–	–	–	–	–	921408	904798	209812	209827	209842	209857

Notes

- ¹⁾ The article no. is formed from the combination of type and actuating voltage.
Devices with **dual-voltage coils** must be ordered using **one** order number.
- ²⁾ When ordering non-standard voltages, state the required actuating voltage from the selected range (...–...V).





AC	J-DIL00M(...)	J-DIL00M-C(...) ³⁾	J-DIL00M-C(...-Z) ³⁾	J-DIL0M(...)	J-DIL1M(...)	J-DIL2M(...)	J-DIL3M(...)	J-DIL4M(...)
	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾
Standard voltages	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
24 V 50 Hz	000079	232045	232070	061777	097373	057034	050843	062815
48 V 50 Hz	023809	232046	–	057031	000081	052288	051144	062816
240V 50Hz	066693	232047	–	093006	097752	005206	052232	062817
500 V 50 Hz	080760	232048	–	047539	009573	042796	052504	062818
24 V 60 Hz	099744	232049	–	064150	026184	059407	053518	062819
115 V 60 Hz	043837	232050	–	047435	047447	047937	053594	062820
42 V 50 Hz, 48 V 60 Hz	043829	232051	232071	047436	047448	048014	048918	048929
110 V 50 Hz, 120 V 60 Hz	043830	232052	232072	047437	047449	048015	048919	048930
190 V 50 Hz, 220 V 60 Hz	043831	232053	–	047438	047450	048016	048920	048931
220 V 50 Hz, 240 V 60 Hz	043832	232054	–	047439	047451	048151	048921	048932
230 V 50 Hz, 240 V 60 Hz	043833	232055	232073	047440	047452	048233	048922	048933
380 V 50 Hz, 440 V 60 Hz	043834	232056	–	047441	047453	048398	048923	048934
400 V 50 Hz, 440 V 60 Hz	043835	232057	–	047442	047454	048486	048924	048935
415 V 50 Hz, 480 V 60 Hz	043836	232058	–	047443	047455	048772	048925	048936
24 V 50/60 Hz	002452	232059	–	030928	028557	090256	055397	062838
42 V 50/60 Hz	011944	232060	–	033301	030930	087883	055481	062839
110 V 50/60 Hz	085506	232061	–	038047	035676	083137	055568	062841
230 V 50/60 Hz	051352	232062	232074	050193	050194	050195	050196	050197
380 V 50/60 Hz	004825	232063	–	042793	040422	078391	055891	062843
Non-standard voltages with the exception of the previously stated standard voltages ²⁾	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
...V 50Hz (12 – 600V)	910098	–	–	910100	–	–	–	–
...V 50Hz (24 – 600V)	–	–	–	–	910102	910104	903222	962845
...V 60Hz (12 – 600V)	910099	–	–	910101	–	–	–	–
...V 60Hz (24 – 600V)	–	–	–	–	910103	910105	903221	962846
DC	G-DIL00M(...)	G-DIL00M-C(...) ³⁾	G-DIL00M-C(...-Z) ³⁾	G-DIL0M(...)	G-DIL1M(...)	G-DIL2M(...)	G-DIL3M(...)	G-DIL4M(...)
	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾
Standard voltages	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
24 V DC	048557	232065	232075	063206	063211	063216	063221	063226
48 V DC	048558	232066	–	063207	063212	063217	063222	063227
60V DC	048559	232067	–	063208	063213	063218	063223	063228
110V DC	048555	232068	–	063204	063209	063214	063219	063224
220V DC	048556	232069	–	063205	063210	063215	063220	063225
Non-standard voltages with the exception of the previously stated standard voltages ²⁾	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list	Price/See price list
...V DC (12 – 250V)	910110	–	–	910111	910112	910113	–	–
...V DC (24 – 250V)	–	–	–	–	–	–	910114	910115

Notes

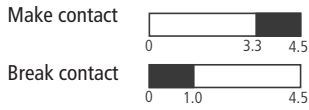
- ¹⁾ The article no. is formed from the combination of type and actuating voltage. Devices with **dual-voltage coils** must be ordered using **one** order number.
- ²⁾ When ordering non-standard voltages, state the required actuating voltage from the selected range (...–...V).
- ³⁾ With springloaded terminal.

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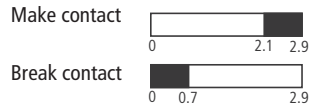
Contactor contact travel diagrams

The diagrams indicate the closing and opening travel of the contacts of the contactors and auxiliary contacts at no-load. Tolerances are not taken into consideration.

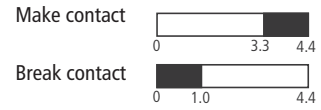
DILM(C)7/9/12-...AC



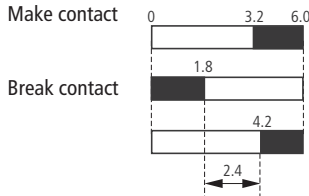
DILM(C)7/9-...DC



DILM(P)(C)(20)12-...DC



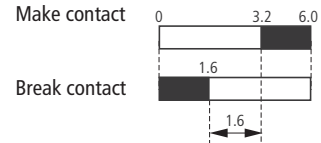
DIL(C)17/25/32



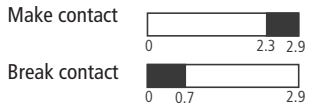
DILM(C)40/50/65



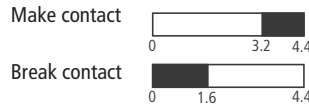
DILM32-XHI(C)...



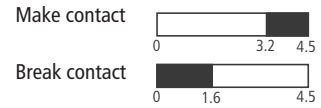
DILA-XHI(C)... with DILM7(C).../DILM9(C)...DC



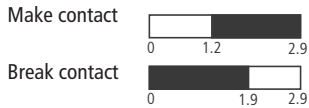
DILA-XHI(C)... with DILMP20.../



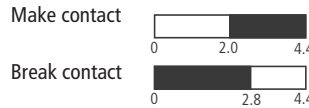
DILA-XHI(C)... with DILM(C)7/9/12-... AC



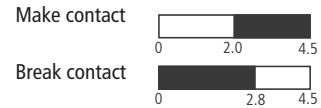
DILA-XHI(C)V... with DILM7(C).../DILM9(C)...DC



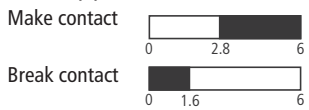
DILA-XHI(C)V... with DILMP20.../DILM12(C)...DC



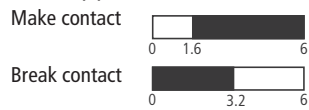
DILA-XHI(C)V... with DILM(C)7/9/12-... AC



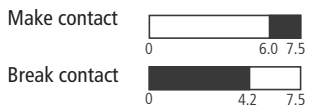
DILA-XHI(C)... with DILM17(C)..to DILM32(C)...AC/DC



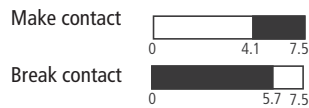
DILA-XHI(C)V... with DILM17(C).. to DILM32(C)...AC/DC



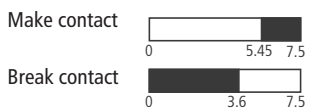
DILM150-XHI(C)...



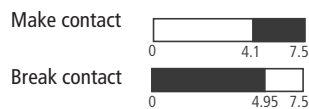
DILM150-XHI(C)V...



DILM1000-XHI(C)...



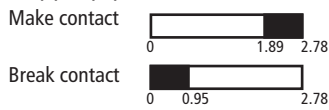
DILM1000-XHI(C)V...



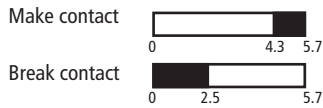
Contactor contact travel diagrams

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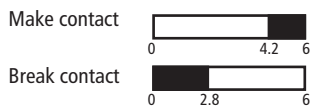
DIL(E)EM(-C)...AC



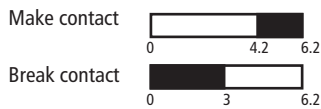
DIL00(A)M(-C); DIL00(A)M(-C) + ...DIL(M)(-C)



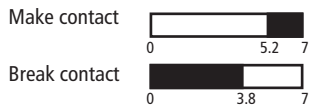
DIL0(A)M; DIL0(A)M + ...DIL(M)



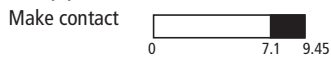
DIL1(A)M; DIL1(A)M + ...DIL(M)



DIL2(A)M; DIL2(A)M + ...DIL(M)



DIL3(A)M80/85



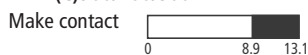
DIL4(A)M115/145



DILM(C)185/225/250



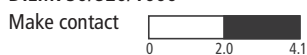
DILM(C)300/400/500



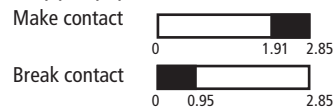
DILM580/650



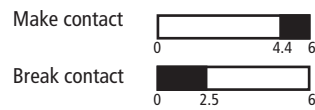
DILM750/820/1000



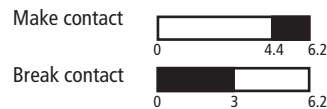
DIL(E)EM(-C)...DC



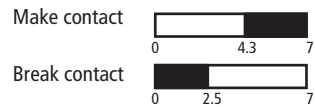
DIL0(A)M + ...SDILM + DILM820-XHI11-SI



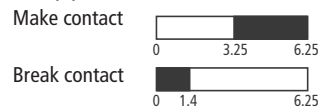
DIL1(A)M + ...SDILM + DILM820-XHI11-SI



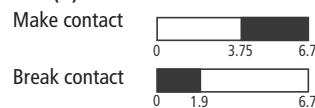
DIL2(A)M + ...SDILM + DILM820-XHI11-SI



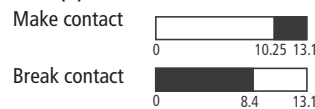
DIL3(A)M80/85 + DILM820-XHI11



DIL4(A)M115/145 + DILM820-XHI11



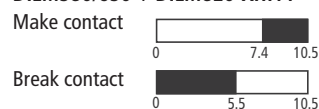
DILM(C)185/225/250 + DILM820-XHI(C)11



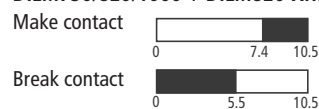
DILM(C)300/400/500 + DILM820-XHI(C)11



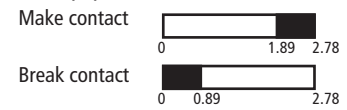
DILM580/650 + DILM820-XHI11



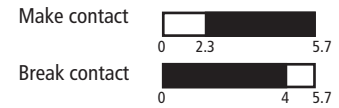
DILM750/820/1000 + DILM820-XHI11



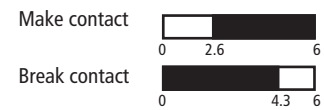
..DILE(-C)



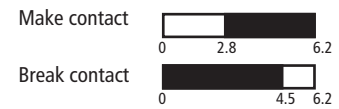
DIL00(A)M (-C)+ ...DDILM(-C)



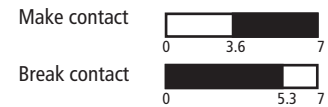
DIL0(A)M + ...DDILM



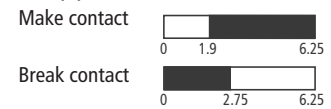
DIL1(A)M + ...DDILM



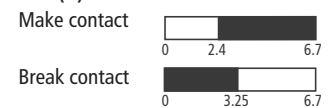
DIL2(A)M + ...DDILM



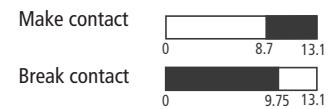
DIL3(A)M80/85 + DILM820-XHI11V-SI



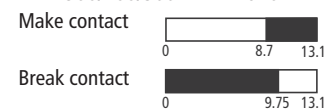
DIL4(A)M115/145 + DILM820-XHI11V-SI



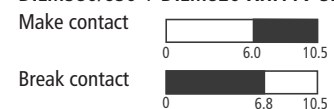
DILM185/225/250 + DILM820-XHI11V-SI



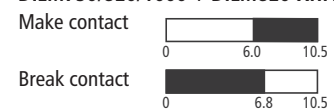
DILM300/400/500 + DILM820-XHI11V-SI



DILM580/650 + DILM820-XHI11V-SI

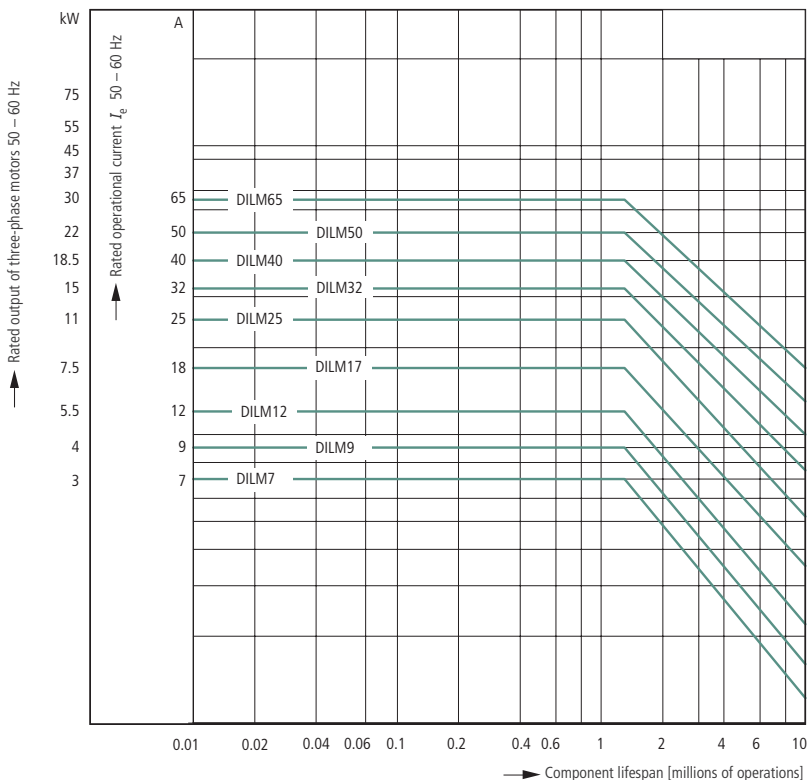


DILM750/820/1000 + DILM820-XHI11V-SI



Moeller HPL0211-2004/2005

Normal switching duty

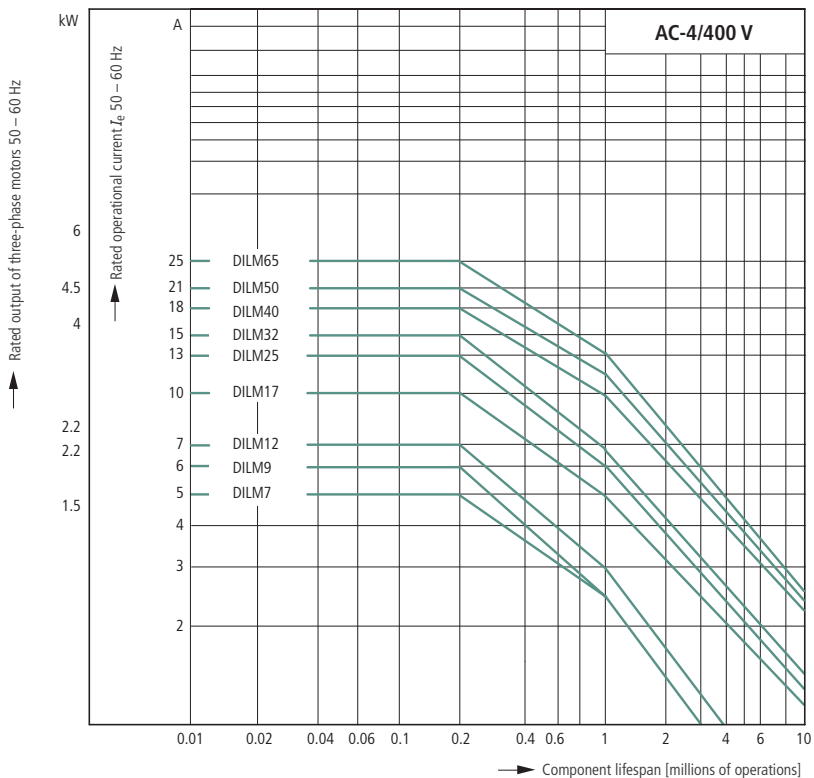


Squirrel-cage motors

- Operating characteristics
 - Starting: from rest
 - Stopping: after attaining full running speed
- Electrical characteristics
 - Make: up to $6 \times$ rated motor current
 - Break: $1 \times$ rated motor current
- Utilization category: 100 % AC-3
- Typical applications

Compressors	Lifts	Mixers
Pumps	Escalators	Agitators
Fans	Conveyor belts	Centrifuges
Hinged flaps/valves	Bucket-elevators	Air-conditioning systems
- General drives in manufacturing and processing machines

Extreme switching duty

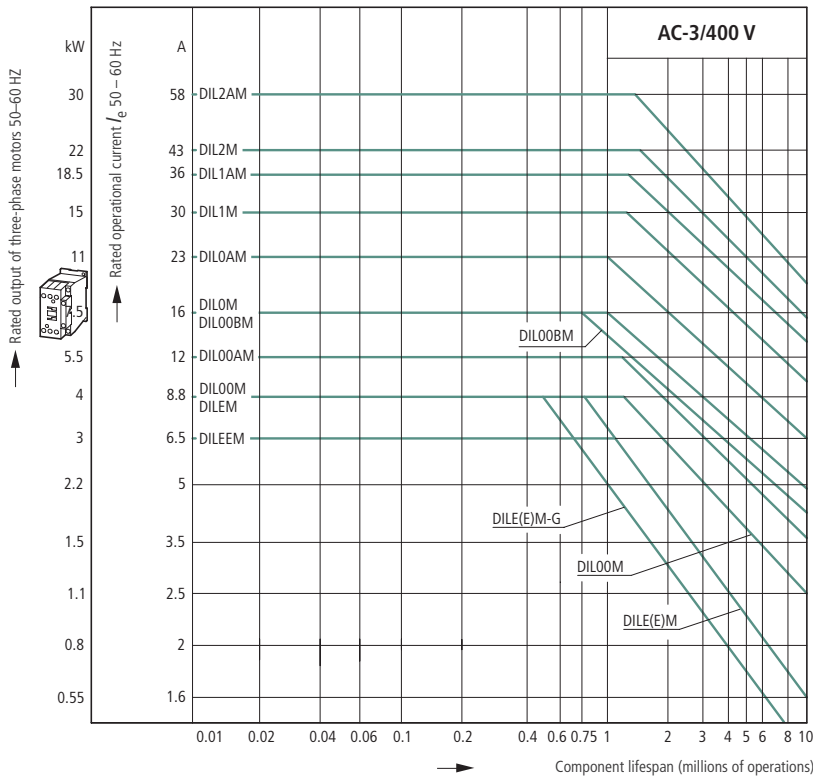


Squirrel-cage motors

- Operating characteristics
 - Jogging, plugging, reversing
- Electrical characteristics
 - Make: up to $6 \times$ rated motor current
 - Break: $6 \times$ rated motor current
- Utilization category: 100 % AC-4
- Typical applications

Printing presses	Wire drawing machines	Centrifuges
------------------	-----------------------	-------------
- Special drives for manufacturing and processing machines

Normal switching duty



Squirrel-cage motors

Operating characteristics

Starting: from rest

Stopping: after attaining full running speed

Electrical characteristics

Make: up to $6 \times$ rated motor current

Break: $1 \times$ rated motor current

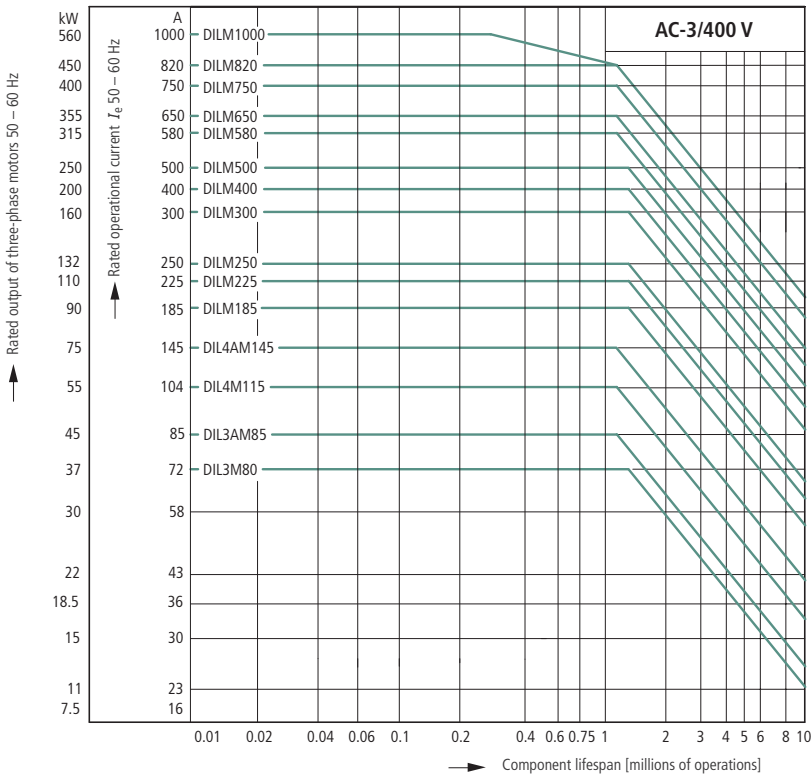
Utilization category

100 % AC-3

Typical applications

Compressors	Lifts	Mixers
Pumps	Escalators	Agitators
Fans	Conveyor belts	Centrifuges
Hinged flaps	Bucket-elevators	Air-conditioning systems

