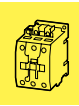
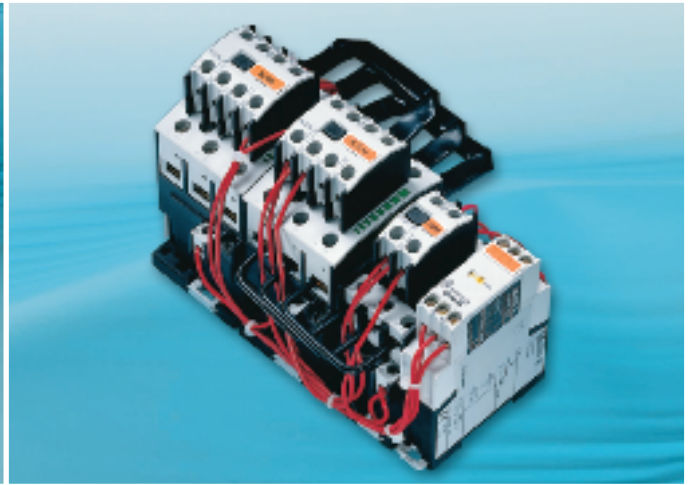


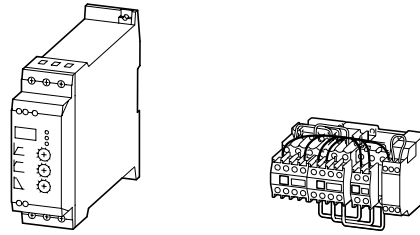
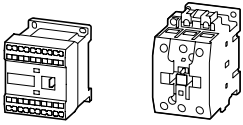
# Contactors

Contactors








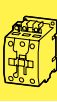
**Contents**  
Contactors

**Contactors**




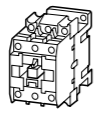
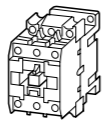
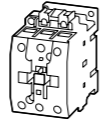
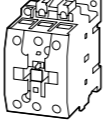
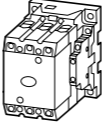
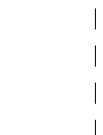
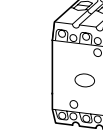

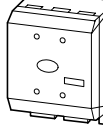

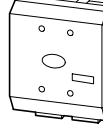
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Technical overview  
DIL contactors

DILM contactors  
3-pole

												
Basic units	Page	6/9	6/9	6/13	6/13	6/13	6/13	6/13	6/13	6/13	6/13	6/13
Complete units	Page	-	-	6/17	6/17	6/17	6/17	6/17	6/17	6/17	6/17	6/17
Rated operational voltage		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW

**AC-3**  
Max. three-phase motor rating  
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
<b>380 V – 400 V</b>	<b>3</b>	<b>4</b>	<b>4</b>	<b>5.5</b>	<b>7.5</b>	<b>11</b>	<b>15</b>	<b>18.5</b>	<b>22</b>	<b>30</b>	<b>37</b>	<b>45</b>
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**  
Max. three-phase motor rating  
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
<b>380 V – 400 V</b>	<b>2.2</b>	<b>3</b>	<b>3</b>	<b>4</b>	<b>5.5</b>	<b>7.5</b>	<b>11</b>	<b>15</b>	<b>18.5</b>	<b>22</b>	<b>30</b>	<b>37</b>
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

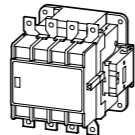
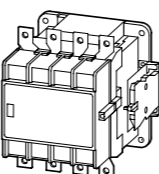
**AC-1**  
Max. three-phase motor rating  
with resistive load

220 V – 230 V	7	7	7	7	12.5	12.5	20	20	32	32	35	35
<b>380 V – 400 V</b>	<b>13</b>	<b>13</b>	<b>13</b>	<b>13</b>	<b>22</b>	<b>22</b>	<b>35</b>	<b>35</b>	<b>56</b>	<b>56</b>	<b>62</b>	<b>62</b>
440 V	15	15	15	15	25	25	40	40	65	65	72	72
500 V	16	16	16	16	29	29	45	45	74	74	82	82
660 V – 690 V	20	20	20	20	35	35	60	60	95	95	108	108
1000 V	-	-	-	-	-	-	-	-	-	-	82	82

Conventional free air thermal current  $I_{th} = I_e$  open

	A	A	A	A	A	A	A	A	A	A	A	A
Up to 690 V	20	20	20	20	35	35	55	55	90	90	100	100
1000 V	-	-	-	-	-	-	-	-	-	-	100	100

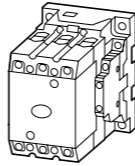
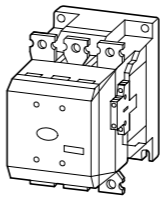
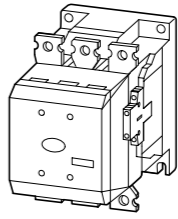
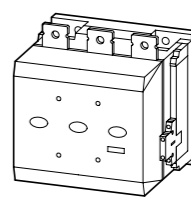
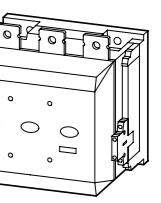
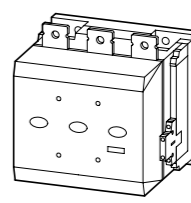
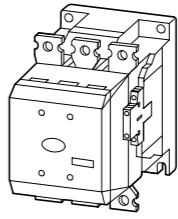
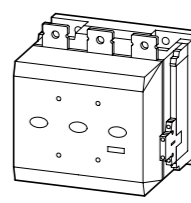
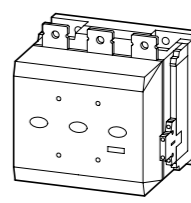
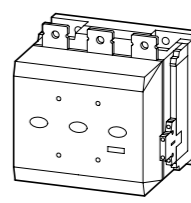
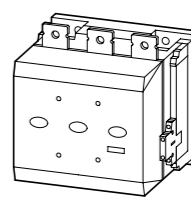