General drives in manufacturing and processing machines



Moeller HPL0211-2004/2005

Extreme switching duty

Squirrel-cage motors

Operating characteristics

Jogging, plugging, reversing

Electrical characteristics

Make: up to 6 × rated motor current

Break: 6 × rated motor current

Utilization category

100 % AC-4

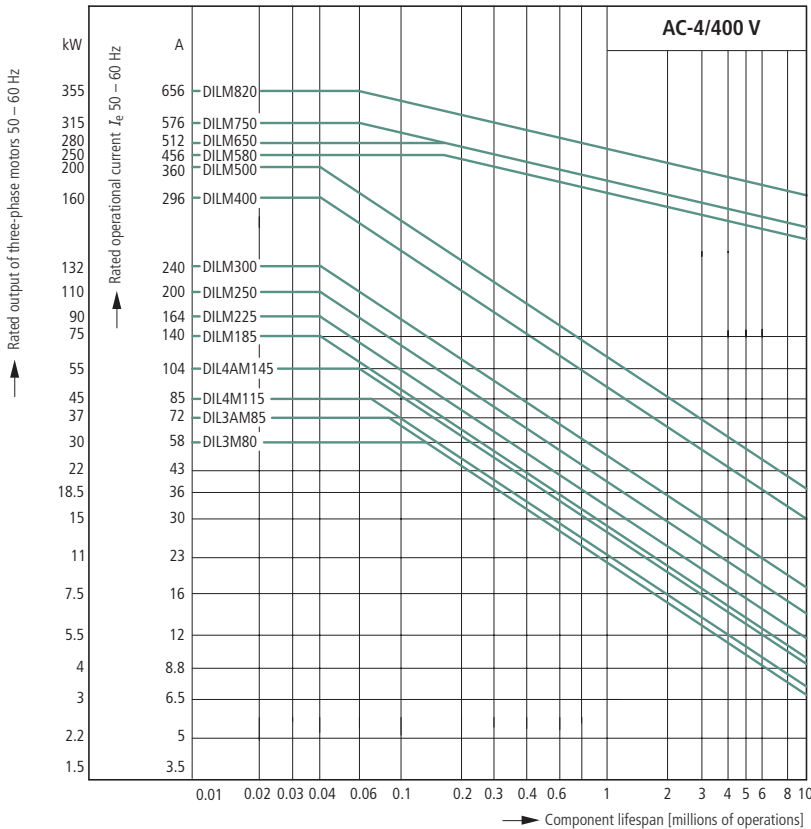
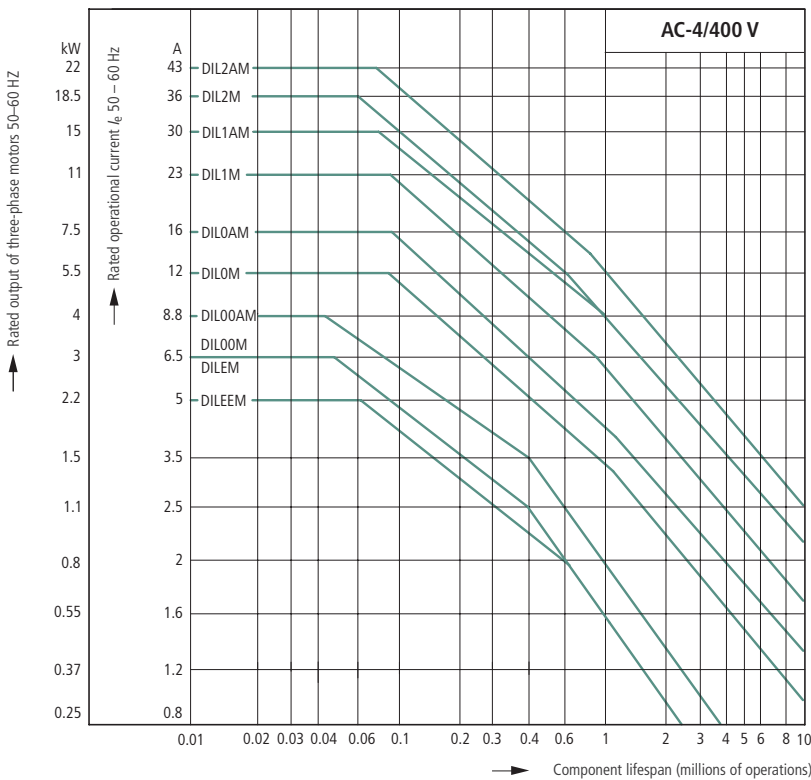
Typical applications

Printing presses

Wire-drawing

Centrifuges

Special drives for manufacturing and processing machines



Switching duty for non-motor loads, 3-pole, 4-pole

Operating characteristics

Non-inductive or slightly inductive loads

Typical applications

Electrical heaters

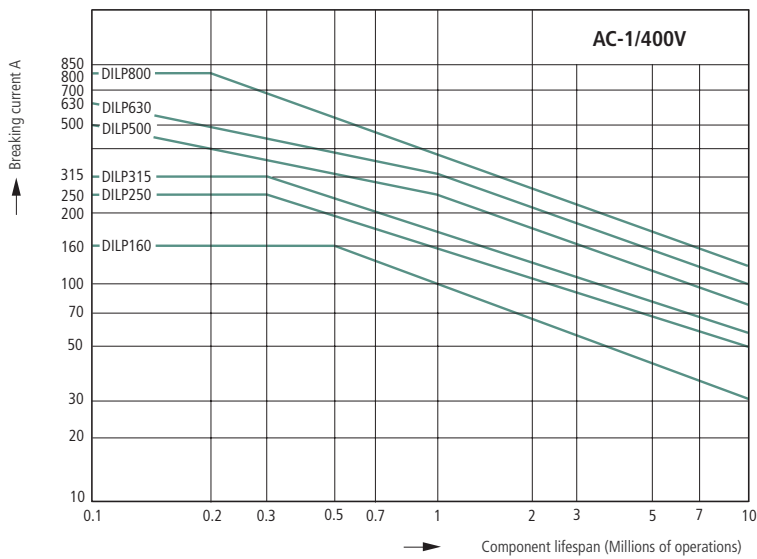
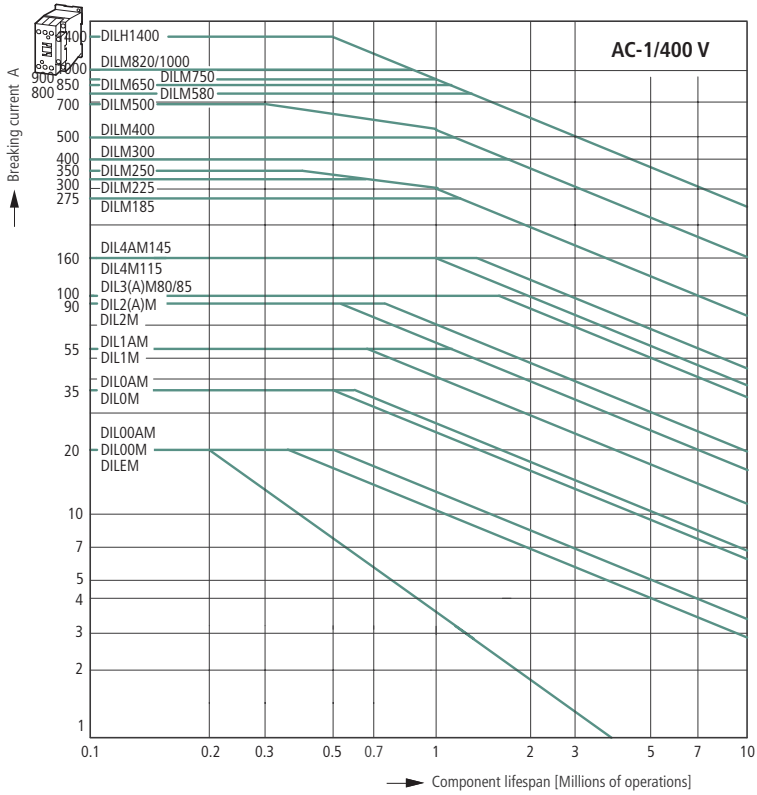
Electrical characteristics

Make: 1 × rated current

Break: 1 × rated current

Utilization category

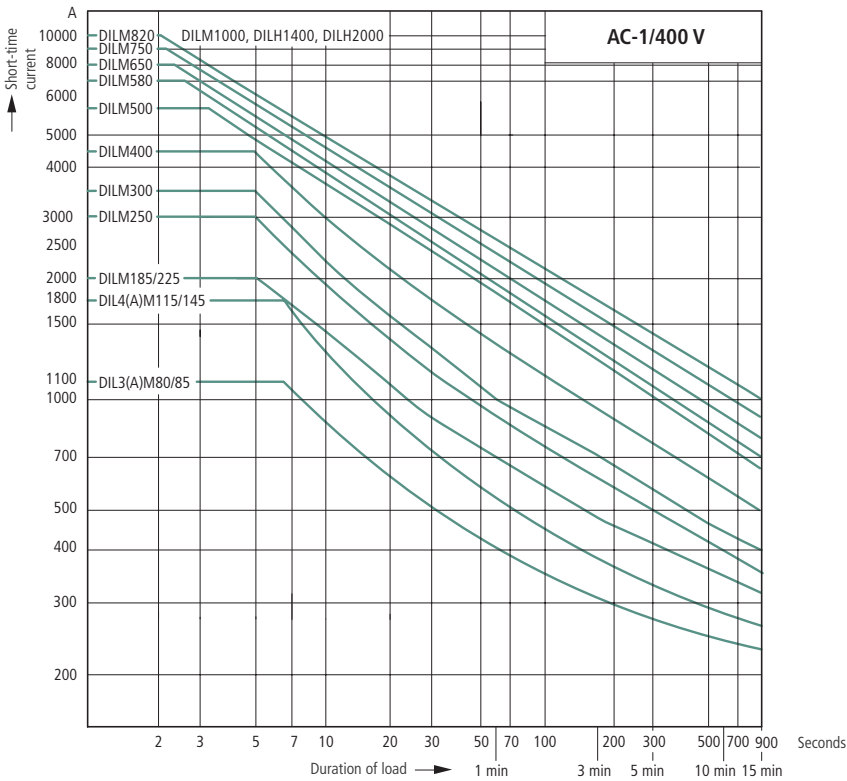
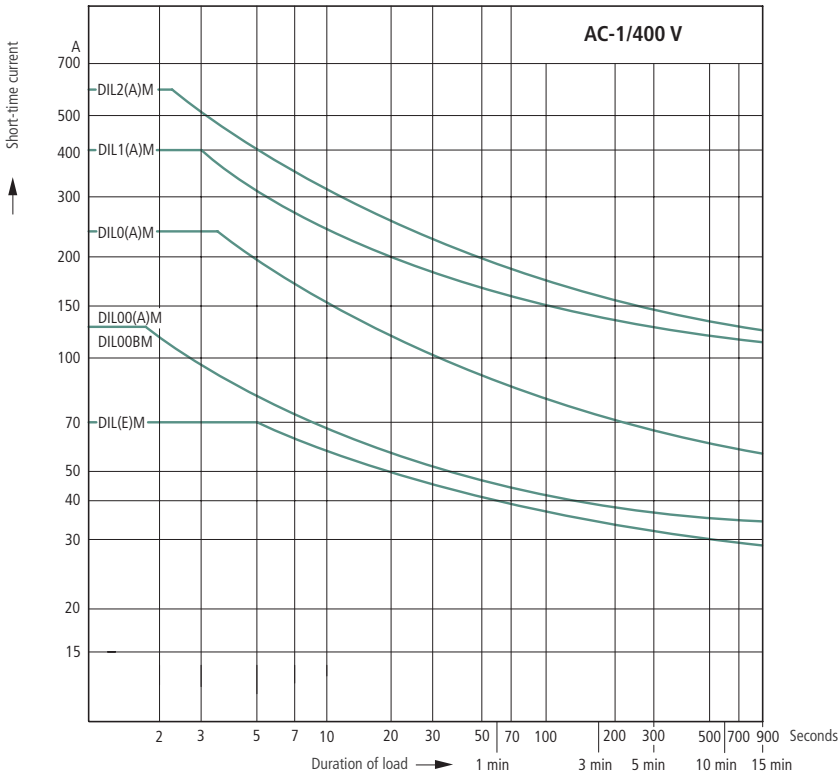
100 % AC-1



Moeller HPL0211-2004/2005

Short-time loading, 3-pole

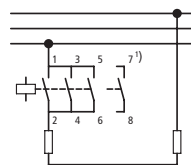
Time interval between two loading cycles: 15 minutes



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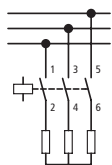
Rating data

Single-phase rating AC-1



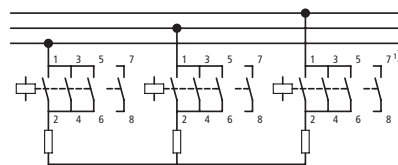
Voltage in V			Max. backup fuse gG/gL	Rated operational current $I_e = I_{th}$ or I_{the}
220	380	660		
230	400	690		
240	440			
kW	kW	kW	A	A

Three-phase rating AC-1



Voltage in V			Max. backup fuse gG/gL	Rated operational current $I_e = I_{th}$ or I_{the}
220	380	660		
230	400	690		
240	440			
kW	kW	kW	A	A

Three-phase rating AC-1



Voltage in V			Max. backup fuse gG/gL	Rated operational current $I_e = I_{th}$ or I_{the}
220	380	660		
230	400	690		
240	440			
kW	kW	kW	A	A

Open version														
10	18	31	50	50	7	13	20	20	20	18	31	54	50	50
10	18	31	50	50	7	13	20	20	20	18	31	54	50	50
12	21	37	63	60	-	-	-	-	-	21	37	65	63	60
10	18	31	50	50	7	13	20	20	20	18	31	54	50	50
12	21	37	63	60	-	-	-	-	-	21	37	65	63	60
17	30	53	80	85	12.5	22	35	35	35	30	53	90	80	85
30	50	85	125	140	20	35	60	63	55	50	85	150	125	140
47	81	141	200	225	32	56	95	100	90	81	137	243	200	225
52	90	156	250	250	35	62	108	100	100	-	-	-	-	-
52	90	156	250	250	35	62	108	100	100	-	-	-	-	-
83	144	250	400	400	58	100	174	160	160	-	-	-	-	-
83	144	250	400	400	58	100	174	160	160	-	-	-	-	-
144	248	431	800	688	100	172	299	315	275	-	-	-	-	-
165	284	494	800	788	114	197	342	315	315	-	-	-	-	-
183	316	549	1000	875	127	219	380	400	350	-	-	-	-	-
209	361	627	1000	1000	145	250	434	400	400	-	-	-	-	-
261	451	784	1250	1250	181	313	543	500	500	-	-	-	-	-
366	632	1097	-	1750	253	438	760	800	700	-	-	-	-	-
418	722	1254	-	2000	290	500	869	800	800	-	-	-	-	-
444	767	1332	-	2125	308	531	923	1000	850	-	-	-	-	-
470	812	1411	-	2250	326	563	977	1000	900	-	-	-	-	-
523	903	1568	-	2500	362	625	1086	1000	1000	-	-	-	-	-
732	1264	2195	-	3500	507	875	1520	-	1400	-	-	-	-	-
1045	1805	3135	-	5000	724	1251	2172	-	2000	-	-	-	-	-
94	162	282	500	450	57	100	173	160	160	-	-	-	-	-
146	252	438	800	700	90	156	271	250	250	-	-	-	-	-
183	317	551	1000	880	114	196	342	315	315	-	-	-	-	-
-	-	-	-	-	180	312	542	500	500	-	-	-	-	-
-	-	-	-	-	228	393	684	630	630	-	-	-	-	-
-	-	-	-	-	289	500	868	800	800	-	-	-	-	-

Enclosed version														
8	14	25	40	40	5.5	10	17	20	16	-	-	-	-	-
8	14	25	40	40	5.5	10	17	20	16	-	-	-	-	-
10	18	31	50	50	-	-	-	-	-	-	-	-	-	-
10	18	31	50	50	5.5	10	17	20	16	-	-	-	-	-
12	21	37	63	60	-	-	-	-	-	-	-	-	-	-
17	30	53	80	85	11	18	32	35	30	-	-	-	-	-
25	43	75	125	120	15	25	45	63	44	-	-	-	-	-
41	72	125	200	200	28	50	85	100	80	-	-	-	-	-

Notes 1) Contact 7 – 8 only with DILEM4(-G), DIL00M4(-G) and DILP...

Moeller HPL0211-2004/2005

Type	Ordering data	Accessories required	Notes
AC operated	DC operated	Paralleling link	
		Page	Type
DILEM-10	DILEM-10-G	a 5/63	P1DILEM
DILEM-01	DILEM-01-G	a 5/14	P1DILEM
DILEM4	DILEM4-G	a 5/63	P1DILEM
DIL00M	DIL00M-G	a 5/72	P1DIL00M
DIL00M4	DIL00M4-G	a 5/24	P1DIL00M
DIL0M	DIL0M-G	a 5/72	P1DIL0M
DIL1M	DIL1M-G	a 5/72	P1DIL1M
DIL2M	DIL2M-G	a 5/73	P1DIL2M
DIL3M80	DIL3M80	a 5/73	P1DIL3M
DIL3AM85	DIL3AM85	a 5/73	P1DIL3M
DIL4M115	DIL4M115	a 5/73	P1DIL4M
DIL4AM145	DIL4AM145	a 5/73	P1DIL4M
DILM185	DILM185	a 5/77	DILM185-XP1
DILM225	DILM225	a 5/30	-
DILM250	DILM250	a 5/30	-
DILM300	DILM300	a 5/30	-
DILM400	DILM400	a 5/30	-
DILM500	DILM500	a 5/30	-
DILM580	DILM580	a 5/30	-
DILM650	DILM650	a 5/30	-
DILM750	DILM750	a 5/77	-
DILM820	DILM820	a 5/30	-
DILH1400	-	a 5/30	-
DILH2000	-	a 5/30	-
DILP160	-	a 5/37	-
DILP250	-	a 5/37	-
DILP315	-	a 5/37	-
DILP500	-	a 5/37	-
DILP630	-	a 5/37	-
DILP800	-	a 5/37	-
DILEM-10	DILEM-10-G	a 5/14	P1DILEM
DILEM-01	DILEM-01-G	a 5/14	P1DILEM
DILEM4	DILEM4-G	a 5/63	P1DILEM
DIL00M	DIL00M-G	a 5/72	P1DIL00M
DIL00M4	DIL00M4-G	a 5/25	P1DIL00M
DIL0M	DIL0M-G	a 5/72	P1DIL0M
DIL1M	DIL1M-G	a 5/72	P1DIL1M
DIL2M	DIL2M-G	a 5/73	P1DIL2M

Accessories	Page
Paralleling link	a 5/55
Enclosure	
Accessories	a 5/54
Auxiliary contact modules	a 5/16
	a 5/34
	a 5/35
	a 5/35

Contactors





Components	Contactor selection				Insulated enclosures
	With top mounting auxiliary contacts	With side mounting auxiliary contacts	With overload relays	With paralleling links	
Type					
DLM7/9/12	-	-	-	-	CI-K2-145-TS
DLM7/9/12	K	-	K	-	CI-K3-160-TS
DILM17/25/32	-	-	-	-	CI-K2-145-TS
DILM17/25/32	K	-	K	-	on request
DIULM7/21 to DIULM12/21	K	-	-	-	CI-K4-160-TS
SDAINLM12 to SDAINLM22	K	-	-	-	CI-K5-160-TS
DIULM17/21 to DIULM65/11	K	-	-	-	on request
SDAINLM30 to SDAINLM115	K	-	-	-	on request
DILE...(-G)(-C)	-	-	-	-	CI-K1-95-TS
DILE...(-G)(-C)	K	-	-	-	CI-K2-145-TS
DILE...(-G)	K	-	K	-	CI-K2-145-AD
DILE...(-G)	-	-	-	K	CI-K2-100-TS
DILE...(-G)	K	-	-	K	CI-K2-145-TS
DIULE...	K	-	-	-	CI-K3-125-TS
DIULE...	K	-	K	-	CI-K3-125-TS
SDAINLEM...	K	-	-	-	CI-K5-125-TS CI-K5-125-M
DILR...(-G)(-C)	-	-	-	-	CI-K2-145-TS
DILR...(-C)	K	-	-	-	CI-K2-145-TS
DILR...-G(-C)	K	-	-	-	CI-K3-160-TS
DIL00(A)(B)M(4)(-G)(-C)	-	-	-	-	CI-K2-145-TS
DIL00(A)(B)M(4)(-C)	K	-	-	-	CI-K2-145-TS
DIL00(A)(B)M(4)-G(-C)	K	-	-	-	CI-K3-160-TS
DIL00(A)(B)M(4)(-G)	-	-	-	K	CI-K2-145-TS
DIL00(A)(B)M(4)	K	-	-	K	CI-K2-145-TS
DIL00(A)(B)M(4)-G	K	-	-	K	CI-K3-160-TS
DIL00(A)(B)M(4)(-G)	K	-	K	-	CI-K3-160-TS
DIL00MK	-	-	-	-	CI23E-150
DIUL00AM	K	-	K	-	CI-K4-160-TS +M-CI-K4 ¹⁾
SDAINL00AM	K	-	-	-	CI-K5-160-TS +M-CI-K5 ¹⁾
DILO(A)M	-	-	-	-	CI-K3-125-TS
DILO(A)M	K	-	-	-	CI-K3-160-TS
DILO(A)M	K	-	-	K	CI-K3-160-TS
DILO(A)M	-	K	-	-	CI-K3-125-TS
DILO(A)M	K	-	K	-	CI-K3-160-TS
DILO(A)M-G	-	-	-	-	CI23E-125
DILO(A)M-G	K	-	-	-	CI23E-150
DILO(A)M-G	K	-	-	K	CI23E-150
DILO(A)M-G	-	K	-	-	CI23E-125
DILO(A)M-G	K	-	K	-	CI23E-150

Notes

¹⁾ Use mounting rail and mounting plate

Moeller HPL0211-2004/2005

Components	Contactor selection				Insulated enclosures
	With top mounting auxiliary contacts	With side mounting auxiliary contacts	With overload relays	With paralleling links	
Type					
DIL0MK	-	-	-	-	CI23E-150
DIUL0(A)M	K	-	K	-	CI-K4-160-TS +M-CI-K4 ¹⁾
SDAINL0(A)M	K	-	-	-	CI-K5-160-TS +M-CI-K5 ¹⁾
DIL1(A)M	-	-	-	-	CI-K3-160-M
DIL1(A)M	K	-	-	-	CI-K3-160-M
DIL1(A)M	-	K	-	-	CI-K3-160-M
DIL1(A)M	K	-	-	K	CI23E-150
DIL1(A)M	K	-	K	-	CI23E-150
DIL1(A)M	-	K	K	-	CI-K5-160-M
DIL1(A)M-G	K	-	-	-	CI23E-150
DIL1(A)M-G	-	K	-	-	CI23E-150
DIL1MK	-	-	-	-	CI23E-150
DIUL1AM	K	-	K	-	CI23E-150
SDAINL1(A)M	K	-	-	-	CI43E-150
DIL2(A)M(-G)	-	-	-	-	CI23E-150
DIL2(A)M	K	-	-	-	CI23E-150
DIL2(A)M(-G)	-	K	-	-	CI23E-150
DIL2(A)M	K	-	-	K	CI43E-150
DIL2(A)M	K	-	K	-	CI43E-150
DIL2(A)M	-	K	K	-	CI43E-150
DIL2MK	-	-	-	-	CI23E-150
DIUL2AM	K	-	K	-	CI43E-150
SDAINL2AM	K	-	-	-	CI44E-150
DIL3(A)M80/85	-	-	-	-	CI43E-150
DIL3(A)M80/85	-	K	-	-	CI43E-150
DIL3MK	-	-	-	-	CI43E-150
DIL4(A)M115/145	-	-	-	-	CI43E-200
DIL4(A)M115/145	-	K	-	-	CI43E-200
DILM185	-	K	-	-	CI48-250
DILM225	-	K	-	-	CI48-250
DILM250	-	K	-	-	CI48-250
DILM300	-	K	-	-	CI48-250
DILM400	-	K	-	-	CI48-250
DILM500	-	K	-	-	CI48-250
DILM580	-	K	-	-	CI48-250
DILM650	-	K	-	-	CI48-250
DILM750	-	K	-	-	CI48-250
DILM820	-	K	-	-	CI48-250

Notes

¹⁾ Use mounting rail and mounting plate

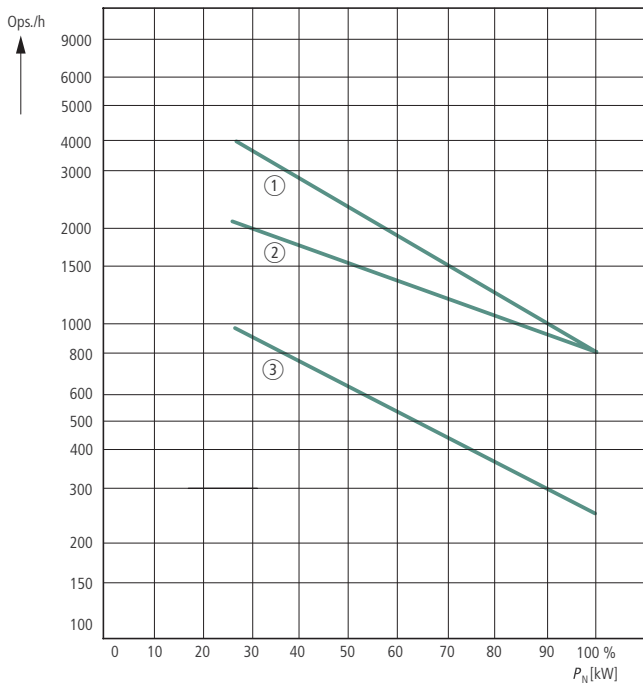
CI-K small enclosure a ; 14/4
 Terminals for CI a ; 14/8
 CI enclosure a ; 14/17

Insulated PE, N, or PEN terminals for CI enclosures a ; 14/8



Determination of the maximum number of operations per hour in relation to the rating and utilization category (approximate values) at 400 V

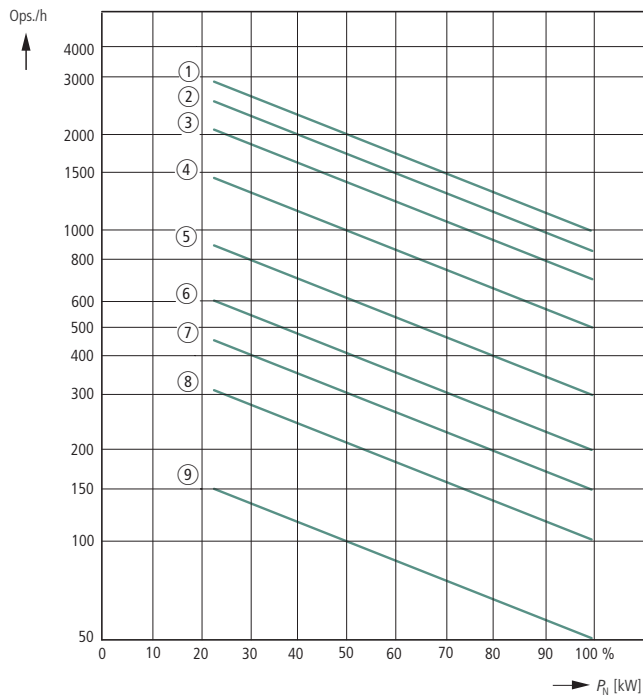
P_N = max. motor rating (kW) of the relevant contactor a page 5/2
ops./h = max. number of operations per hour



Type	AC-1 characteristic	AC-3	AC-2 AC-4
DILE(E)M	2	1	3
DIL00M(-G)	2	1	3
DIL00AM(-G)	2	1	3
DIL0M(-G)	2	1	3
DIL0AM(-G)	2	1	3
DIL1M(-G)	2	1	3
DIL1AM(-G)	2	1	3
DIL2M(-G)	2	1	3
DIL2AM(-G)	2	1	3

Determination of the maximum number of operations per hour in relation to the rating and utilization category (approximate values) at 400 V

P_N = max. motor rating (kW) of the relevant contactor a page 5/2, 3
ops./h = max. number of operations per hour



Type	AC-1 characteristic	AC-3	AC-4
DIL3M80	2	1	5
DIL3AM85	2	1	5
DIL4M115	2	3	6
DIL4AM145	2	3	6
DILM185	2	1	8
DILM225	2	1	8
DILM250	2	1	8
DILM300	3	2	9
DILM400	3	2	9
DILM500	3	2	9
DILM580	3	4	7
DILM650	3	4	7
DILM750	3	4	7
DILM820	3	4	7



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Switching DC current

----- conductor
to be installed
by customer to suit
requirement

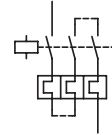
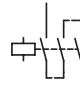
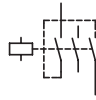
**DILM7 to DILM65
DILEEM to DILM500**

Without overload relay
 ≤ 60 V DC

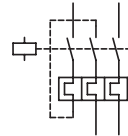
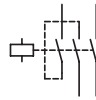
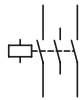
> 60 V DC

With overload relay
 > 60 V DC

1-pole

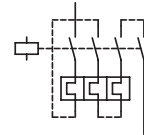
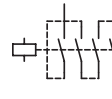


2-pole

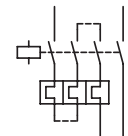
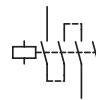



**DILEM4
DIL00M4, DILMP20
DILP160 to DILP800**

1-pole



2-pole



			DILEEM	DILEEM-G	DILEM	DILEM-G	DILEM4	DILEM4-G
General								
Standards			IEC/EN 60947, VDE 0660, CSA, UL					
Lifespan, mechanical	Operations	$\times 10^6$	10	20	10	20	20	–
Lifespan, mechanical; Coil 50/60 Hz	at 50 Hz		7	–	7	–	7	–
Maximum operating frequency								
Mechanical		Ops/h	9000	9000	9000	9000	9000	9000
Electrical (contactor without overload relay)			See characteristic curve					
Climatic proofing			Damp heat, constant, to IEC 60 068-2-78, Damp heat, cyclic, to IEC 60 068-2-30					
Ambient temperature								
Open		$^{\circ}\text{C}$	-25/50	-25/50	-25/50	-25/50	-25/50	-25/50
Enclosed		$^{\circ}\text{C}$	-25/40	-25/40	-25/40	-25/40	-25/40	-25/40
Mounting position			As required except vertical with terminals A1/A2 at the bottom					
								
Mechanical shock resistance (IEC/EN 60068-2-27)								
Half-sinusoidal shock 10 ms								
Basic unit without auxiliary contact module								
Main contacts make contact	g		10	10	10	10	10	10
Main contacts break/make contact	g		10/8	10/8	10/8	10/8	–	–
Basic unit with auxiliary contact module								
Main contacts make contact	g		10	10	10	10	10	10
Main contacts make/break contact	g		20/20	20/20	20/20	20/20	20/20	20/20
Degree of protection			IP20					
Protection against direct contact when actuated from front (IEC 536)			Finger- and back-of-hand proof					
Weight			kg					
			0.2	0.17	0.2	0.17	0.2	0.17
Terminal capacity of main and auxiliary contacts								
Solid	mm ²		1 \times (0.75 – 2.5) 2 \times (0.75 – 2.5)	1 \times (0.75 – 2.5) 2 \times (0.75 – 2.5)	1 \times (0.75 – 2.5) 2 \times (0.75 – 2.5)	1 \times (0.75 – 2.5) 2 \times (0.75 – 2.5)	1 \times (0.75 – 2.5) 2 \times (0.75 – 2.5)	1 \times (0.75 – 2.5) 2 \times (0.75 – 2.5)
Flexible with ferrule	mm ²		1 \times (0.75 – 1.5) 2 \times (0.75 – 1.5)	1 \times (0.75 – 1.5) 2 \times (0.75 – 1.5)	1 \times (0.75 – 1.5) 2 \times (0.75 – 1.5)	1 \times (0.75 – 1.5) 2 \times (0.75 – 1.5)	1 \times (0.75 – 1.5) 2 \times (0.75 – 1.5)	1 \times (0.75 – 1.5) 2 \times (0.75 – 1.5)
Solid or stranded	AWG		18 – 14	18 – 14	18 – 14	18 – 14	18 – 14	18 – 14
Terminal screw			M3.5	M3.5	M3.5	M3.5	M3.5	M3.5
Pozidriv screwdriver	Size		2	2	2	2	2	2
Standard screwdriver	mm		0.8 \times 5.5 1 \times 6	0.8 \times 5.5 1 \times 6	0.8 \times 5.5 1 \times 6	0.8 \times 5.5 1 \times 6	0.8 \times 5.5 1 \times 6	0.8 \times 5.5 1 \times 6
max. tightening torque			Nm					
			1.2	1.2	1.2	1.2	1.2	1.2
Terminal capacity of springloaded main terminals								
Solid	mm ²		1 \times (1 – 2.5) 2 \times (1 – 2.5)	1 \times (1 – 2.5) 2 \times (1 – 2.5)	1 \times (1 – 2.5) 2 \times (1 – 2.5)	1 \times (1 – 2.5) 2 \times (1 – 2.5)	1 \times (1 – 2.5) 2 \times (1 – 2.5)	1 \times (1 – 2.5) 2 \times (1 – 2.5)
Flexible with ferrule	mm ²		1 \times (1 – 2.5) 2 \times (1 – 2.5)	1 \times (1 – 2.5) 2 \times (1 – 2.5)	1 \times (1 – 2.5) 2 \times (1 – 2.5)	1 \times (1 – 2.5) 2 \times (1 – 2.5)	1 \times (1 – 2.5) 2 \times (1 – 2.5)	1 \times (1 – 2.5) 2 \times (1 – 2.5)
Standard screwdriver			mm					
			0.6 \times 3.5	0.6 \times 3.5	0.6 \times 3.5	0.6 \times 3.5	0.6 \times 3.5	0.6 \times 3.5



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				DILEEM	DILEEM-G	DILEM	DILEM-G	DILEM4	DILEM4-G
Main contacts									
Rated impulse withstand voltage	U_{imp}	V AC		6000	6000	6000	6000	6000	6000
Overvoltage category/pollution degree				III/3	III/3	III/3	III/3	III/3	III/3
Rated insulation voltage	U_i	V AC		690	690	690	690	690	690
Rated operational voltage	U_e	V AC		690	690	690	690	690	690
Safe isolation to VDE 0106 Part 101 and Part 101/A1									
between coil and contacts		V AC		300	300	300	300	300	300
between the contacts		V AC		300	300	300	300	300	300
Making capacity (cos ϕ to IEC/EN 60947)		A		110	110	110	110	110	110
Breaking capacity	220/230 V	A		90	90	90	90	90	90
	380/400 V	A		90	90	90	90	90	90
	500 V	A		64	64	64	64	64	64
	660/690 V	A		54	54	54	54	54	54
Component lifespan	AC-1			a page 5/90					
	AC-3			a page 5/88					
	AC-4			a page 5/89					
Short-circuit protection rating maximum fuse									
Type "2" coordination	gL/gG	A		10	10	10	10	10	10
Type "1" coordination	gL/gG	A		20	20	20	20	20	20
AC									
AC-1 operation									
Conventional free air thermal current, 3-pole, 50 – 60 Hz									
Open	at 40 °C	I_{th}	A	22	22	22	22	22	22
	at 50 °C	I_{th}	A	20	20	20	20	20	20
	at 55 °C	I_{th}	A	19	19	19	19	19	19
Enclosed ¹⁾		I_{th}	A	16	16	16	16	16	16
Conventional free air thermal current, 1-pole									
Open ¹⁾		I_{th}	A	50	50	50	50	60	60
Enclosed ¹⁾		I_{th}	A	40	40	40	40	50	50
AC-3 operation									
Rated operational current, open, 50 – 60 Hz ¹⁾	220/230 V	I_e	A	6.6	6.6	9.0	9.0	9.0	9.0
	240 V	I_e	A	6.6	6.6	9.0	9.0	9.0	9.0
	380/400 V	I_e	A	6.6	6.6	9.0	9.0	9.0	9.0
	415 V	I_e	A	6.6	6.6	9.0	9.0	9.0	9.0
	440 V	I_e	A	6.6	6.6	9.0	9.0	9.0	9.0
	500 V	I_e	A	5	5	6.4	6.4	6.4	6.4
	660/690 V	I_e	A	3.5	3.5	4.8	4.8	4.8	4.8
Rated power	220/230 V	P	kW	1.5	1.5	2.2	2.2	2.2	2.2
	240 V	P	kW	1.8	1.8	2.5	2.5	2.5	2.5
	380/400 V	P	kW	3	3	4	4	4	4
	415 V	P	kW	3.1	3.1	4.3	4.3	4.3	4.3
	440 V	P	kW	3.3	3.3	4.6	4.6	4.6	4.6
	500 V	P	kW	3	3	4	4	4	4
	660/690 V	P	kW	3	3	4	4	4	4
AC-4 operation									
Rated operational current, open, 50 – 60 Hz ¹⁾	220/230 V	I_e	A	5	5	6.6	6.6	6.6	6.6
	240 V	I_e	A	5	5	6.6	6.6	6.6	6.6
	380/400 V	I_e	A	5	5	6.6	6.6	6.6	6.6
	415 V	I_e	A	5	5	6.6	6.6	6.6	6.6
	440 V	I_e	A	5	5	6.6	6.6	6.6	6.6
	500 V	I_e	A	3.7	3.7	5	5	5	5
	660/690 V	I_e	A	2.9	2.9	3.4	3.4	3.4	3.4
Rated power	220/230 V	P	kW	1.1	1.1	1.5	1.5	1.5	1.5
	240 V	P	kW	1.3	1.3	1.8	1.8	1.8	1.8
	380/400 V	P	kW	2.2	2.2	3	3	3	3
	415 V	P	kW	2.3	2.3	3.1	3.1	3.1	3.1
	440 V	P	kW	2.4	2.4	3.3	3.3	3.3	3.3
	500 V	P	kW	2.2	2.2	3	3	3	3
	660/690 V	P	kW	2.2	2.2	3	3	3	3

Notes

¹⁾ At maximum permissible ambient temperature.



				DILEEM	DILEEM-G	DILEM	DILEM-G	DILEM4	DILEM4-G
DC									
operations				a page 5/97					
Rated operational current, open ¹⁾									
DC-1	12 V	I_e	A	20	20	20	20	–	–
	24 V	I_e	A	20	20	20	20	–	–
	60 V	I_e	A	20	20	20	20	–	–
	110 V	I_e	A	20	20	20	20	–	–
	220 V	I_e	A	20	20	20	20	–	–
DC-3	12 V	I_e	A	6	6	8	8	–	–
	24 V	I_e	A	6	6	8	8	–	–
	60 V	I_e	A	3	3	4	4	–	–
	110 V	I_e	A	2	2	3	3	–	–
	220 V	I_e	A	–	–	–	–	1	1
DC-5	12 V	I_e	A	1.8	1.8	2.5	2.5	–	–
	24 V	I_e	A	1.8	1.8	2.5	2.5	–	–
	60 V	I_e	A	1.8	1.8	2.5	2.5	–	–
	110 V	I_e	A	1.1	1.1	1.5	1.5	2.5	2.5
	220 V	I_e	A	0.2	0.2	0.3	0.3	1	1
Current heat loss (3 or 4-pole)									
at I_{th}			W	2	3.5	2	3.5	2.7	4.7
at I_e to AC-3/400 V			W	0.3	0.4	0.5	0.7	–	–
Magnet systems									
Voltage tolerance									
Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz		Pick-up	$\times U_c$	0.8 – 1.1	–	0.8 – 1.1	–	0.8 – 1.1	–
Dual-frequency coil 50/60 Hz		Pick-up	$\times U_c$	0.85 – 1.1	–	0.85 – 1.1	–	0.85 – 1.1	–
DC operated ²⁾		Pick-up	$\times U_c$	–	0.8 – 1.1	–	0.8 – 1.1	–	0.85 – 1.1
Power consumption									
AC operation									
Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz		Pick-up	VA	25	–	25	–	25	–
Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz		Pick-up	W	22	–	22	–	22	–
Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz		Sealing	VA	4.6	–	4.6	–	4.6	–
Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz		Sealing	W	1.3	–	1.3	–	1.3	–
Dual-frequency coil 50/60 Hz at 50 Hz		Pick-up	VA	30	–	30	–	30	–
Dual-frequency coil 50/60 Hz at 50 Hz		Pick-up	W	26	–	26	–	26	–
Dual-frequency coil 50/60 Hz at 50 Hz		Sealing	VA	5.4	–	5.4	–	5.4	–
Dual-frequency coil 50/60 Hz at 50 Hz		Sealing	W	1.6	–	1.6	–	1.6	–
Dual-frequency coil 50/60 Hz at 60 Hz		Pick-up	VA	29	–	29	–	29	–
Dual-frequency coil 50/60 Hz at 60 Hz		Pick-up	W	24	–	24	–	24	–
Dual-frequency coil 50/60 Hz at 60 Hz		Sealing	VA	3.9	–	3.9	–	3.9	–
Dual-frequency coil 50/60 Hz at 60 Hz		Sealing	W	1.1	–	1.1	–	1.1	–
DC operation ²⁾									
Power consumption pick-up = sealing			VA/W	–	2.6	–	2.6	–	2.6
Duty factor				% DF	100	100	100	100	100
Switching time at 100 % U_c									
Make contact									
Closing delay	Closing delay min.		ms	14	26	14	26	14	26
	Closing delay max.		ms	21	35	21	35	21	35
Opening delay	Opening delay min.		ms	8	15	8	15	8	15
	Opening delay max.		ms	18	25	18	25	18	25
Closing delay with top mounting auxiliary contact			ms	max.45	max.70	max.45	max.70	max.45	max.70
Reversing contactors									
Changeover time at 110 % U_c	Changeover time min.		ms	16	40	16	40	16	40
	Changeover time max.		ms	21	50	21	50	21	50
Arcing time at 690 V AC			ms	max.12	max.12	max.12	max.12	max.12	max.12

Notes

¹⁾ At maximum permissible ambient temperature.

²⁾ Smoothed DC or three-phase bridge rectifier

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				DILEEM	DILEM	...DILEM
Auxiliary contacts						
Interlocked opposing contacts to ZH 1/457, including auxiliary contact module				Yes	Yes	Yes
Rated impulse withstand voltage	U_{imp}	V AC		6000	6000	6000
Overvoltage category/pollution degree				III/3	III/3	III/3
Rated insulation voltage	U_i	V AC		690	690	690
Rated operational voltage						
Rated operational voltage	U_e	V AC		600	600	600
Safe isolation to VDE 0106 Part 101 and Part 101/A1						
between coil and auxiliary contacts		V AC		300	300	300
Between the auxiliary contacts		V AC		300	300	300
Rated operational current						
AC-15	220/240 V	I_e	A	6	6	4
	380/415 V	I_e	A	3	3	2
	500 V	I_e	A	1.5	1.5	1.5
DC-13 L/R \leq 15 ms Contacts in series:	1	24 V	A	2.5	2.5	2.5
	2	60 V	A	2.5	2.5	2.5
	3	100 V	A	1.5	1.5	1.5
	3	220 V	A	0.5	0.5	0.5
Conventional thermal current		I_{th}	A	10	10	10
Control circuit reliability (at $U_e = 24$ V DC, $U_{min} = 17$ V, $I_{min} = 5.4$ mA)			λ	Failure rate	<10 ⁻⁸ , < one failure at 100 million operations	
Component lifespan at $U_e = 240$ V						
AC-15		Operations	$\times 10^6$	0.2	0.2	0.2
DC-13 ¹⁾	L/R = 50ms: 2 contacts in series at $I_e = 0.5$ A	Operations	$\times 10^6$	0.15	0.15	0.15
Short-circuit rating without welding						
Maximum overcurrent protective device				PKZM0-4	PKZM0-4	PKZM0-4
Short-circuit protection rating maximum fuse		500 V	A gG/gL	6	6	6
		500 V	A fast	10	10	10
Current heat loss at conventional free air thermal current I_{th}						
Per contact			W	0.2	0.2	0.2

Notes ¹⁾ Making and breaking conditions to DC-13, time L/R constant as stated



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				DILM7	DILM9	DILM12
General						
Standards				IEC/EN 60947, VDE 0660, UL, CSA		
Lifespan, mechanical						
AC operated	Operations	× 10 ⁶	10	10	10	
DC operated	Operations	× 10 ⁶	10	10	10	
Operating frequency, mechanical						
AC operated	Operations/h		9000	9000	9000	
DC operated	Operations/h		9000	9000	9000	
Climatic proofing				Damp heat, constant, to IEC 60068-2-78, Damp heat, cyclic, to IEC 60068-2-30		
Ambient temperature						
Open		°C	-25/60	-25/60	-25/60	
Enclosed		°C	-25/40	-25/40	-25/40	
Storage		°C	-40/80	-40/80	-40/80	
Mounting position						
AC and DC operated						
Mechanical shock resistance (IEC/EN 60068-2-27)						
Half-sinusoidal shock 10 ms	Main contacts	Make contact	g	10	10	10
	Auxiliary contacts	Make contact	g	7	7	7
		Break contact	g	5	5	5
Degree of protection				IP20		
Protection against direct contact when actuated from front (IEC 536)				Finger- and back-of-hand proof		
Weight						
AC operated			kg	0.23	0.23	0.23
DC operated			kg	0.28	0.28	0.28
Screw connector terminals						
1 or 2 conductors can be connected						
Main cable cross-section						
Solid			mm ²	1 × (0.75 – 4) 2 × (0.75 – 2.5)	1 × (0.75 – 4) 2 × (0.75 – 2.5)	1 × (0.75 – 4) 2 × (0.75 – 2.5)
Flexible with ferrule			mm ²	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)
Stranded			mm ²	–	–	–
Solid or stranded			AWG	18 – 14	18 – 14	18 – 14
Flat conductor		Number of segments × width × thickness	mm	–	–	–

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DILM17	DILM25	DILM32	DILM40	DILM50	DILM65
IEC/EN 60947, VDE 0660, UL, CSA					
10	10	10	10	10	10
10	10	10	10	10	10
5000	5000	5000	5000	5000	5000
5000	5000	5000	5000	5000	5000
Damp heat, constant, to IEC 60068-2-78, Damp heat, cyclic, to IEC 60068-2-30					
-25/60	-25/60	-25/60	-25/60	-25/60	-25/60
-25/40	-25/40	-25/40	-25/40	-25/40	-25/40
-40/80	-40/80	-40/80	-40/80	-40/80	-40/80
10	10	10	10	10	10
7	7	7	7	7	7
5	5	5	5	5	5
IP00	IP00	IP00	IP00	IP00	IP00
Finger- and back-of-hand proof					
0.42	0.42	0.42	0.9	0.9	0.9
0.48	0.48	0.48	1.1	1.1	1.1
Main cable cross-section					
1 × (0.75 – 16) 2 × (0.75 – 10)	1 × (0.75 – 16) 2 × (0.75 – 10)	1 × (0.75 – 16) 2 × (0.75 – 10)	1 × (2.5 – 16) 2 × (2.5 – 16)	1 × (2.5 – 16) 2 × (2.5 – 16)	1 × (2.5 – 16) 2 × (2.5 – 16)
1 × (0.75 – 16) 2 × (0.75 – 10)	1 × (0.75 – 16) 2 × (0.75 – 10)	1 × (0.75 – 16) 2 × (0.75 – 10)	1 × (2.5 – 35) 2 × (2.5 – 25)	1 × (2.5 – 35) 2 × (2.5 – 25)	1 × (2.5 – 35) 2 × (2.5 – 25)
1 × 16	1 × 16	1 × 16	1 × (16 – 50) 2 × (16 – 35)	1 × (16 – 50) 2 × (16 – 35)	1 × (16 – 50) 2 × (16 – 35)
18 – 6	18 – 6	18 – 6	12 – 2	12 – 2	12 – 2
–	–	–	2 × (6 × 9 × 0.8)	2 × (6 × 9 × 0.8)	2 × (6 × 9 × 0.8)

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				DILM7	DILM9	DILM12
General						
Main cable connection screw/bolt				M3.5	M3.5	M3.5
Tightening torque				Nm	1.2	1.2
Control circuit cable cross-sections						
Solid				mm ²	1 × (0.75 - 4) 2 × (0.75 - 2.5)	1 × (0.75 - 4) 2 × (0.75 - 2.5)
Flexible with ferrule				mm ²	1 × (0.75 - 2.5) 2 × (0.75 - 2.5)	1 × (0.75 - 2.5) 2 × (0.75 - 2.5)
Solid or stranded				AWG	18 - 14	18 - 14
Control circuit cable connection screw/bolt				M3.5	M3.5	M3.5
Tightening torque				Nm	1.2	1.2
Tools						
Main cable		Pozidriv screwdriver	Size	2	2	2
		Standard screwdriver	mm	0.8 × 5.5 1 × 6	0.8 × 5.5 1 × 6	0.8 × 5.5 1 × 6
Control circuit cable		Pozidriv screwdriver	Size	2	2	2
		Standard screwdriver	mm	0.8 × 5.5 1 × 6	0.8 × 5.5 1 × 6	0.8 × 5.5 1 × 6
Springloaded terminal connection						
1 or 2 conductors can be connected						
Main cable cross-section						
Solid				mm ²	0.75 - 2.5	0.75 - 2.5
Flexible				mm ²	0.75 - 2.5	0.75 - 2.5
Flexible with ferrule				mm ²	0.75 - 2.5	0.75 - 2.5
Solid or stranded				AWG	18 - 14	18 - 14
Control circuit cable cross-sections						
Solid				mm ²	0.75 - 2.5	0.75 - 2.5
Flexible				mm ²	0.75 - 2.5	0.75 - 2.5
Flexible with ferrule				mm ²	0.75 - 2.5	0.75 - 2.5
Solid or stranded				AWG	18 - 14	18 - 14
Tools						
Wire strip length				mm	10	10
Screwdriver blade width				mm	3.5	3.5
Main contacts						
Rated impulse withstand voltage			U_{imp}	V AC	8000	8000
Overvoltage category/pollution degree					III/3	III/3
Rated insulation voltage			U_i	V AC	690	690
Rated operational voltage			U_e	V AC	690	690
Safe isolation to VDE 0106 Part 101 and Part 101/A1						
between coil and contacts				V AC	400	400
between the contacts				V AC	400	400
Making capacity $\cos \varphi$ to IEC/EN 60947 up to 690 V				A	112	144
Breaking capacity				A	70	90
220/230 V				A	70	90
380/400 V				A	50	70
500 V				A	40	50
660/690 V				A	-	-
1000 V				A	-	-
Component lifespan					a Characteristic curves	
AC-3/AC-4; 400 V			I_e		1	1
AC-1; 400 V			I_e operations	× 10 ⁶	800	800
Maximum operating frequency					1000	1000
AC-3; 400 V			I_e	Ops/h	300	300
AC-4; 400 V			I_e	Ops/h	-	-
Short-circuit rating						
Short-circuit protection max. fuse		Type "2" coordination	400 V	gG/gL 500 V	A	20
			690 V	gG/gL 690 V	A	16
			1000 V	gG/gL 1000 V	A	-
		Type "1" coordination	400 V	gG/gL 500 V	A	35
			690 V	gG/gL 690 V	A	20
			1000 V	gG/gL 1000 V	A	-

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						DILM17	DILM25	DILM32	DILM40	DILM50	DILM65
Main cable connection screw/bolt						M5	M5	M5	M6	M6	M6
Tightening torque						3	3	3	3	3	3
Control circuit cable cross-sections											
Solid						mm ²	1 × (0.75 - 4) 1 × (0.75 - 4)	1 × (0.75 - 4) 1 × (0.75 - 4)	1 × (0.75 - 4) 1 × (0.75 - 4)	1 × (0.75 - 4) 1 × (0.75 - 4)	1 × (0.75 - 4) 1 × (0.75 - 4)
Flexible with ferrule						mm ²	1 × (0.75 - 2.5) 2 × (0.75 - 2.5)	1 × (0.75 - 2.5) 2 × (0.75 - 2.5)	1 × (0.75 - 2.5) 2 × (0.75 - 2.5)	1 × (0.75 - 2.5) 2 × (0.75 - 2.5)	1 × (0.75 - 2.5) 2 × (0.75 - 2.5)
Solid or stranded						AWG	18 - 14	18 - 14	18 - 14	18 - 14	18 - 14
Control circuit cable connection screw/bolt						M3.5	M3.5	M3.5	M3.5	M3.5	M3.5
Tightening torque						1.2	1.2	1.2	1.2	1.2	1.2
Tools											
Main cable		Pozidriv screwdriver	Size	2	2	2					
		Standard screwdriver	mm	0.8 × 5.5 1 × 6	0.8 × 5.5 1 × 6	0.8 × 5.5 1 × 6					
Control circuit cable		Pozidriv screwdriver	Size	2	2	2					
		Standard screwdriver	mm	0.8 × 5.5 1 × 6	0.8 × 5.5 1 × 6	0.8 × 5.5 1 × 6					
Springloaded terminal connection											
1 or 2 conductors can be connected											
Main cable cross-section											
Solid				mm ²	0.75 - 2.5	0.75 - 2.5					
Flexible				mm ²	0.75 - 2.5	0.75 - 2.5					
Flexible with ferrule				mm ²	0.75 - 2.5	0.75 - 2.5					
Solid or stranded				AWG	18 - 14	18 - 14					
Control circuit cable cross-sections											
Solid				mm ²	0.75 - 2.5	0.75 - 2.5					
Flexible				mm ²	0.75 - 2.5	0.75 - 2.5					
Flexible with ferrule				mm ²	0.75 - 2.5	0.75 - 2.5					
Solid or stranded				AWG	18 - 14	18 - 14					
Tools											
Wire strip length				mm	10	10					
Screwdriver blade width				mm	3.5	3.5					
Main contacts											
Rated impulse withstand voltage			U_{imp}	V AC	8000	8000					
Overvoltage category/pollution degree					III/3	III/3					
Rated insulation voltage			U_i	V AC	690	690					
Rated operational voltage			U_e	V AC	690	690					
Safe isolation to VDE 0106 Part 101 and Part 101/A1											
between coil and contacts				V AC	440	440					
between the contacts				V AC	440	440					
Making capacity $\cos \varphi$ to IEC/EN 60947 up to 690 V				A	238	350					
Breaking capacity				A	170	250					
220/230 V				A	170	250					
380/400 V				A	170	250					
500 V				A	120	150					
660/690 V				A	-	-					
1000 V				A	-	-					
Component lifespan					a Characteristic curves						
AC-3/AC-4; 400 V			I_e		1	1					
AC-1; 400 V			I_e operations	× 10 ⁶	800	800					
Maximum operating frequency					800	800					
AC-3; 400 V			I_e	Ops/h	300	300					
AC-4; 400 V			I_e	Ops/h	-	-					
Short-circuit rating											
Short-circuit protection max. fuse		Type "2" coordination	400 V	gG/gL 500 V	A	25					
			690 V	gG/gL 690 V	A	25					
			1000 V	gG/gL 1000 V	A	-					
		Type "1" coordination	400 V	gG/gL 500 V	A	63					
			690 V	gG/gL 690 V	A	50					
			1000 V	gG/gL 1000 V	A	-					



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					DILM7	DILM9	DILM12
AC							
AC-1 operation							
Conventional free air thermal current, 3-pole, 50 – 60 Hz	Open	at 40 °C	I_{th}	A	22	22	22
		at 50 °C	I_{th}	A	21	21	21
		at 55 °C	I_{th}	A	21	21	21
		at 60 °C	I_{th}	A	20	20	20
Conventional free air thermal current, 1-pole	Enclosed		I_{th}	A	18	18	18
	Open		I_{th}	A	50	50	50
	Enclosed		I_{th}	A	45	45	45
AC-3 operation							
Rated operational current open, 50 – 60 Hz	220/230 V	I_e	A	7	9	12	
	240 V	I_e	A	7	9	12	
	380/400 V	I_e	A	7	9	12	
	415 V	I_e	A	7	9	12	
	440 V	I_e	A	7	9	12	
	500 V	I_e	A	5	7	10	
	660/690 V	I_e	A	4	5	7	
	1000 V	I_e	A	–	–	–	
Rated power	220/230 V	P_n	kW	2.2	2.5	3.5	
	240 V	P_n	kW	2.2	3	4	
	380/400 V	P_n	kW	3	4	5.5	
	415 V	P_n	kW	4	5.5	7	
	440 V	P_n	kW	4.5	5.5	7.5	
	500 V	P_n	kW	3.5	4.5	7	
	660/690 V	P_n	kW	3.5	4.5	6.5	
	1000 V	P_n	kW	–	–	–	
AC-4 operation							
Rated operational current open, 50 – 60 Hz	220/230 V	I_e	A	5	6	7	
	240 V	I_e	A	5	6	7	
	380/400 V	I_e	A	5	6	7	
	415 V	I_e	A	5	6	7	
	440 V	I_e	A	5	6	7	
	500 V	I_e	A	4.5	5	6	
	660/690 V	I_e	A	4	4.5	5	
	1000 V	I_e	A	–	–	–	
Rated power	220/230 V	P_n	kW	1	1.5	2	
	240 V	P_n	kW	1.5	1.6	2.2	
	380/400 V	P_n	kW	2.2	2.5	3	
	415 V	P_n	kW	2.3	2.8	3.4	
	440 V	P_n	kW	2.4	3	3.6	
	500 V	P_n	kW	2.5	2.8	3.5	
	660/690 V	P_n	kW	2.9	3.6	4.4	
	1000 V	P_n	kW	–	–	–	
DC							
Rated operational current, open							
DC-1 operation	60 V	I_e	A	20	20	20	
	110 V	I_e	A	20	20	20	
	220 V	I_e	A	15	15	15	
	440 V	I_e	A	1	1.3	1.3	
DC-3 operation	60 V	I_e	A	20	20	20	
	110 V	I_e	A	20	20	20	
	220 V	I_e	A	1.5	1.5	1.5	
	440 V	I_e	A	0.2	0.2	0.2	
DC-5 operation	60 V	I_e	A	20	20	20	
	110 V	I_e	A	20	20	20	
	220 V	I_e	A	1.5	1.5	1.5	
	440 V	I_e	A	0.2	0.2	0.2	

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DILM17	DILM25	DILM32	DILM40	DILM50	DILM65
40	45	45	60	70	85
38	43	43	57	65	80
37	42	42	55	63	75
35	40	40	50	60	72
32	36	36	45	54	65
85	85	85	125	150	180
80	80	80	112	135	162
18	25	32	40	50	65
18	25	32	40	50	65
18	25	32	40	50	65
18	25	32	40	50	65
18	25	32	40	50	65
18	25	32	40	50	65
12	15	18	25	32	37
–	–	–	–	–	–
5	7.5	10	12.5	15.5	20
5.5	8.5	11	13.5	17	22
7.5	11	15	18.5	22	30
10	14.5	19	24	30	39
10.5	15.5	20	25	32	41
12	17.5	23	28	36	47
11	14	17	23	30	35
–	–	–	–	–	–
10	13	15	18	21	25
10	13	15	18	21	25
10	13	15	18	21	25
10	13	15	18	21	25
10	13	15	18	21	25
10	13	15	18	21	25
8	10	12	14	17	20
–	–	–	–	–	–
2.5	3.5	4	5	6	7
3	4	4.5	5.5	6.5	7.5
4.5	6	7	9	10	12
5	6.5	7.5	9.5	11	13
5.5	7	8	10	12	14
6	8	9	11	13	16
6.5	8.5	10	12	14	17
–	–	–	–	–	–
35	40	40	50	60	72
35	40	40	50	50	72
35	40	40	45	45	65
2.9	2.9	2.9	2.9	2.9	2.9
35	35	40	50	60	72
35	35	40	50	50	72
10	10	25	25	25	35
0.6	0.6	0.6	0.6	0.6	0.6
35	35	40	50	60	72
35	35	40	50	50	72
10	10	25	25	25	35
0.6	0.6	0.6	0.6	0.6	0.6

Contactors



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				DILM7	DILM9	DILM12
Current heat loss (3-pole)						
Current heat loss at I_{th}		W		4.7	4.7	4.7
Current heat loss at I_e to AC-3/400 V		W		0.37	0.6	1.1
Impedance per pole		mΩ		2.5	2.5	2.5
Magnet systems						
Pick-up and drop-out values						
AC operated	Pick-up	$\times U_c$		0.8 – 1.1	0.8 – 1.1	0.8 – 1.1
AC operated	Drop-out	$\times U_c$		0.3 – 0.6	0.2 – 0.6	0.3 – 0.6
DC operated	Pick-up	$\times U_c$		0.8 – 1.1 ¹⁾	0.8 – 1.1 ¹⁾	0.8 – 1.1 ¹⁾
DC operated	Drop-out	$\times U_c$		0.15 – 0.6	0.15 – 0.6	0.15 – 0.6
Power consumption of the coil at cold state and $1.0 \times U_c$						
AC operated	Pick-up	VA		24	24	24
AC operated	Pick-up	W		19	19	19
Single-voltage coil 50 Hz	Sealing	VA		4	4	4
Single-voltage coil 50 Hz	Sealing	W		1.2	1.2	1.2
60 Hz	Pick-up	VA		29	29	29
60 Hz	Pick-up	W		23	23	23
60 Hz	Sealing	VA		4.4	4.4	4.4
60 Hz	Sealing	W		1.3	1.3	1.3
50/60 Hz	Pick-up	VA		28 26	28 26	28 26
50/60 Hz	Pick-up	W		22 21	22 21	22 21
50/60 Hz	Sealing	VA		4.6 3.9	4.6 3.9	4.6 3.9
50/60 Hz	Sealing	W		1.4 1.2	1.4 1.2	1.4 1.2
DC operated	Pick-up	W		3	3	4.5
DC operated	Sealing	W		3	3	4.5
Duty factor		% DF		100	100	100
Switching times at 100 % U_c (approximate values)						
Main contacts	AC operated	Closing delay	ms	< 20	< 20	< 20
		Opening delay	ms	< 15	< 15	< 15
	DC operated	Closing delay	ms	< 35	< 35	< 35
		Opening delay	ms	< 15	< 15	< 15
Arcing time		ms	10	10	10	
Electromagnetic compatibility (EMC)						
Emitted interference				to EN 60947-1		
Noise immunity				to EN 60947-1		

Notes ¹⁾ at 24 V: 0.7 – 1.3 without additional auxiliary contact modules and ambient temperature + 40 °C

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DILM17	DILM25	DILM32	DILM40	DILM50	DILM65
7.3	9.6	12.1	11.3	16.2	15.6
1.7	3.8	6.1	7.2	11.3	12.7
2	2	2	1.5	1.5	1.5
Current heat loss (3-pole)					
0.8 – 1.1	0.8 – 1.1	0.8 – 1.1	0.8 – 1.1	0.8 – 1.1	0.8 – 1.1
0.3 – 0.6	0.3 – 0.6	0.3 – 0.6	0.3 – 0.6	0.3 – 0.6	0.3 – 0.6
0.7 – 1.2 ²⁾	0.7 – 1.2 ²⁾	0.7 – 1.2 ²⁾	0.7 – 1.2 ²⁾	0.7 – 1.2 ²⁾	0.7 – 1.2 ²⁾
0.15 – 0.6	0.15 – 0.6	0.15 – 0.6	0.15 – 0.6	0.15 – 0.6	0.15 – 0.6
Power consumption of the coil at cold state and $1.0 \times U_c$					
50	50	50	130	130	130
40	40	40	80	80	80
8	8	8	14	14	14
2.4	2.4	2.4	4	4	4
62	62	62	62	62	62
50	50	50	50	50	50
9.1	9.1	9.1	9.1	9.1	9.1
2.7	2.7	2.7	2.7	2.7	2.7
60	60	60	60	60	60
54	54	54	54	54	54
48	48	48	48	48	48
43	43	43	43	43	43
9.5	9.5	9.5	9.5	9.5	9.5
7.9	7.9	7.9	7.9	7.9	7.9
2.8	2.8	2.8	2.8	2.8	2.8
2.4	2.4	2.4	2.4	2.4	2.4
12 at 24 V	12 at 24 V	12 at 24 V	12 at 24 V	12 at 24 V	12 at 24 V
0.5 at 24 V	0.5 at 24 V	0.5 at 24 V	0.5 at 24 V	0.5 at 24 V	0.5 at 24 V
100	100	100	100	100	100
Switching times at 100 % U_c (approximate values)					
< 25	< 25	< 25	< 25	< 25	< 25
< 20	< 20	< 20	< 25	< 25	< 25
< 55	< 55	< 55	< 60	< 60	< 60
< 15	< 15	< 15	< 20	< 20	< 20
10	10	10	10	10	10
Electromagnetic compatibility (EMC)					
to EN 60947-1					
to EN 60947-1					

²⁾ RDC 24 (U_{min} 24 V DC/ U_{max} 27 V DC)
RDC 60 (U_{min} 48 V DC/ U_{max} 60 V DC)
RDC 130 (U_{min} 110 V DC/ U_{max} 130 V DC)
RDC 240 (U_{min} 200 V DC/ U_{max} 240 V DC)

Example:
 $U_c = 0.7 \times U_{min} - 1.2 \times U_{max}$
 $U_c = 0.7 \times 24 V - 1.2 \times 27 V DC$



			DILM7-... – DILM32-...	DILA(C)-XHI...	DILM(C)32-XHI...	DILM(C)150-XHI...	DILM(C)1000-XHI...
Auxiliary contacts							
Interlocked opposing contacts within an auxiliary contact module (to IEC 60947-5-1 Annex L)			–	Yes	Yes	Yes	Yes
Break contact (not late-break contact) suitable as a mirror contact (to IEC/EN 60947-4-1 Annex F)			DILM7 – DILM32	DILM7 – DILM32	DILM7 – DILM32	DILM40 – DILM65	DILM40 – DILM60 DILM185 – DILM1000
Rated impulse withstand voltage	U_{imp}	V AC	6000	6000	6000	6000	6000
Overvoltage category/pollution degree			III/3	III/3	III/3	III/3	III/3
Rated insulation voltage							
AC	U_i	V AC	690	690	690	690	690
Rated operational voltage	U_e	V AC	500	500	500	500	500
Safe isolation to VDE 0106 Part 101 and Part 101/A1							
between coil and auxiliary contacts		V AC	400	400	400	440	440
Between the auxiliary contacts		V AC	400	400	400	440	440
Rated operational current							
AC-15	230 V	I_e	A	6	6	6	6
	380/415 V	I_e	A	4	4	4	4
	500 V	I_e	A	1.5	–	1.5	1.5
DC-13 L/R ≤ 15 ms ¹⁾	24 V	I_e	A	10	10	10	10
	60 V	I_e	A	6	6	6	6
	110 V	I_e	A	3	3	3	3
	220 V	I_e	A	1	1	1	1
Conventional thermal current			I_{th}	A	10	10	10
Control circuit reliability (at $U_e = 24$ V DC, $U_{min} = 17$ V, $I_{min} = 5.4$ mA)			Failure rate	λ	<10 ⁻⁸ , < 1 one failure at 100 million operations		
Component lifespan							
at $U_e = 230$ V, AC-15, 3 A		Operations	$\times 10^6$	1.3	1.3	1.3	1.3
Short-circuit rating without welding ²⁾							
max. fuse			A gG/gL	10	10	10	16

Notes

- ¹⁾ Making and breaking conditions to DC-13, time L/R constant as stated
- ²⁾ See "Fuses" overlay for time/current characteristic (on request)

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			DIL00M DIL00AM DIL00BM	DIL0M DIL0AM	DIL1M DIL1AM	DIL2M DIL2AM	DIL3M80 DIL3AM85	DIL4M115 DIL4AM145
General								
Standards			IEC/EN 60947, VDE 0660, UL, CSA					
Lifespan, mechanical								
AC operated	Operations	× 10 ⁶	10	10	10	10	10	10
DC operated	Operations	× 10 ⁶	10	10	10	10	3	3
Operating frequency, mechanical								
AC operated	Operations/h		7000	9000	9000 5000	5000	5000	5000
DC operated	Operations/h		9000	9000	5000	5000	1000	1000
Maximum operating frequency								
Electrical (contactor without overload relay)			Page 05/96					
Climatic proofing			Damp heat, constant, to IEC 60068-2-78/Damp heat, cyclic, to IEC 60068-2-30					
Ambient temperature								
Open		°C	-25/50	-25/50	-25/50	-25/50	-25/60	-25/60
Enclosed		°C	-25/40	-25/40	-25/40	-25/40	-25/40	-25/40
Storage		°C	–	–	–	–	-40/80	-40/80
Mounting position			<div style="display: flex; justify-content: space-between;"> DIL00M to DIL2AM DIL3M80 to DIL4AM145 </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> <p>AC</p> </div> <div style="text-align: center;"> <p>DC</p> </div> <div style="text-align: center;"> </div> <div style="text-align: center;"> </div> </div>					
Mechanical shock resistance (IEC/EN 60068-2-27)								
Half-sinusoidal shock 20 ms ¹⁾								
Main contacts								
	Make contact	g	10	8	8	8	10	10
Auxiliary contacts								
	Make contact	g	10	8	8	8	10	10
	Break contact	g	6	6	6	6	8	8
Degree of protection			IP20					
Protection against direct contact when actuated from front (IEC 536)			Finger- and back-of-hand proof					
Weight								
AC operated		kg	0.32	0.42	0.71	0.95	2	2.9
DC operated		kg	0.5	0.77	1.25	1.85	2	2.9
Main cable cross-section								
Solid ²⁾		mm ²	1 × (0.75 – 4) 2 × (0.75 – 4)	1 × (1 – 6) 2 × (1 – 6)	1 × (2.5 – 16) 2 × (2.5 – 10)	1 × (2.5 – 16) 2 × (2.5 – 16)	1 × (6 – 16) 2 × (6 – 16)	–
Flexible with ferrule		mm ²	1 × (0.75 – 4) 2 × (0.75 – 4)	1 × (1 – 6) 2 × (1 – 6)	1 × (2.5 – 16) 2 × (2.5 – 10)	1 × (2.5 – 25) 2 × (2.5 – 10)	1 × (16 – 50) 2 × (16 – 50)	1 × (16 – 70) 2 × (16 – 70)
Stranded		mm ²	–	–	1 × (10 – 25) 2 × 10	1 × (10 – 35) 2 × 10	1 × (16 – 50) 2 × (16 – 50)	1 × (16 – 70) 2 × (16 – 70)
Solid or stranded		AWG	18 – 10	16 – 10	12 – 4	12 – 2	10 – 2	6 – 2/0
Flat conductor	Number of segments × width × thickness	mm	–	–	3 × 9 × 0.8 2 × (3 × 9 × 0.8) 6 × 9 × 0.8	3 × 9 × 0.8 2 × (3 × 9 × 0.8) 6 × 9 × 0.8	2 × (6 × 9 × 0.8)	2 × (6 × 16 × 0.8)

Notes

¹⁾ DIL3M80 – 4AM145: 10 ms

²⁾ Maximum of one size difference permissible with using 2 conductors



			DIL00M DIL00AM DIL00BM	DIL0M DIL0AM	DIL1M DIL1AM	DIL2M DIL2AM	DIL3M80 DIL3AM85	DIL4M115 DIL4AM145
General								
Main cable connection screw/bolt			M3.5	M4	M6	M6	M8	M10
Tightening torque	Nm		1.2	1.8	4	4	6	10
Control circuit cable cross-sections								
Solid	mm ²		1 × (0.75 – 4) 2 × (0.75 – 4)	1 × (0.75 – 4) 2 × (0.75 – 4)	1 × (0.75 – 4) 2 × (0.75 – 4)	1 × (0.75 – 4) 2 × (0.75 – 4)	1 × (0.75 – 4) 2 × (0.75 – 4)	1 × (0.75 – 4) 2 × (0.75 – 4)
Flexible with ferrule	mm ²		1 × (0.75 – 2.5) 2 × (0.75 – 2.5)	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)
Solid or stranded	AWG		18 – 12	18 – 12	18 – 12	18 – 12	2 × (18 – 12)	2 × (18 – 12)
Control circuit cable connection screw/bolt			M3.5	M3.5	M3.5	M3.5	M3.5	M3.5
Tightening torque	Nm		1.2	1.2	1.2	1.2	1.2	1.2
Tools								
Main cable								
Pozidriv screwdriver	Size		2	2	2	2	–	–
Inbus			–	–	–	–	4	5
Control circuit cable								
Pozidriv screwdriver	Size		2	2	2	2	2	2
Terminal capacity of springloaded main terminals								
Solid	mm ²		1 × (1 – 2.5) 2 × (1 – 2.5)	–	–	–	–	–
Flexible	mm ²		1 × (1 – 2.5) 2 × (1 – 2.5)	–	–	–	–	–
Flexible with ferrule	mm ²		1 × (1 – 2.5) 2 × (1 – 2.5)	–	–	–	–	–
Tools								
Standard screwdriver			0.6 × 3.5	–	–	–	–	–
Main contacts								
Rated impulse withstand voltage	U_{imp}	V AC	8000	8000	8000	8000	8000	8000
Overvoltage category/pollution degree			III/3	III/3	III/3	III/3	III/3	III/3
Rated insulation voltage	U_i	V AC	690	690	690	690	1000	1000
Rated operational voltage	U_e	V AC	690	690	690	690	1000	1000
Safe isolation to VDE 0106 Part 101 and Part 101/A1								
between coil and contacts	V AC		440	440	440	440	500	500
between the contacts	V AC		440	440	440	440	500	500
Making capacity (cos φ to IEC/EN 60947)	A		200 200 250	270	730	950	1300	1800
Breaking capacity								
220/230 V	A		130 130 160	230	380	750	1100	1800
380/400 V	A		120 120 160	230	380	600	1100	1800
500 V	A		120 120 160	230	355	600	1100	1800
660/690 V	A		100 100 125	210	255	545	650	1200
1000 V	A		– – –	–	–	–	330	630
Component lifespan								
AC-3/AC-4/AC-1			a Characteristic curves					
Short-circuit rating								
Short-circuit protection rating maximum fuse								
Type "2" coordination								
400 V	gG/gL 500 V	A	20	35	63	100	160	250
690 V	gG/gL 690 V	A	–	–	–	–	125	160
1000 V	gG/gL 1000 V	A	–	–	–	–	80	100
Type "1" coordination								
400 V	gG/gL 500 V	A	25	50	100	125	250	315
690 V	gG/gL 690 V	A	–	–	–	–	200	224
1000 V	gG/gL 1000 V	A	–	–	–	–	100	160



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			DIL00M DIL00AM DIL00BM	DIL0M DIL0AM	DIL1M DIL1AM	DIL2M DIL2AM	DIL3M80 DIL3AM85	DIL4M115 DIL4AM145
AC								
AC-1 operation								
Conventional free air thermal current, 3-pole, 50 – 60 Hz								
Open								
at 40 °C	A		22	38	60	98	114	182
at 50 °C	A		20	35	55	90	104	167
at 55 °C	A		19	33	52	85	100	160
at 60 °C	A		–	–	–	–	–	–
Enclosed ¹⁾	A		16	30	44	80	90	140
Conventional free air thermal current, 1-pole								
Open ¹⁾	A		50	85	140	225	250	400
Enclosed ¹⁾	A		40	75	110	200	225	350
AC-3 operation								
AC-3 rated operational current, open, 50 – 60 Hz ¹⁾								
220/230 V	I_e	A	8.8 12 15.5	15.5 22.5	30 38	43 62	75 85	104 147
240 V	I_e	A	8.8 12 15.5	15.5 22.5	30 38	43 62	75 85	104 147
380/400 V	I_e	A	8.8 12 15.5	15.5 22.5	30 36	43 58	72 85	104 142
415 V	I_e	A	8.8 12 15.5	15.5 22.5	30 36	43 58	72 85	104 142
440 V	I_e	A	8.8 12 15.5	15.5 22.5	30 36	43 58	72 85	104 142
500 V	I_e	A	9 12 11.5	17 22.5	28 32	43 54	64 78	106 127
660/690 V	I_e	A	6.7 9 9	13 17.5	21 25	33 42	60 82	98 118
1000 V	I_e	A	– – –	– –	– –	– –	28 33	40 47
Rated power								
220/230 V	P	kW	2.2 3 4	4 5.5	7.5 11	15 18.5	22 25	37 45
240 V	P	kW	2.5 3.5 4.6	4.6 6.8	9.3 11.5	16 20	25 28	40 50
380/400 V	P	kW	4 5.5 7.5	7.5 11	15 18.5	22 30	37 45	55 75
415 V	P	kW	4.3 6.1 8	8 12	16 19	24 33	41 49	60 83
440 V	P	kW	4.6 6.4 8.4	8.4 13	17 20	25 35	44 52	64 88
500 V	P	kW	5.5 7.5 11	11 15	18.5 22	30 37	45 55	75 90
660/690 V	P	kW	5.5 7.5 7.5	11 15	18.5 22	30 37	55 75	90 110
1000 V	P	kW	– – –	– –	– –	– –	37 45	55 65
AC-4 operation								
AC-4 rated operational current, open, 50 – 60 Hz ¹⁾								
220/230 V	I_e	A	6.6 8.7 8.7	11.5 15.5	22.5 30	37 49	64 75	86 106
240 V	I_e	A	6.6 8.7 8.7	11.5 15.5	22.5 30	37 49	64 75	86 106
380/400 V	I_e	A	6.6 8.5 8.5	11.5 15.5	22.5 30	36 43	58 72	85 106
415 V	I_e	A	6.6 8.5 8.5	11.5 15.5	22.5 30	36 43	58 72	85 106
440 V	I_e	A	6.6 8.5 8.5	11.5 15.5	22.5 30	36 43	58 72	85 106
500 V	I_e	A	6.4 9 9	11.5 17	22.5 28	32 43	54 64	78 106
660/690 V	I_e	A	4.9 6.7 6.7	9 13	17.5 21	25 33	49 49	60 82
1000 V	A		– – –	– –	– –	– –	28 33	40 40
Rated power								
220/230 V	P	kW	1.5 2.2 2.2	3 4	5.5 7.5	11 15	18.5 22	26 30
240 V	P	kW	1.8 2.5 2.5	3.4 4.6	6.8 9.2	12 16	22 25	29 35
380/400 V	P	kW	3 4 4	5.5 7.5	11 15	18.5 22	30 37	45 55
415 V	P	kW	3.1 4.2 4.2	5.8 8	11.8 16	19 24	33 41	49 61
440 V	P	kW	3.3 4.4 4.4	6.2 8.4	12.5 17	20.5 25.3	35 43	52 65
500 V	P	kW	4 5.5 5.5	7.5 11	15 18.5	22 30	37 45	55 75
660/690 V	P	kW	4 5.5 5.5	7.5 11	15 18.5	22 30	45 45	55 75
1000 V	P	kW	– – –	– –	– –	– –	30 37	45 55

Notes ¹⁾ at maximum permissible ambient temperature.



				DIL00M DIL00AM DIL00BM	DIL0M DIL0AM	DIL1M DIL1AM	DIL2M DIL2AM	DIL3M80 DIL3AM85	DIL4M115 DIL4AM145	
Capacitor duty										
Individual compensation rated operational current I_e of three-phase capacitors										
Open										
up to 525 V	I_e	A	6	10.5 18.5	29 37	47 70 ¹⁾	58 58	87 87		
690 V	I_e	A	7	9.5 18.5	28 34	46 55	36 36	59 59		
Enclosed										
up to 525 V	I_e	A	6	10.5 18.5	29 37	47 58	49 49	73 73		
690 V	I_e	A	7	9.5 18.5	28 34	46 55	30 30	50 50		
Max. inrush current peak		$\times I_e$	30	30 30	30 30	30 30	30 30	30 30		
Component lifespan	Operations	$\times 10^6$	0.1	0.1 0.1	0.1 0.1	0.1 0.1	0.1 0.1	0.1 0.1		
Max. operating frequency	Operations/h		200	200 200	200 200	200 200	200 200	200 200		
DC										
operations				Page 05/97						
Rated operational current, open										
DC-1 operation										
60 V	I_e	A	20 20 –	35 35	55	90	100	160		
110 V	I_e	A	20 20 –	35 35	55	90	100	160		
220 V	I_e	A	12 15 –	20 25	40	80	100	160		
440 V	I_e	A	3 3 –	5 5	7	10	–	–		
DC-3 operation										
60 V	I_e	A	15 20 –	20 28	28	70	100	160		
110 V	I_e	A	15 20 –	20 28	28	70	91	145		
220 V	I_e	A	5 8 –	10 12	15	45	91	145		
DC-5 operation										
60 V	I_e	A	12 16 –	18 25	25 27	45 48	100	160		
110 V	I_e	A	12 16 –	18 25	25 27	45 48	91	145		
220 V	I_e	A	– – –	– –	–	– –	91	145		
Current heat loss (3-pole)										
Current heat loss at I_{th}			W	2.3 2.3 2.3	3.7 3.7	12.4 12.4	20 20	21	35	
Current heat loss at I_e to AC-3/400 V			W	0.4 0.8 1.4	0.7 1.5	3.8 5.5	4.6 8.4	11 15	15 28	

Notes ¹⁾ Minimum cross-section: 16 mm² with high temperature cable; otherwise use 25 mm²



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			DIL00M DIL00AM DIL00BM	DIL0M DIL0AM	DIL1M DIL1AM	DIL2M DIL2AM	DIL3M80 DIL3AM85	DIL4M115 DIL4AM145
Magnet systems								
Pick-up and drop-out values								
AC operated	Pick-up	$\times U_c$	0.8 – 1.1	0.8 – 1.1	0.8 – 1.1	0.8 – 1.1	0.8 – 1.1	0.8 – 1.1
AC operated, 50/60 Hz coil	Pick-up	$\times U_c$	0.85 – 1.1	0.85 – 1.1	0.85 – 1.1	0.85 – 1.1	0.85 – 1.1	0.85 – 1.1
DC operated ¹⁾	Pick-up	$\times U_c$	0.85 – 1.1	0.85 – 1.1	0.85 – 1.1	0.85 – 1.1	0.8 – 1.1	0.8 – 1.1
Power consumption of the coil at cold state and $1.0 \times U_c$								
AC operated	Pick-up	VA	67	100	136	185	320	550
AC operated	Pick-up	W	52	72	88	106	150	220
Single-voltage coil 50 Hz	Sealing	VA	8.5	10	14	16	24	38
Single-voltage coil 50 Hz	Sealing	W	2.5	3	3.5	4.5	5.5	10
Dual-voltage coil 50 Hz, 60 Hz	Sealing	VA	8.6	10	15	16.5	26	40
Dual-voltage coil 50 Hz, 60 Hz	Sealing	W	2.5	3	4	5.8	7	10
Dual-frequency coil 50/60 Hz at 50 Hz	Sealing	VA	10	14	21	25	28	43
Dual-frequency coil 50/60 Hz at 50 Hz	Sealing	W	3	4	5	7.5	8	11
Dual-frequency coil 50/60 Hz at 60 Hz	Sealing	VA	8.5	10	15	20	23	37
Dual-frequency coil 50/60 Hz at 60 Hz	Sealing	W	2.5	3	4	6	6	10
DC operated	Pick-up	W	9.5	10	14.5	16	230	360
DC operated	Sealing	W	9.5	10	14.5	16	5	5.7
Duty factor		% DF	100	100	100	100	100	100
Switching times at 100 % U_c (approximate values)								
Main contacts								
AC operated								
	Closing delay	ms	14 – 22	9 – 19	11 – 19	14 – 22	20 – 24	18 – 28
	Opening delay	ms	5 – 14	5 – 13	6 – 13	5 – 15	8 – 13	7 – 11
DC operated								
	Closing delay	ms	35 – 40	40 – 55	68 – 75	75 – 90	27 – 29	28 – 30
	Opening delay	ms	5 – 10	6 – 10	10 – 15	12 – 18	12 – 23	13 – 16
Reversing contactors								
	Changeover time at 100 % U_c	ms	13 – 21 ²⁾	13 – 19 ²⁾	12 – 16 ²⁾	13 – 19 ²⁾	21 – 30	23 – 30
	Arcing time	ms	≤ 10	< 20	< 20	< 20	10 - 20	10 - 25
Lifespan, mechanical; Coil 50/60 Hz	at 50 Hz		Mechanical lifespan at 50 Hz approx. 30% less than under "General"					

Notes

¹⁾ Smoothed DC voltage or three-phase current bridge rectifier, at least two-pulse bridge rectifier

²⁾ At 660/690 V, a current free pause of ≥ 25 ms is necessary with reversal



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				Contactors				
				DILM185	DILM225 DILM250	DILM300 DILM400		
General				IEC/EN 60947, VDE 0660, UL, CSA				
Standards	AC operated		Operations	× 10 ⁶	10	7		
	DC operated		Operations	× 10 ⁶	10	7		
Lifespan, mechanical	AC operated		Operations/h		3000	2000		
	DC operated		Operations/h		3000	2000		
Operating frequency, mechanical	Electrical (contactor without overload relay)		Page 5/96					
Climatic proofing				Damp heat, constant, to IEC 60068-2-78/ Damp heat, cyclic, to IEC 60068-2-30				
Ambient temperature	Open		°C	-25/60	-25/60	-25/60		
	Enclosed		°C	-25/40	-25/40	-25/40		
	Storage		°C	-40/80	-40/80	-40/80		
Mounting position								
Mechanical shock resistance (IEC/EN 60068-2-27)								
Half-sinusoidal shock 10 ms	Main contacts	Make contact	g	10	10	10		
	Auxiliary contacts	Make contact	g	10	10	10		
		Break contact	g	8	8	8		
Degree of protection				IP00	IP00	IP00		
Protection against direct contact when actuated from front (IEC 536)				finger and back-of-hand proof with terminal shroud or terminal block				
Weight				kg	6.5	6.5	8	
Main cable cross-section	Flexible with cable lug		mm ²	35 – 95	50 – 240	50 – 240		
	Stranded with cable lug		mm ²	50 – 120	70 – 240	70 – 240		
	Solid or stranded		AWG	1/0 – 250 MCM	2/0 – 500 MCM	2/0 – 500 MCM		
Flat conductor				Fixing with flat cable terminal or cable terminal blocks See terminal capacity for cable terminal blocks				
Busbar				Width	mm	20	20 25	25
Main cable connection screw/bolt					M10	M10	M10	
Tightening torque				Nm	24	24	24	
Control circuit cable cross-sections	Solid		mm ²	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)		
		Flexible with ferrule	mm ²	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)		
	Solid or stranded		AWG	2 × (18 – 12)	2 × (18 – 12)	2 × (18 – 12)		
Control circuit cable connection screw/bolt					M3.5	M3.5	M3.5	
Tightening torque				Nm	1.2	1.2	1.2	
Tools	Main cable	Wrench	mm	16	16	16		
	Control circuit cable	Pozidriv screwdriver	Size	2	2 2	2 2		

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						Contactors						
						DILM500	DILM580 DILM650	DILM750 DILM820	DILM1000	DILH1400 DILH2000		
IEC/EN 60947, VDE 0660, UL, CSA												
Standards	AC operated		Operations	× 10 ⁶	7	5	5	5	5	5		
	DC operated		Operations	× 10 ⁶	7	5	5	5	5	5		
Lifespan, mechanical	AC operated		Operations/h		2000	1000	1000	1000	1000	1000		
	DC operated		Operations/h		2000	1000	1000	1000	1000	1000		
Operating frequency, mechanical	Electrical (contactor without overload relay)		Page 05/070									
Climatic proofing						Damp heat, constant, to IEC 60068-2-78/ Damp heat, cyclic, to IEC 60068-2-30						
Ambient temperature	Open		°C	-25/60	-25/60	-25/60	-25/60	-25/60	-25/60	-25/60		
	Enclosed		°C	-25/40	-25/40	-25/40	-25/40	-25/40	-25/40	-25/40		
	Storage		°C	-40/80	-40/80	-40/80	-40/80	-40/80	-40/80	-40/80		
Mounting position												
Mechanical shock resistance (IEC/EN 60068-2-27)												
Half-sinusoidal shock 10 ms	Main contacts	Make contact	g	10	10	10	10	10	10	10		
	Auxiliary contacts	Make contact	g	10	10	10	10	10	10	10		
		Break contact	g	8	8	8	8	8	8	8		
Degree of protection						IP00	IP00	IP00	IP00	IP00		
Protection against direct contact when actuated from front (IEC 536)						finger and back-of-hand proof with terminal shroud or terminal block						
Weight						kg	8	15	15	15	15 32	
Main cable cross-section	Flexible with cable lug		mm ²	50 – 240	50 – 240	50 – 240	50 – 240	50 – 240	50 – 240	–		
	Stranded with cable lug		mm ²	70 – 240	70 – 240	70 – 240	70 – 240	70 – 240	70 – 240	–		
	Solid or stranded		AWG	2/0 – 500 MCM	2/0 – 500 MCM	2/0 – 500 MCM	2/0 – 500 MCM	2/0 – 500 MCM	2/0 – 500 MCM	–		
Flat conductor						Fixing with flat cable terminal or cable terminal blocks See terminal capacity for cable terminal blocks						
Busbar						Width	mm	30	50	60	60	80 100
Main cable connection screw/bolt							M10	M10	M12	M12	M12	
Tightening torque						Nm	24	24	35	35	35	
Control circuit cable cross-sections	Solid		mm ²	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)		
		Flexible with ferrule	mm ²	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)		
	Solid or stranded		AWG	2 × (18 – 12)	2 × (18 – 12)	2 × (18 – 12)	2 × (18 – 12)	2 × (18 – 12)	2 × (18 – 12)	2 × (18 – 12)		
Control circuit cable connection screw/bolt							M3.5	M3.5	M3.5	M3.5	M3.5	
Tightening torque						Nm	1.2	1.2	1.2	1.2	1.2	
Tools	Main cable	Wrench	mm	16	16	18	18	18	18	18		
	Control circuit cable	Pozidriv screwdriver	Size	2	2 2	2 2	2	2	2	2 2		

Contactors



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				Contactors					
				DILM185	DILM225 DILM250	DILM300 DILM400			
Main contacts									
Rated impulse withstand voltage		U_{imp}	V AC	8000	8000	8000			
Overvoltage category/pollution degree				III/3	III/3	III/3			
Rated insulation voltage		U_i	V AC	1000	1000	1000			
Rated operational voltage		U_e	V AC	1000	1000	1000			
Safe isolation to VDE 0106 Part 101 and Part 101/A1		between coil and contacts		V AC	500	500			
		between the contacts		V AC	500	500			
Making capacity (cos ϕ to IEC/EN 60947)			A	3000	3000	5500			
Breaking capacity		220/230 V	A	2500	2500	5000			
		380/400 V	A	2500	2500	5000			
		500 V	A	2500	2500	5000			
		660/690 V	A	2500	2500	5000			
		1000 V	A	760	760	950			
Component lifespan		AC-3/AC-4/ AC-1		a Characteristic curves					
Short-circuit rating	Short-circuit protection rating maximum fuse	Type "2" coordination	400 V	gG/gL 500 V	A	315	315	500	
			690 V	gG/gL 690 V	A	315	315	500	
			1000 V	gG/gL 1000 V	A	160	160	200	
			400 V	gG/gL 500 V	A	400	400	630	
	Type "1" coordination	690 V	gG/gL 690 V	A	400	400	630		
		1000 V	gG/gL 1000 V	A	200	200	250		
		AC							
		AC-1 operation	Conventional free air thermal current, 3-pole, 50 – 60 Hz	Open	at 40 °C		A	337	386 429
at 50 °C					A	301	345 383	438 548	
at 55 °C					A	287	329 366	418 522	
at 60 °C					A	275	315 350	400 500	
Enclosed ¹⁾					A	250	275 300	350 450	
Conventional free air thermal current, 1-pole					Open ¹⁾	A	685	785 875	1000 1250
			Enclosed ¹⁾	A	625	685 750	875 1125		
AC-3 operation	AC-3 rated operational current, open, 50 – 60 Hz ¹⁾		220/230 V	I_e	A	185	225 250	300 400	
			240 V	I_e	A	185	225 250	300 400	
			380/400 V	I_e	A	185	225 250	300 400	
			415 V	I_e	A	185	225 250	300 400	
			440 V	I_e	A	185	225 250	300 400	
		500 V	I_e	A	185	225 250	300 400		
		660/690 V	I_e	A	185	225 250	300 360		
		1000 V	I_e	A	76	76 76	95 95		
		Rated power		220/230 V	P	kW	55	70 75	90 125
				240 V	P	kW	62	75 85	100 132
	380/400 V			P	kW	90	110 132	160 200	
	415 V			P	kW	110	132 148	180 240	
	440 V			P	kW	115	142 157	190 255	
	500 V			P	kW	132	160 180	215 290	
	660/690 V			P	kW	175	215 240	286 344	
	1000 V			P	kW	108	108 108	132 132	

Notes ¹⁾ at maximum permissible ambient temperature.

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				Contactors		DILM500		DILM580 DILM650		DILM750 DILM820		DILM1000		DILH1400 DILH2000				
Rated impulse withstand voltage		U_{imp}	V AC	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000			
Overvoltage category/pollution degree				III/3	III/3	III/3	III/3	III/3	III/3	III/3	III/3	III/3	III/3	III/3	III/3			
Rated insulation voltage		U_i	V AC	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000			
Rated operational voltage		U_e	V AC	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000			
Safe isolation to VDE 0106 Part 101 and Part 101/A1		between coil and contacts		V AC	500	500	500	500	500	500	500	500	500	500	500			
		between the contacts		V AC	500	500	500	500	500	500	500	500	500	500	500			
Making capacity (cos ϕ to IEC/EN 60947)			A	5500	7800	9840	9840	9840	9840	9840	9840	9840	9840	9840	9840			
Breaking capacity		220/230 V	A	5000	6500	8200	8200	8200	8200	8200	8200	8200	8200	8200	8200			
		380/400 V	A	5000	6500	8200	8200	8200	8200	8200	8200	8200	8200	8200	8200			
		500 V	A	5000	6500	8200	8200	8200	8200	8200	8200	8200	8200	8200	8200			
		660/690 V	A	5000	6500	8200	8200	8200	8200	8200	8200	8200	8200	8200	8200			
		1000 V	A	950	4350	5800	5800	5800	5800	5800	5800	5800	5800	5800	5800			
Component lifespan		AC-3/AC-4/ AC-1		a Characteristic curves														
Short-circuit rating	Short-circuit protection rating maximum fuse	Type "2" coordination	400 V	gG/gL 500 V	A	500	630	630	630	630	630	630	630	630	630	–		
			690 V	gG/gL 690 V	A	500	630	630	630	630	630	630	630	630	630	–		
			1000 V	gG/gL 1000 V	A	200	500	630	630	630	630	630	630	630	630	–		
			400 V	gG/gL 500 V	A	630	1000	1200	1200	1200	1200	1200	1200	1200	1200	–		
	Type "1" coordination	690 V	gG/gL 690 V	A	630	1000	1200	1200	1200	1200	1200	1200	1200	1200	1200	–		
		1000 V	gG/gL 1000 V	A	250	630	800	800	800	800	800	800	800	800	800	–		
		AC																
		AC-1 operation	Conventional free air thermal current, 3-pole, 50 – 60 Hz	Open	at 40 °C		A	857	980 1041	1102 1225	1225	1225	1225	1225	1225	1225	1714 2450	
at 50 °C					A	767	876 931	986 1095	1095	1095	1095	1095	1095	1095	1533 2190			
at 55 °C					A	731	836 888	940 1044	1044	1044	1044	1044	1044	1044	1462 2089			
at 60 °C					A	700	800 850	900 1000	1000	1000	1000	1000	1000	1000	1400 2000			
Enclosed ¹⁾					A	650	–	–	–	–	–	–	–	–	–	–	–	
Conventional free air thermal current, 1-pole					Open ¹⁾	A	1750	2000 2125	2250 2500	2500	2500	2500	2500	2500	2500	2500	3500 5000	
					Enclosed ¹⁾	A	1600	–	–	–	–	–	–	–	–	–	–	
AC-3 operation	AC-3 rated operational current, open, 50 – 60 Hz ¹⁾				220/230 V	I_e	A	500	580 650	750 820	820	820	820	820	820	820	820	1000
					240 V	I_e	A	500	580 650	750 820	820	820	820	820	820	820	820	1000
					380/400 V	I_e	A	500	580 650	750 820	820	820	820	820	820	820	820	1000
					415 V	I_e	A	500	580 650	750 820	820	820	820	820	820	820	820	1000
					440 V	I_e	A	500	580 650	750 820	820	820	820	820	820	820	820	1000
			500 V	I_e	A	500	580 650	750 820	820	820	820	820	820	820	820	1000		
			660/690 V	I_e	A	360	580 650	750 820	820	820	820	820	820	820	820	820	1000	
			1000 V	I_e	A	95	435 435	580 580	700	700	700	700	700	700	700	700	–	
			Rated power		220/230 V	P	kW	155	185 205	240 260	315	315	315	315	315	315	315	–
					240 V	P	kW	170	200 225	260 285	340	340	340	340	340	340	340	–
					380/400 V	P	kW	250	315 355	400 450	560	560	560	560	560	560	560	–
					415 V	P	kW	300	348 390	455 500	610	610	610	610	610	610	610	–
440 V	P				kW	345	370 420	480 525	650	650	650	650	650	650	650	–		
500 V	P				kW	360	420 470	550 600	730	730	730	730	730	730	730	–		
660/690 V	P				kW	344	560 630	720 750	1000	1000	1000	1000	1000	1000	1000	–		
1000 V	P				kW	132	600 600	800 800	1000	1000	1000	1000	1000	1000	1000	–		

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					Contactors DILM185	DILM225 DILM250	DILM300 DILM400
AC							
AC-4 operation	AC-4 rated operational current, open, 50 – 60 Hz	220/230 V	I_e	A	136	164 200	240 296
		240 V	I_e	A	136	164 200	240 296
		380/400 V	I_e	A	136	164 200	240 296
		415 V	I_e	A	136	164 200	240 296
		440 V	I_e	A	136	164 200	240 296
		500 V	I_e	A	136	164 200	240 296
		660/690 V	I_e	A	136	164 200	240 296
		1000 V	I_e	A	76	76 76	95 95
	Rated power	220/230 V	P	kW	41	51 62	75 92
		240 V	P	kW	45	54 68	82 101
		380/400 V	P	kW	75	90 110	132 160
		415 V	P	kW	80	96 117	142 176
		440 V	P	kW	85	102 125	151 186
		500 V	P	kW	96	116 143	172 214
		660/690 V	P	kW	127	155 189	229 283
		1000 V	P	kW	108	108 108	132 132
Capacitor duty							
Individual compensation rated operational current I_e of three-phase capacitors	Open	up to 525 V	I_e	A	220	220	307
		690 V	I_e	A	133	133	177
Max. inrush current peak				$\times I_e$	30	30	30
Component lifespan			Operations	$\times 10^6$	0.1	0.1	0.1
Max. operating frequency			Operations/h		200	200	200
DC							
operations					Page 5/97		
Rated operational current, open	DC-1 operation	60 V	I_e	A	300	300	400
		110 V	I_e	A	300	300	400
		220 V	I_e	A	300	300	400
		440 V	I_e	A	11	11	11
	DC-3 operation	60 V	I_e	A	300	300	400
		110 V	I_e	A	300	300	400
		220 V	I_e	A	300	300	400
	DC-5 operation	60 V	I_e	A	300	300	400
		110 V	I_e	A	300	300	400
		220 V	I_e	A	300	300	400
Current heat loss (3-pole)							
Current heat loss at I_{th}				W	79	108 95	123 188
Current heat loss at I_e to AC-3/400 V				W	36	55 48	69 120
Magnet systems							
Voltage tolerance ¹⁾	DILM... comfort series	Pick-up	$\times U_c$		$0.7 \times U_{c \min} - 1.15 \times U_{c \max}$		
	DILM...-S standard series	Pick-up	$\times U_c$		$0.85 \times U_{c \min} - 1.1 \times U_{c \max}$		
	DILM... comfort series	Drop-out	$\times U_c$		$0.2 \times U_{c \min} - 0.6 \times U_{c \min}$		
	DILM...-S standard series	Drop-out	$\times U_c$		$0.2 \times U_{c \min} - 0.4 \times U_{c \min}$		
Power consumption of the coil at cold state and $1.0 \times U_c$	DILM... comfort series	Pick-up	VA		250 ²⁾	250 ²⁾	450 ²⁾
	DILM... comfort series	Pick-up	W		200	200	350
	DILM... comfort series	Sealing	VA		4.3	4.3	4.3
	DILM... comfort series	Sealing	W		3.3	3.3	3.3
	DILM...-S standard series	Pick-up	VA		360	360	715
	DILM...-S standard series	Pick-up	W		325	325	645
	DILM...-S standard series	Sealing	VA		4.3	4.3	4.3
	DILM...-S standard series	Sealing	W		3.3	3.3	3.3

Notes

- ¹⁾ $U_{c \min}, U_{c \max} \in 5/77$
- ²⁾ Control transformer with $u_k \leq 6\%$
- ³⁾ Control transformer with $u_k \leq 7\%$

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Contactors DILM500	DILM580 DILM650	DILM750 DILM820	DILM1000	DILH1400 DILH2000
360	456 512	576 656	800	– –
360	456 512	576 656	800	– –
360	456 512	576 656	800	– –
360	456 512	576 656	800	– –
360	456 512	576 656	800	– –
360	456 512	576 656	800	– –
296	456 512	576 656	800	– –
95	348 348	464 464	700	– –
112	143 161	181 209	260	– –
122	156 176	200 228	280	– –
200	250 280	315 355	450	– –
216	274 307	346 394	490	– –
229	290 326	367 418	520	– –
260	330 370	417 474	590	– –
344	440 494	556 633	780	– –
132	509 509	678 678	1000	– –
307	463	463	463	–
177	265	265	265	–
30	30	30	30	–
0.1	0.1	0.1	0.1	–
200	200	200	200	–
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400	–	–	–	–
400	–	–	–	–
400	–	–	–	–
11	–	–	–	–
400	–	–	–	–
400	–	–	–	–
400	–	–	–	–
400	–	–	–	–
400	–	–	–	–
400	–	–	–	–
400	–	–	–	–
236	227 257	288 355	355	697 711
120	120 150	200 239	355	– –
$0.7 \times U_{c \min} - 1.15 \times U_{c \max}$				
$0.85 \times U_{c \min} - 1.1 \times U_{c \max}$				
$0.2 \times U_{c \min} - 0.6 \times U_{c \min}$				
$0.2 \times U_{c \min} - 0.4 \times U_{c \min}$				
450 ²⁾	800 ³⁾	800 ³⁾	800 ³⁾	800 ³⁾ 1600 ³⁾
350	700	700	700	700 1400
4.3	7.5	7.5	7.5	7.5 15
3.3	6.5	6.5	6.5	6.5 13
715	–	–	–	–
645	–	–	–	–
4.3	–	–	–	–
3.3	–	–	–	–



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				Contactors		
				DILM185	DILM225 DILM250	DILM300 DILM400
Magnet systems						
Duty factor			% DF	100	100	100
Switching times at 100 % U_c (approximate values)	Main contacts	DILM... comfort series	Closing delay	ms	< 100	< 80
			Opening delay	ms	< 80	< 80
	standard series	DILM...-S	Closing delay	ms	< 50	< 50
			Opening delay	ms	< 40	< 40
Reaction in threshold and transition range (comfort series)	Sealing state interruptions	Voltage	$(0 - 0.2 \times U_{c \min}) \leq 10$ ms		Time is bridged successfully	
			$(0 - 0.2 \times U_{c \min}) > 10$ ms		Drop-out of the contactor	
	Voltage dips	Voltage	$(0.2 - 0.6 \times U_{c \min}) \leq 12$ ms		Time is bridged successfully	
			$(0.2 - 0.6 \times U_{c \min}) > 12$ ms		Drop-out of the contactor	
	Excess voltage	Voltage	$(0.6 - 0.7 \times U_{c \min})$		Contactor remains switched on	
			$(1.15 - 1.3 \times U_{c \max})$		Contactor remains switched on	
			$(> 1.3 \times U_{c \max}) \leq 3$ s		Contactor remains switched on	
	Pick-up phase	Voltage	$(> 1.3 \times U_{c \max}) > 3$ s		Drop-out of the contactor	
			$(0 - 0.7 \times U_{c \min})$		Contactor does not switch on	
			$(0.7 \times U_{c \min} - 1.15 \times U_{c \max})$		Contactor switches on with certainty	
		$(> 1.15 \times U_{c \max})$		Contactor switches on with certainty		
Permissible contact resistance (of the external command device with actuation of A11)			mΩ	≤ 500	≤ 500	≤ 500
Permissible residual current (with actuation of A11 by the electronics with 0 signal)			mA	≤ 1	≤ 1	≤ 1
SPS signal level (A3 - A4) to IEC/EN 61131-2 (type 2)	High		V	15	15	15
	Low		V	5	5	5
Electromagnetic compatibility (EMC)						
Electromagnetic compatibility				This product is designed for operation in industrial environments (environment 2). Usage in domestic areas (environment 1) can cause radio frequency interference (RFI) so that additional interference so noise suppression measures must be provided.		

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Contactors					
DILM500	DILM580 DILM650	DILM750 DILM820	DILM1000	DILH1400 DILH2000	
100	100	100	100	100	
< 80	< 70	< 70	< 70	< 70	
< 80	< 70	< 70	< 70	< 40	
< 50	-	-	-	-	
< 40	-	-	-	-	
Time is bridged successfully					
Drop-out of the contactor					
Time is bridged successfully					
Drop-out of the contactor					
Time is bridged successfully					
Drop-out of the contactor					
Contactor remains switched on					
Contactor remains switched on					
Contactor remains switched on					
Drop-out of the contactor					
Contactor does not switch on					
Contactor switches on with certainty					
Contactor switches on with certainty					
≤ 500	≤ 500	≤ 500	≤ 500	≤ 500	
≤ 1	≤ 1	≤ 1	≤ 1	≤ 1	
15	15	15	15	15	
5	5	5	5	5	
This product is designed for operation in industrial environments (environment 2). Usage in domestic areas (environment 1) can cause radio frequency interference (RFI) so that additional interference so noise suppression measures must be provided.					

5/124 Technical data

DILMK contactor for capacitors

Moeller HPL0211-2004/2005

			DIL00MK	DIL0MK	DIL1MK	DIL2MK	DIL2MKV	DIL3MK72	
General									
Standards			IEC/EN 60947, VDE 0660						
Ambient temperature									
Open	°C		-25/50	-25/50	-25/50	-25/50	-25/50	-25/55	
Enclosed	°C		-25/40	-25/40	-25/40	-25/40	-25/40	-25/40	
Mounting position									
Degree of protection			IP20	IP00	IP00	IP00	IP00	IP00	
Protection against direct contact when actuated from front (IEC 536)			Finger- and back-of-hand proof						
Basic unit weight									
AC operated	kg		0.32	0.42	0.71	0.95	0.95	2	
Main conductor cross-sections ¹⁾									
Solid	mm ²		1 × (0.75 – 4) 2 × (0.75 – 4)	1 × (1 – 6) 2 × (1 – 6)	1 × (2.5 – 10) 2 × (2.5 – 10)	1 × (2.5 – 16) 2 × (2.5 – 16)	1 × (2.5 – 16) 2 × (2.5 – 16)	1 × (6 – 16) 2 × (6 – 16)	
Flexible with ferrule	mm ²		1 × (0.75 – 4) 2 × (0.75 – 4)	1 × (1 – 6) 2 × (1 – 6)	1 × (2.5 – 16) 2 × (2.5 – 10)	1 × (2.5 – 25) 2 × (2.5 – 10)	1 × (2.5 – 25) 2 × (2.5 – 10)	1 × (4 – 50) 2 × (4 – 50)	
Stranded	mm ²		–	–	1 × (10 – 25) 2 × 10	1 × (10 – 35) 2 × 10	1 × (10 – 35) 2 × 10	1 × (16 – 50) 2 × (16 – 50)	
Solid or stranded	AWG		18 – 10	16 – 10	12 – 4	12 – 2	12 – 2	10 – 2	
Group compensation									
Rated operational current									
of three-phase capacitors, open ²⁾									
230 V	I_e	A	15	23	40	53	63	77	
400 V	I_e	A	15	26	38	51	58	72	
525 V	I_e	A	15	23	39	51	48	66	
690 V	I_e	A	15	20	30	40	–	63	
of three-phase capacitors, enclosed ²⁾									
230 V	I_e	A	13	22	32	46	59	71	
400 V	I_e	A	15	22	32	46	54	68	
525 V	I_e	A	12	22	32	44	44	66	
690 V	I_e	A	12	17	25	37	–	63	
Making capacity (i-peak value) without damping			× I_e	180	180	180	180	180	180
Component lifespan			Operations	× 10 ⁶	0.2	0.1	0.1	0.1	0.1
Maximum operating frequency			Operations/h		200	200	200	200	100

Notes

¹⁾ Maximum of one size difference permissible when using 2 conductors
²⁾ at maximum permissible ambient temperature.

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			Auxiliary contacts				
			DIL00(A)(B)M-01, DIL00(A)(B)M-10	...DILM	DILM820-XHI...	...SDILM	DILP800-XHI
Auxiliary contacts							
Interlocked opposing contacts to ZH1/457 within an auxiliary contact module			Yes	Yes	Yes	Yes	–
Break contact (not late-break contact) suitable as a mirror contact (to IEC/EN 60947-4-1 Annex F)			DIL00(A)(B)M	DIL00M – DIL2AM	DIL0M – DIL3AM85 DILM185 – DILM1000	DIL0M – DIL2AM	–
Rated impulse withstand voltage	U_{imp}	V AC	6000	6000	6000	6000	6000
Overvoltage category/pollution degree			III/3	III/3	III/3	III/3	III/3
Rated insulation voltage	U_i	V AC	690	690	690	690	690
Rated operational voltage	U_e	V AC	500	500	500	500	690
Safe isolation to VDE 0106 Part 101 and Part 101/A1							
between coil and auxiliary contacts		V AC	440	440	440	440	1000
Between the auxiliary contacts		V AC	440	440	440	440	400
Rated operational current							
AC-15							
230 V	I_e	A	6	6	6	6	6
380/415 V	I_e	A	4	4	4	4	4
500 V	I_e	A	1.5	1.5	1.5	1.5	1
DC-13 L/R ≤ 15 ms ¹⁾							
24 V	I_e	A	10	10	10	10	6
60 V	I_e	A	6	6	6	6	4
110 V	I_e	A	3	3	3	3	1.8
220 V	I_e	A	1	1	1	1	0.6
Conventional thermal free air current	I_{th}	A	16	16	10	16	10
Control circuit reliability (at $U_e = 24$ V DC, $U_{min} = 17$ V, $I_{min} = 5.4$ mA)	Failure rate	λ	<10 ⁻⁸ , < 1 one failure at 100 million operations				
Component lifespan			See characteristic curve				
at $U_e = 230$ V, AC-15, 3 A		Operations					0.5
Short-circuit rating without welding							
max. fuse		A gG/gL	16	16	16	16	10
Maximum overcurrent protective device (220/230 V)			–	FAZ-C4	FAZ-C4	–	–



		P1DILEM P1DIL00M	P1DIL0M	P1DIL1M	P1DIL2M	P1DIL3M	P1DIL4M
Paralleling link							
Terminal capacity							
Solid	mm ²	1 – 16	1 – 16	16	16	1 – 16	–
Flexible with ferrule	mm ²	1 × (0.5 – 25) 2 × (0.5 – 16)	1 × (0.5 – 50) 2 × (0.5 – 16)	1 × (6 – 95) 2 × (6 – 25)	1 × (6 – 150) 2 × (6 – 50)	–	–
Stranded	mm ²	1 × (0.5 – 25) 2 × (0.5 – 16)	1 × (0.5 – 50) 2 × (0.5 – 16)	1 × (6 – 95) 2 × (6 – 25)	1 × (6 – 150) 2 × (6 – 50)	1 × (16 – 185) 2 × (10 – 95)	1 × (30 – 300) 2 × (70 – 120)
Flat conductor	Number of segments × width × thickness mm	6 × 9 × 0.8	6 × 9 × 0.8	–	–	2 × (10 × 16 × 0.8)	2 × (11 × 21 × 1)

		DILM225-XKU-S	DILM400-XKU-S	DILM185-XP1	DILM650-XKB-S	DILM820-XKB-S
Cable terminal block, flat cable terminal						
Terminal capacity						
Stranded	mm ²	1 × (16 – 185) 2 × (16 – 150)	1 × (120 – 300) 2 × (70 – 240)	–	–	–
Stranded	AWG	1 × (6 – 350 MCM) 2 × (6 – 300 MCM)	1 × (1/0 – 600 MCM) 2 × (1/0 – 500 MCM)	–	–	–
Flat conductor	Number of segments × width × thickness mm	1 × (3 × 9 × 0.8) 2 × (10 × 16 × 0.8)	1 × (10 × 16 × 0.8) 2 × (20 × 24 × 0.5) 2 × (11 × 21 × 1)	1 × (6 × 16 × 0.8) 2 × (20 × 32 × 0.5) 2 × (11 × 21 × 1)	1 × (6 × 16 × 0.8) 2 × (20 × 32 × 0.5) 2 × (11 × 21 × 1)	1 × (6 × 16 × 0.8) 2 × (10 × 40 × 1) 2 × (20 × 40 × 0.5)
Control circuit cable cross-sections						
Solid	mm ²	1 × (0.75 – 4) 2 × (0.75 – 4)	1 × (0.75 – 4) 2 × (0.75 – 4)	1 × (0.75 – 4) 2 × (0.75 – 4)	1 × (0.75 – 4) 2 × (0.75 – 4)	1 × (0.75 – 4) 2 × (0.75 – 4)
Flexible with ferrule	mm ²	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)



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			DILP160	DILP250	DILP315	DILP500	DILP630	DILP800
General								
Standards			IEC/EN 60947, VDE 0660					
Lifespan, mechanical								
AC operated	Operations	× 10 ⁶	10	10	10	5	5	5
Maximum operating frequency								
Mechanical, AC operated	Operations/h		3600	3600	3600	3600	3600	3600
Electrical	Operations/h		600	600	600	300	300	300
Climatic proofing			To LR test specification No. 1 (ENV 1, 2, 3), based on IEC/EN 60068-2-30 and IEC/EN 60068-2-78					
Ambient temperature								
Open		°C	-40/70	-40/70	-40/70	-40/70	-40/70	-40/70
Mounting position								
Mechanical shock resistance, half-sinusoidal shock 15 ms								
Main contacts	Make contact	g	10	10	10	10	10	10
Degree of protection			IP00					
Protection against direct contact when actuated from front (IEC 536)			finger and back-of-hand proof with terminal shroud					
Weight			kg					
			4.35	4.35	6.65	17.2	17.2	17.2
Main cable cross-section								
Solid or stranded		mm ²	10 – 70	35 – 120	35 – 120	1 × (70 – 300) 2 × (35 – 185)	1 × (70 – 300) 2 × (35 – 185)	1 × (70 – 300) 2 × (35 – 185)
Flat conductor			See box terminal set a 5/61					
Busbar connection	max.	mm	30 × 6	30 × 10	30 × 10	55 × 10	55 × 10	55 × 10
Terminal screw			M10					
Tightening torque			Nm					
			12 – 16	12 – 16	12 – 16	12 – 16	12 – 16	12 – 16
Control circuit cable cross-sections								
Solid		mm ²	2 × (0.5 – 2.5)	2 × (0.5 – 2.5)	2 × (0.5 – 2.5)	2 × (0.5 – 2.5)	2 × (0.5 – 2.5)	2 × (0.5 – 2.5)
Terminal screw			M3.5					
Tightening torque			Nm					
			1.2	1.2	1.2	1.2	1.2	1.2
Main contacts								
Rated impulse withstand voltage	U_{imp}	V AC	8000	8000	8000	8000	8000	8000
Overvoltage category/pollution degree			III/3					
Rated insulation voltage	U_i	V AC	1000	1000	1000	1000	1000	1000
Rated operational voltage	U_e	V AC	1000	1000	1000	1000	1000	1000
Safe isolation to VDE 0106 Part 101 and Part 101/A1								
between coil and contacts		V AC	1000	1000	1000	1000	1000	1000
between the contacts		V AC	690	690	690	690	690	690
Making capacity (cos φ to IEC/EN 60947)			A					
			1700	1800	2300	5000	5000	5500
Breaking capacity								
	230 V	A	1400	1500	2000	5000	5000	5400
	380/400 V	A	1400	1500	2000	5000	5000	5400
	500 V	A	1100	1200	1700	5000	5000	5400
	660/690 V	A	1100	1200	1700	5000	5000	5400
Component lifespan			Operations					
			Page 5/94					
Short-circuit rating								
Short-circuit protection rating maximum fuse								
Type "2" coordination	gG/gL	A	200	200	315	630	630	630
Type "1" coordination	gG/gL	A	250	250	355	630	630	800
Short-time withstand capability 10 s			A					
			1700	1800	2300	5500	5500	5500



				DILP160	DILP250	DILP315	DILP500	DILP630	DILP800
AC									
AC-1 operation									
Component lifespan	Operations	$\times 10^6$		0.5	0.3	0.3	0.1	0.1	0.2
Conventional free air thermal current Δ rated operational current, 4-pole open up to 690 V									
Open at 40 °C		A		160	250	315	500	630	800
Open at 55 °C		A		160	230	270	470	470	650
1-pole open		A		450	700	880	1400	1760	2240
AC-3 operation									
Component lifespan	Operations	$\times 10^6$		0.5	1	1	0.6	0.6	0.5
AC-3 rated operational current, open, 50 – 60 Hz, 3-pole									
220/230/240 V	I_e	A		120	145	210	400	400	550
380/400/440 V	I_e	A		120	145	210	400	400	550
500 V ¹⁾	I_e	A		120	120	210	370	370	550
660/690 V ¹⁾	I_e	A		120	120	210	370	370	550
1000 V ¹⁾	I_e	A		64	80	113	155	155	175
AC-3 motor load switch motor rating									
220/230/240 V	P	kW		30	45	59	110	110	160
380/400/440 V	P	kW		55	75	110	200	200	280
660/690 V ¹⁾	P	kW		110	110	160	355	355	500
1000 V ¹⁾	P	kW		90	110	160	220	220	250
DC									
Operations				5/97	5/97	5/97	5/97	5/97	5/97
Rated operational current, open									
DC-1 duty, L/R max. 1 ms									
60 V	I_e	A		120	200	300	370	550	800
110 V	I_e	A		120	200	300	370	550	800
220 V	I_e	A		120	200	300	370	550	800
440 V	I_e	A		120	200	260	370	450	650
DC-3 duty, L/R max. 2 ms									
60 V	I_e	A		120	145	210	450	450	650
110 V	I_e	A		135	135	210	450	450	650
220 V	I_e	A		135	135	210	450	450	650
440 V	I_e	A		135	135	170	450	450	650
DC-5 duty, L/R max. 7.5 ms									
60 V	I_e	A		135	135	210	450	450	650
110 V	I_e	A		135	135	210	450	450	650
220 V	I_e	A		135	135	210	450	450	650
440 V	I_e	A		135	135	170	450	450	650
Current heat loss (4-pole)									
With conventional free air thermal current I_{th}			W	32	52	65	145	184	240
Magnet systems									
Pick-up and drop-out values									
AC operated		Pick-up	$\times U_c$	0.85 – 1.1	0.85 – 1.1	0.85 – 1.1	0.85 – 1.1	0.85 – 1.1	0.85 – 1.1
Power consumption of the coil at cold state and $1.0 \times U_c$									
AC operated		Pick-up	VA	800	800	1100	3500	3500	3500
Dual-voltage coil 50 Hz		Sealing	VA	44	44	52	125	125	125
Dual-voltage coil 50 Hz		Sealing	W	15	15	18	50	50	50
Dual-voltage coil 60 Hz		Sealing	VA	52	52	65	140	140	140
Dual-voltage coil 60 Hz		Sealing	W	18	18	22	60	60	60
Duty factor			% DF	100	100	100	100	100	100
Switching times at 100 % U_c (approximate values)									
AC operated									
Closing delay			ms	20 – 40	20 – 40	20 – 40	30 – 60	30 – 60	30 – 60
Opening delay			ms	7 – 15	7 – 15	7 – 15	10 – 20	10 – 20	10 – 20

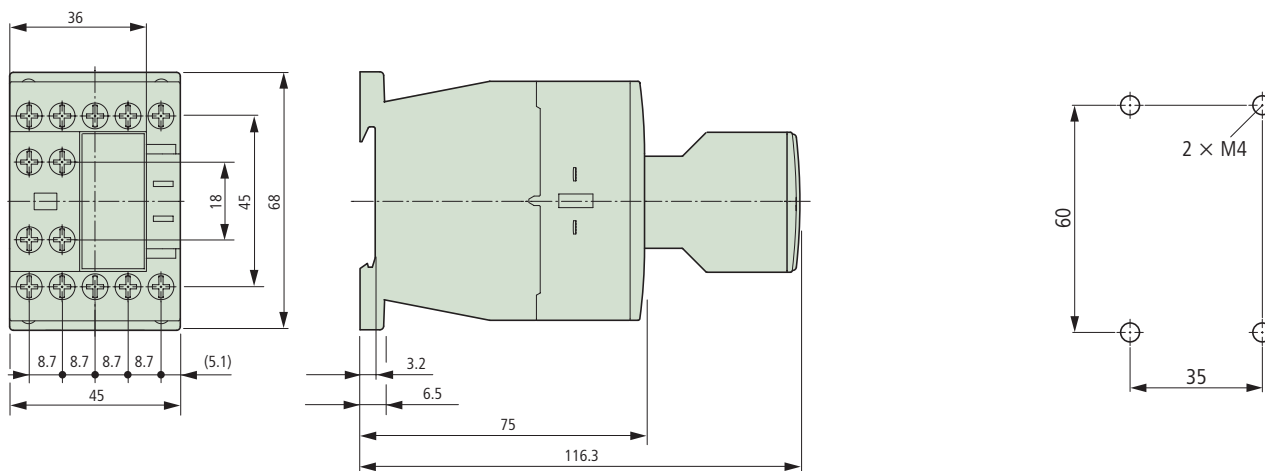
Notes

¹⁾ Do not reverse directly

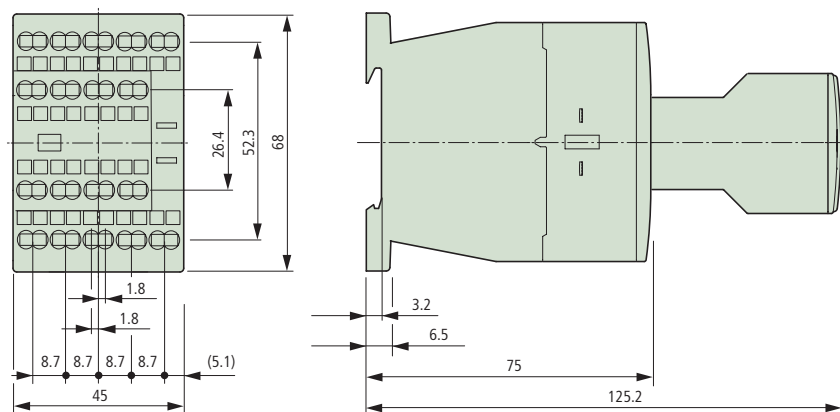


Contactors

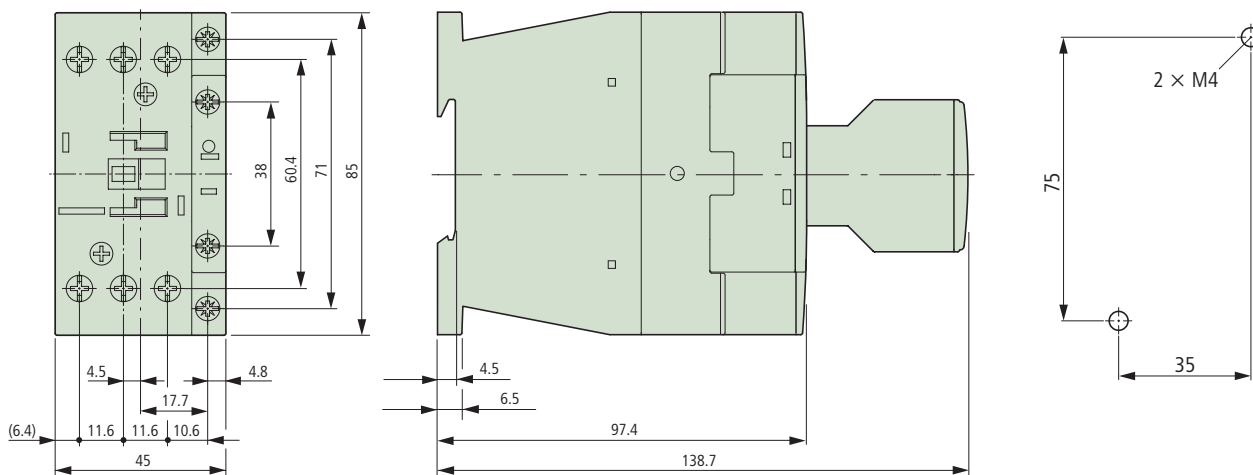
DILM7
 DILM9
 DILM12



DILMC7
 DILMC9
 DILMC12

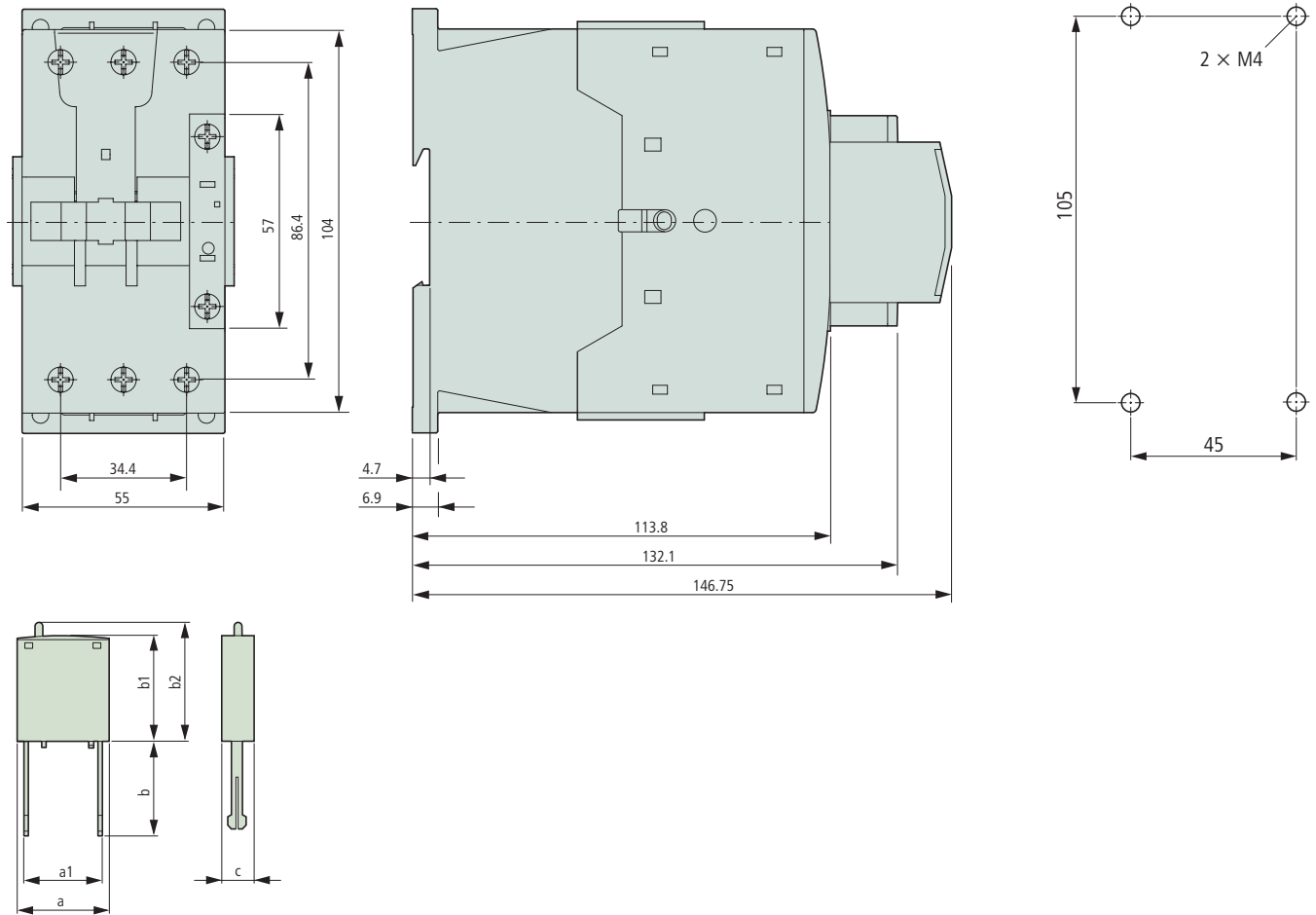


DILM17
 DILM25
 DILM32



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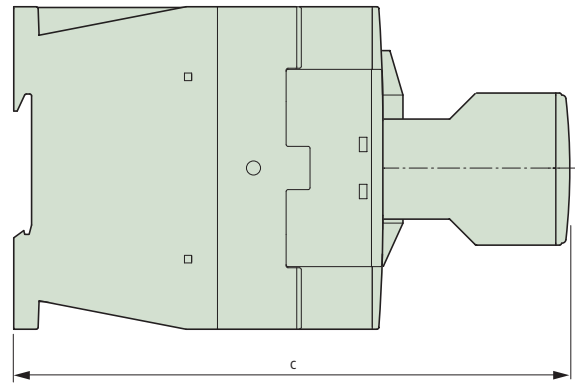
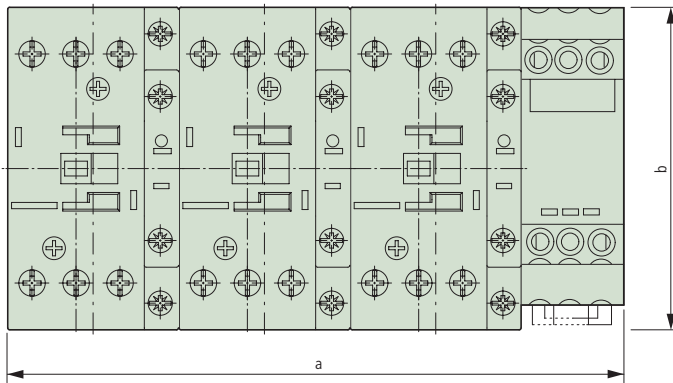
DILM40
DILM50
DILM65



	DILM12-XSPR... XSPV...	DILM32-XSPR... XSPV...	DILM95-XSPR... XSPV...
a	25	25	25
a1	9.2	9.2	20
b	25.9	16	18.5
b1	28	28	28
b2	≈32	≈32	≈32
c	9	9	9

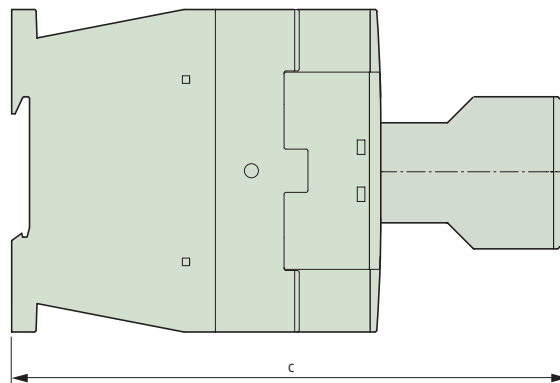
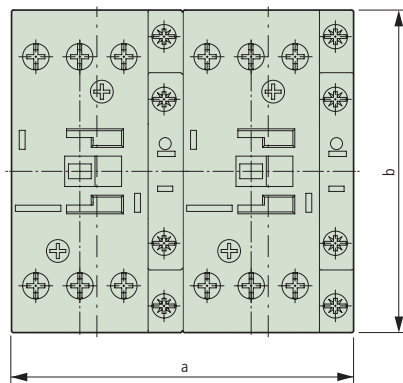


SDAINLM... star-delta combination



	SDAINLM12 – SDAINLM22	SDAINLM30 – SDAINLM55
a	158	158
b	68	85
c	125.2	147.3

Reversing combination



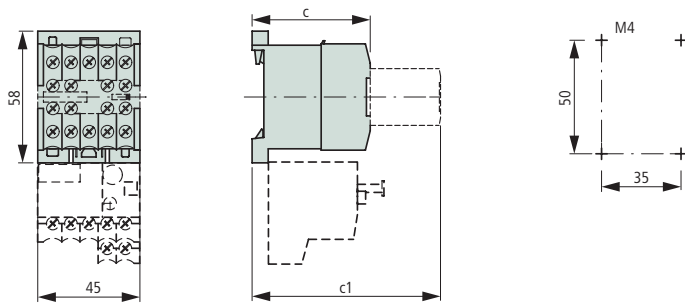
	DIULM7/21 – DIULM12/21	DIULM17/21 – DIULM32/21	DIULM40/11 – DIULM50/11
a	90	90	110
b	68	85	115
c	125.2	147.3	146.75



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Mini contactor relay

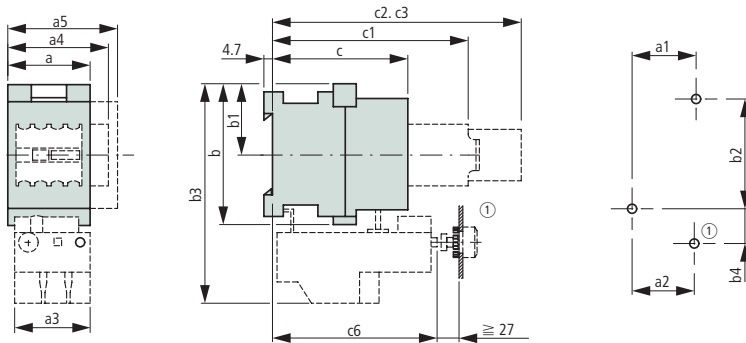
DILE(E)M-...(-C)
DILE(E)M-...-G(-C)



	DILE(E)M(-G)	DILE(E)M(-G)-C
c	52	54
c1	83	86

Contactors

DIL00M to DIL2AM
DIL00M-G to DIL2AM-G



DIL00(A)M	2 M4 × 16
DIL0(A)M	2 M4 × 16
DIL1(A)M	2 M5 × 16
DIL2(A)M	2 M5 × 16

① RESET/ON

With DC operation, side-by-side mounting of the DIL00M-G(-C) to DIL2AM-G contactors requires a minimum clearance of 5 mm.

DIL	00M -G		00M-C -G-C		0M -G		1M -G		2M -G	
	00AM -G	00BM -G	00AM-C -G-C		OAM -G		1AM -G		2AM -G	
a	45	45	45	45	45	45	60	60	70	70
a1	35	35	35	35	35	35	50	50	60	60
a4	-	-	-	-	55	55	70	70	80	80
a5	-	-	-	-	60	60	80	80	90	90
b	77	77	83	83	91	91	98	98	118	118
b1	39	39	41.5	41.5	46	46	49	49	59	59
b2	60	60	60	60	75	75	75	75	90	90
c (without HDIL)	74	99	74	99	79	104	97	122	102	127
c (with HDIL)	76.5	101.5	-	-	86.3	113.3	-	-	-	-
c1	107	132	107	132	112	137	130	155	135	160
c2	136	161	136	161	141	166	159	184	164	189
c3	137	162	137	162	-	-	-	-	-	-

Overload relays

Z	00				00		1		1	
a2	34	34	-	-	34	34	42	42	47	47
a3	45	45	-	-	45	45	60	60	60	60
b3	120	120	-	-	133	133	153	153	171	171
b4	19	19	-	-	18	18	26	26	27	27
c6	90	115	-	-	96	121	91	116	91	116

a4 = With side mounted auxiliary contact module with DIL0M to DIL2AM,

a5 = With 4 pole NDIL...M

c1 = With ...DILM auxiliary contact module

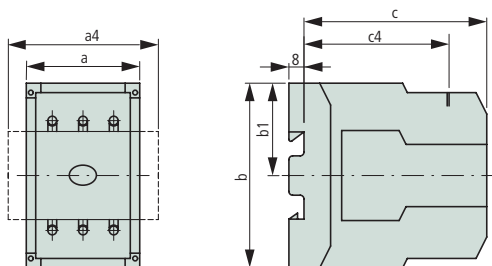
c2 = With TP...11DIL pneumatic timer module

c3 = With V(-G)DIL mechanical latching module

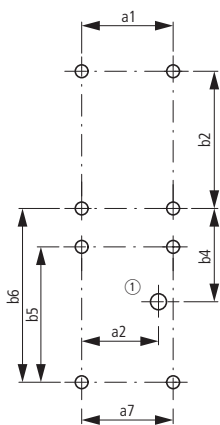
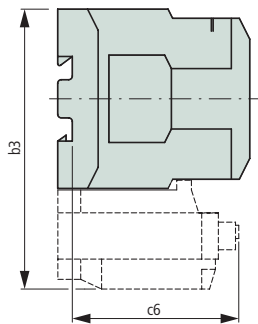
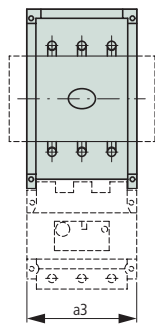


Contactors

DIL3(A)M80/85
DIL4(A)M115/145
DIL3MK72



DIL3(A)M80/85 + Z5-.../SK3
DIL4(A)M115/145 + Z5-.../SK4



DIL3(A)M80/85	2 M5 × 20
Z5-.../SK3	2 M5 × 20
DIL4(A)M115/145	2 M6 × 20
Z5-.../SK4	2 M6 × 20

① RESET/ON

	DIL 3M80 3MK72 3AM85	DIL 4M115 4AM145
a	100	120
a1	80	100
a4	117	137
b	130	150
b1	65	75
b2	110	130
c	127	137
c4	77	79

Overload relays

	Z5-.../SK3	Z5-.../SK4
a2	57	67
a3	100	120
a7	80	80
b3	238	263
b4	51	56
b5	74	74
b6	95	100
c6	125	125

a4 = With 2nd side mounted auxiliary contact module DILM820-XHI11-SA with DIL3M80 to DIL4AM145

c4 = Termination's

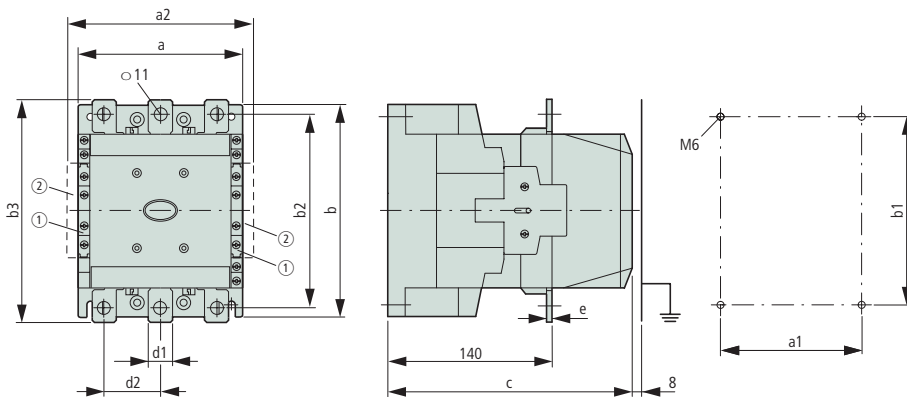


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Contactors

DILM185
DILM225
DILM250

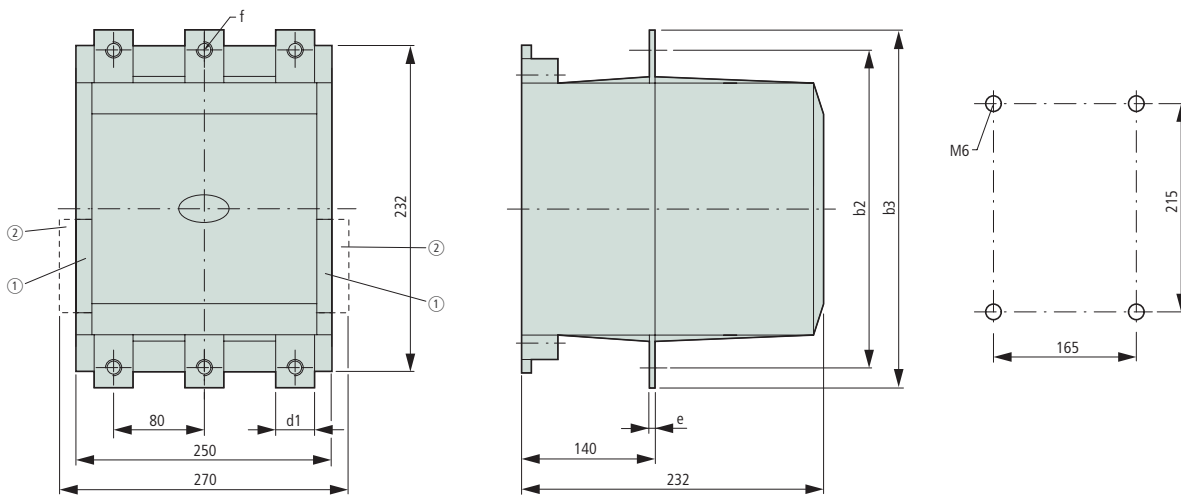
DILM300
DILM400
DILM500



① DILM820-XHI...-SI
② DILM820-XHI11-SA

DIL	M185	M225	M250	M300	M400	M500
a	140	140	140	160	160	160
a1	120	120	120	130	130	130
a2	160	160	160	180	180	180
b	180	180	180	200	200	200
b1	160	160	160	180	180	180
b2	164	164	164	184	184	189
b3	189	189	189	209	209	219
d1	20	20	25	25	25	38
d2	48	48	48	48	48	57
e	5	5	5	6	6	6
c	208	208	208	216	216	216

DILM580
DILM650
DILM750
DILM820
DILM1000



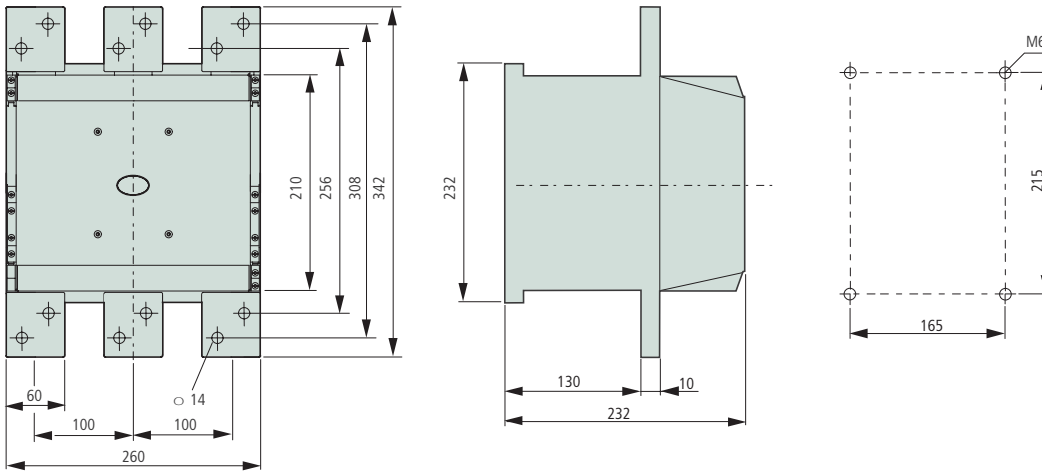
① DILM820-XHI...-SI
② DILM820-XHI11-SA

DIL	M580	M650	M750	M820	M1000
b2	256	256	256	256	256
b3	286	286	296	296	296
d1	35	35	45	45	45
e	6	6	6	6	10
f	11	11	13.5	13.5	13.5

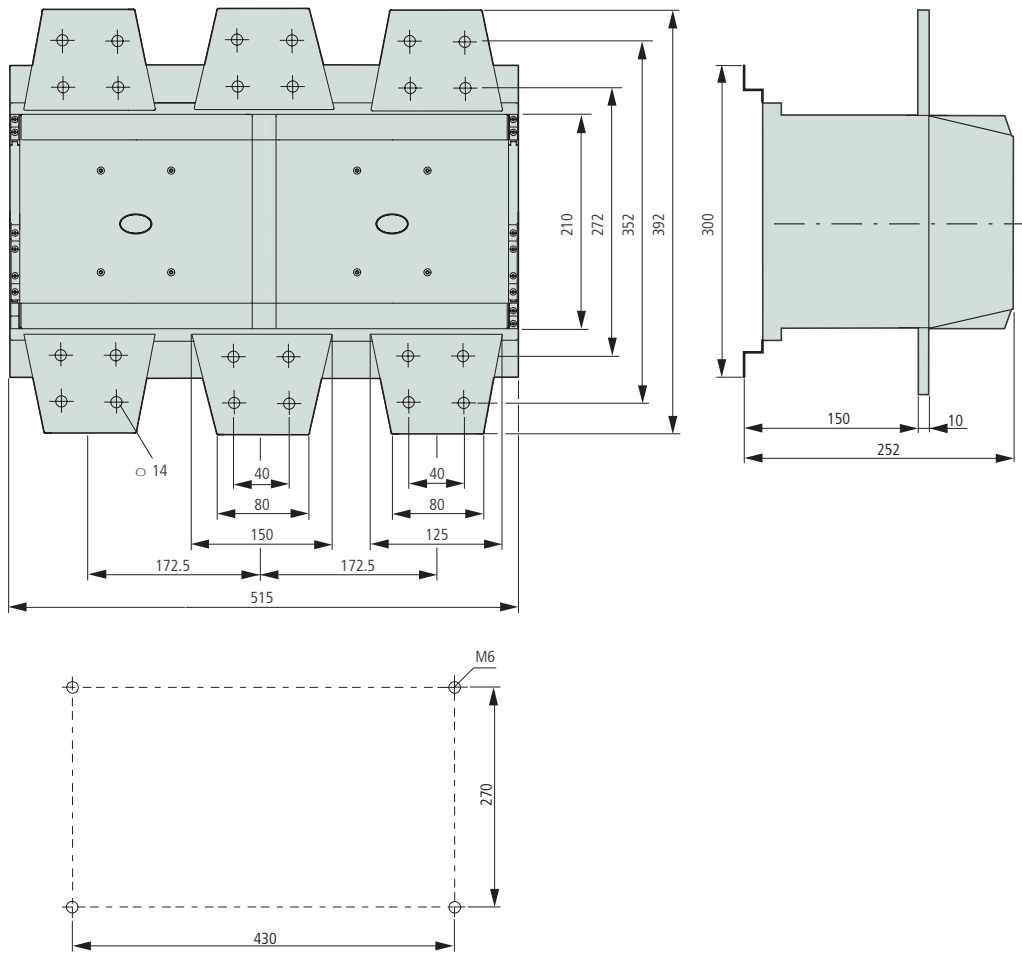


Contactors

DILH1400

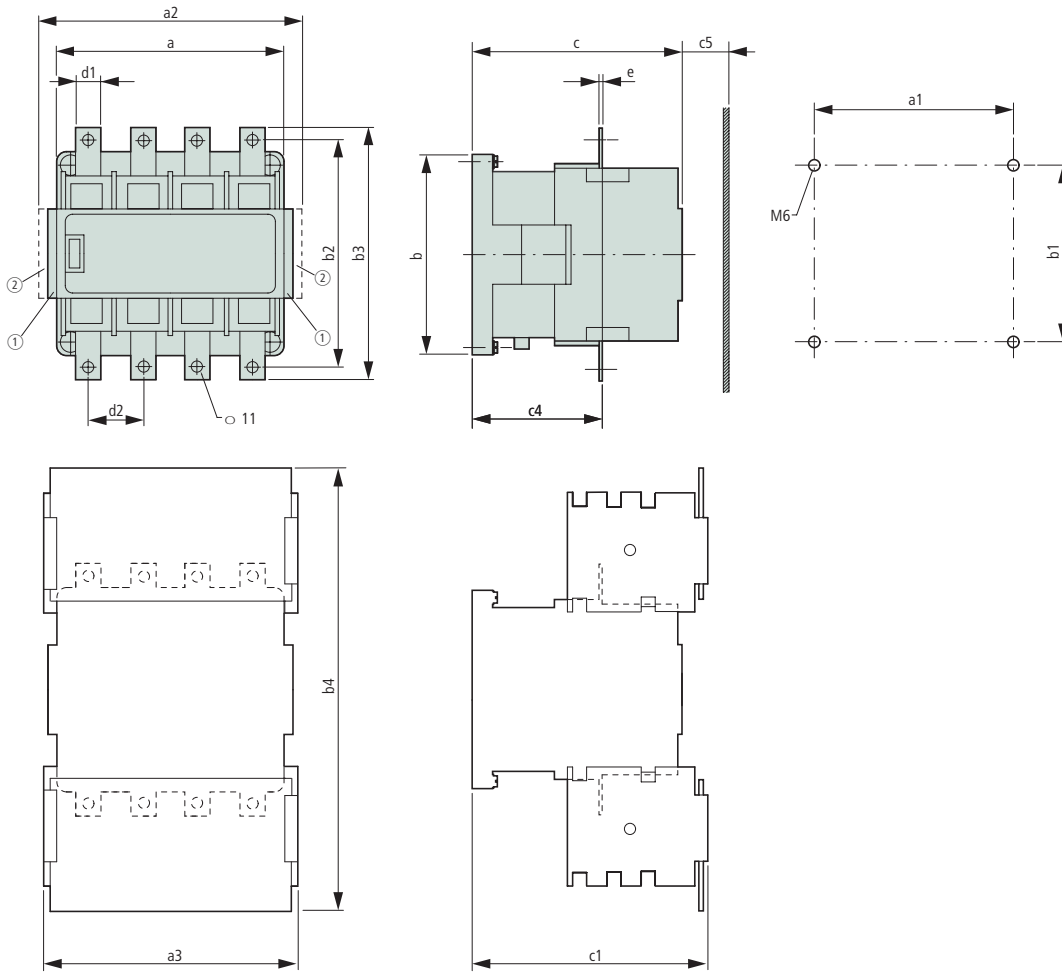


DILH2000



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DILP160 DILP500
DILP250 DILP630
DILP315 DILP800



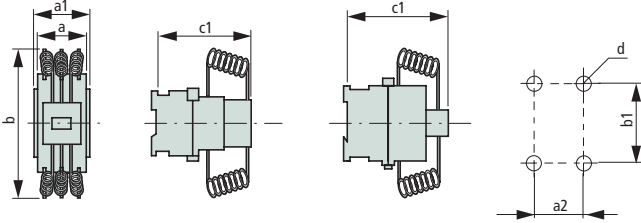
DIL	P160	P250	P315	P500	P630	P800
a	165	165	202	270	270	270
a1	120	120	160	220	220	220
a2	190	190	226	295	295	295
a3	168	168	202	268	268	268
b	156	156	156	223	223	223
b1	140	140	140	200	200	200
b2	152	152	178	247	247	247
b3	172	172	198	272	272	272
b4	280	280	340	464	464	464
c	155	155	172	225	225	225
c1	203	203	208	243	243	243
c4	107	107	112	143	143	143
c5	40	40	15	40	40	40
d1	20	20	20	25	25	25
d2	42	42	45	67	67	67
e	4	4	5	6	6	6

- ① DILP800-XHI-SI
DILP800-XHIV-SRI
- ② DILP800-XHI-SA



Contactors for capacitors with series resistor

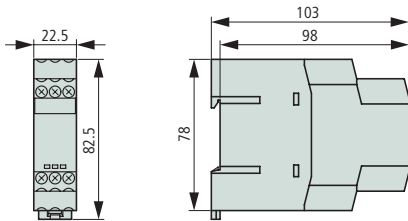
DIL00MK-11 DIL00MK-11 DIL0MK-10
 DIL00MK-02 DIL00MK-02 DIL1MK-10
 DIL0MK-10 DIL2MK-10
 DIL1MK-10
 DIL2MK-10



DIL	00MK-11(02)	0MK-10	1MK-10	2MK-10	2MKV-00
a	45	45	60	70	70
b	~115	~165	~180	~190	~190
c1	109	114.5	132.5	137	137
	With 2 × 01SDILM				
a1	–	65	80	90	90
a2	35	35	50	60	60
b1	60	75	75	90	90
d	M4	M4	M5	M5	M5

Quick-discharge resistor

EWDIL

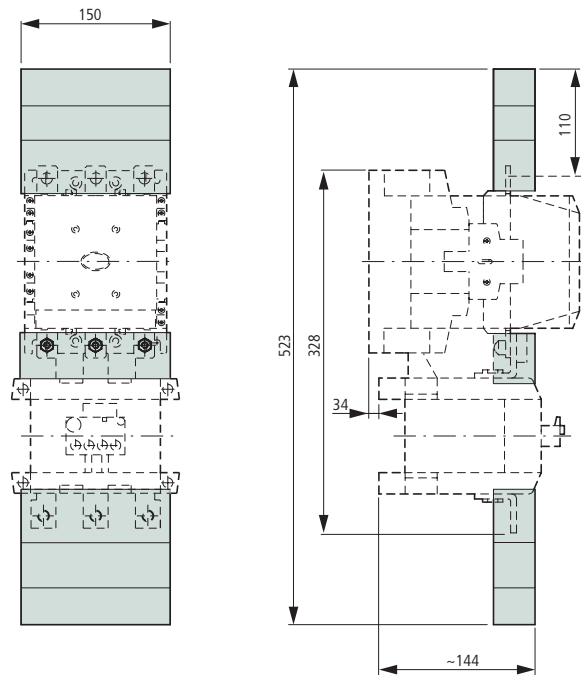
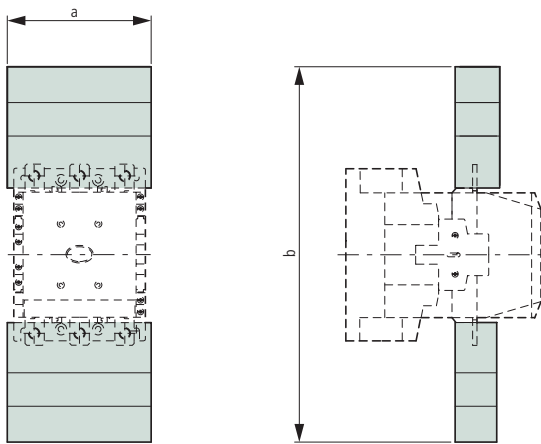


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Contactor with terminal shroud

DILM185 to DILM1000 with DILM...-XHB

DILM185 to DILM250 with Z5-.../FF250

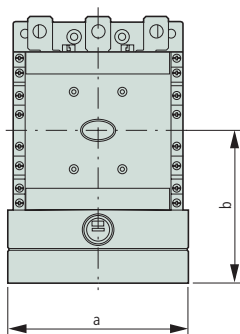


	DILM185 DILM225 DILM250 DILM185-XP1	DILM300 DILM400	DILM500	DILM580 DILM650 DILM750 DILM820 DILM1000
a	150	150	174	236
b	384	404	426	506



Contactor with star-point bridge + terminal shroud

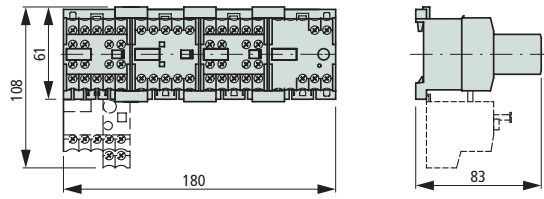
DILM...-XS1



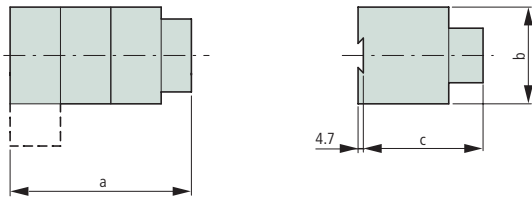
DILM	185 – 250	300 – 400	500
a	150	150	176
b	127	137	146

Star-delta starter combinations

SDAINLEM

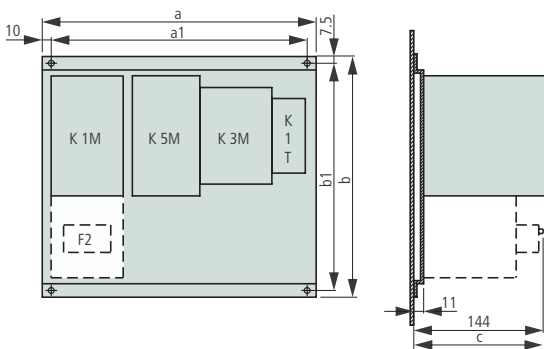


SDAINL00AM to 2AM



SDAINL	00AM	0M 0AM	1M 1AM	2M	2AM
a	162	162	188	208	233
b	77	91	98	118	118
c	107	112	130	135	135

SDAINL3M125 to SDAINL4AM250

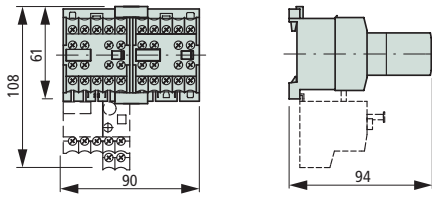


SDAINL	3(A)M125/150	4(A)M180/250
a	305	377
a1	285	357
b	268	294
b1	253	279
c	146	156

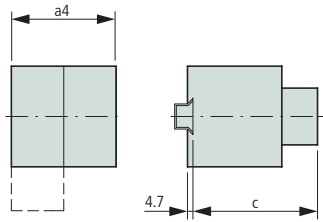
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Reversing combination

DIULE(E)M

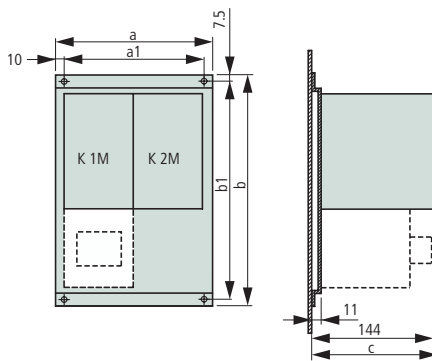


DIUL00AM/11 to DIUL2AM/11



DIUL	00AM	0M 0AM	1AM	2M 2AM
a4	90	90	120	140
c	107	112	130	135

DIUL3(A)M80/11 to DIUL4AM145/11

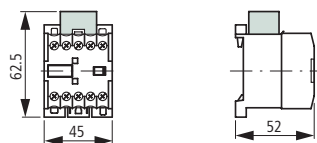


DIUL	3(A)M80/85	4(A)M115/145
a	225	265
a1	205	245
b	268	294
b1	253	279
c	146	156

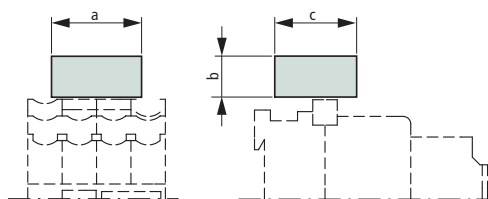


Suppressor

RCDILE
VGDILE



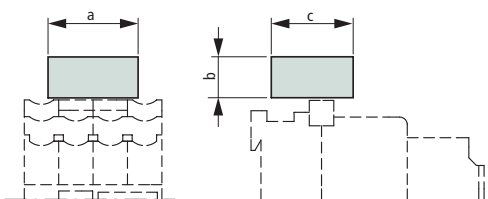
RCBDIL...
RCSDIL...
FBDIL...
VGBDIL...
VGCDIL



	RCBDIL	RCSDIL	FBDIL	VGBDIL	VGCDIL
a	33	33	33	33	38
b	15	15	15	15	8
c	30	30	30	30	33

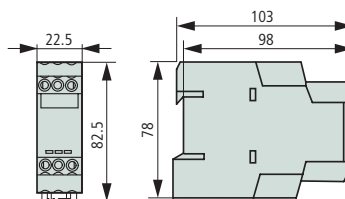
Amplifier modules

VS1DIL
VS2DIL



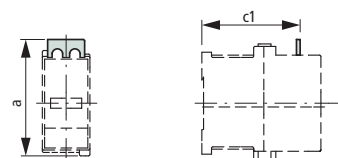
	VS1DIL VS2DIL
a	45
b	26
c	55

ETS4-VS3



Star-point bridge

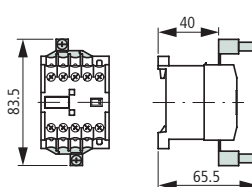
S1DIL...M



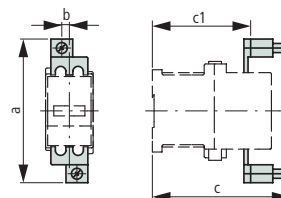
S1DIL	00M	0M	1M	2M	3M	4M
a	77	91	106	126	150	169
c1	65	69	79	79	92	93

Paralleling link

P1DILEM



P1DIL...M

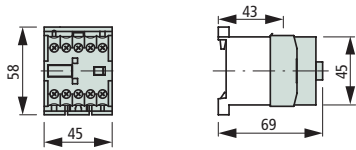


for DIL	00(A)M(-G)	0(A)M(-G)	1(A)M(-G)	2(A)M(-G)	3(A)M80/85	4(A)M115/145
a	95	114	170	188	195	244
b	5	-	9	12	19	17
c	91 (116)	103 (128)	138 (163)	138 (163)	150	182
c1	65 (90)	69 (94)	79 (101)	79 (101)	88	92

Moeller HPL0211-2004/2005

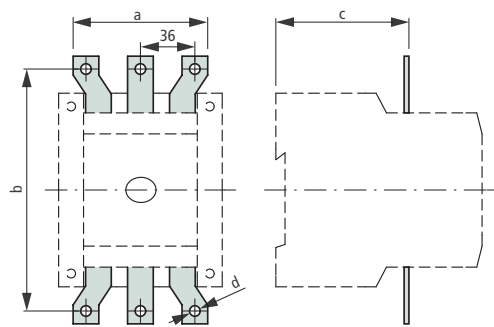
Sealable shroud

HDILE



Adapter

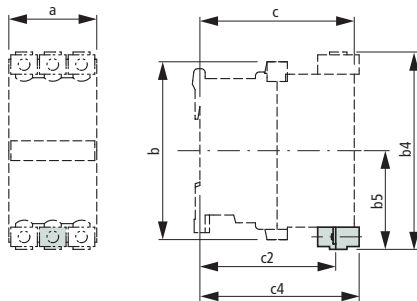
AKDIL.. M



for DIL	AKDIL...	
	3(A)M80/85	4(A)M115/145
a	89	94
b	160	190
c	88	91
d	7	8.4

Extension terminals

ZKDIL0M
ZKDIL1M
ZKDILM
HKDILM



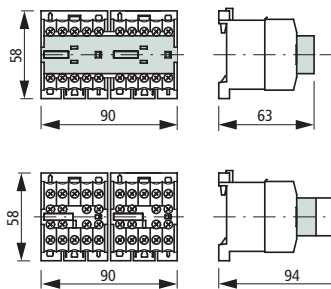
for DIL	ZKDIL0M		ZKDIL1M				ZKDILM	
	0 (A)M	(-G)	1(A)M	(-G)	2(A)M	(-G)	3(A)M80/85	4(A)M115/145
a	45	(45)	60	(60)	70	(70)	100	120
b	91	(91)	98	(98)	118	(118)	-	-
b4	101	(101)	98	(98)	112.5	(112.5)	136	166
b5	50.5	(50.5)	49	(49)	56.3	(56.3)	68	83
c	79	(104)	97	(122)	102	(127)	127	137
c2 (max. with HKDILM)	69.5	(94.5)	80.5	(105.5)	80.5	(105.5)	102	105
c4 (max. with HKDILM)	81.5	(106.5)	92.5	(117.5)	92.5	(117.5)	118	121

for DIL	HKDILM			
	1(A)M	(-G)	2(A)M	(-G)
a	60	(60)	70	(70)
b	98	(98)	118	(118)
b4	104.5	(104.5)	123	(123)
b5	52.3	(52.3)	61.5	(61.5)
c	97	(122)	102	(127)
c2	73.5	(98.5)	74.2	(99.2)
c4	107.4	(132.4)	107.7	(132.7)

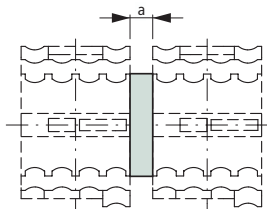


Mechanical interlock

MVDILE

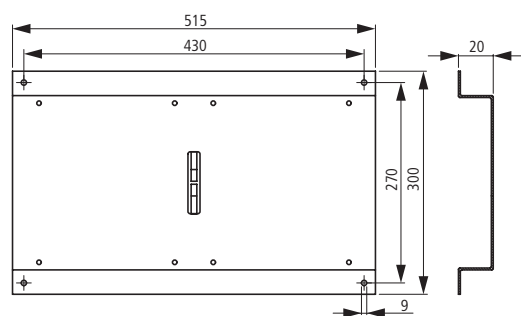


MVDILM
DILM500-XMV

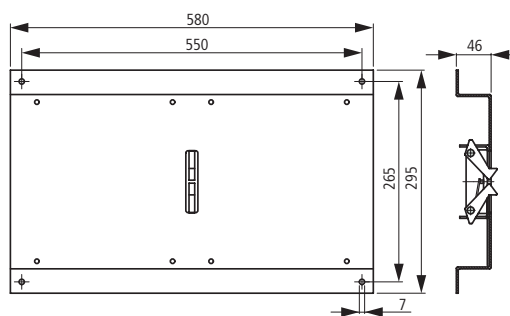


	DIL... 00M(-G) to 2AM(-G)	3M80 to 4AM145	DILM185 to DILM500
a	15	10	15

DILM820-XMV

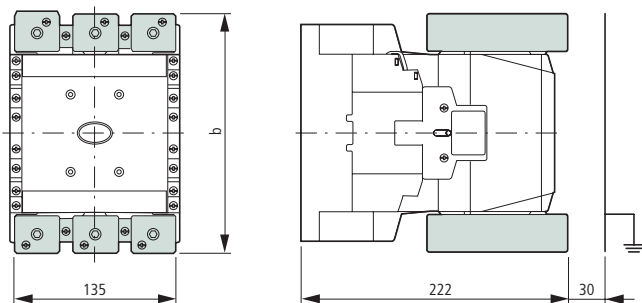


DILP800-XMV



Cable terminal block

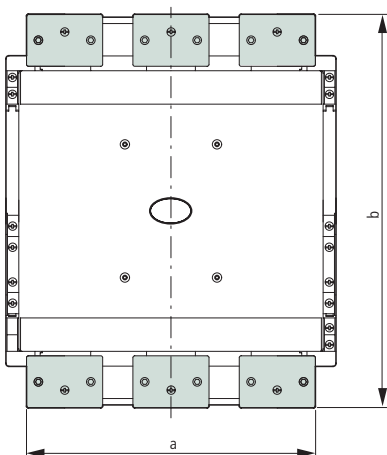
DILM...-XKU-S



for DILM	185 – 225	250	300 – 400
b	198	198	218

Flat strip conductor terminals

DILM...-XKB-S



for DILM	500	580-650	750-820
a	171	218	231
b	232	295	310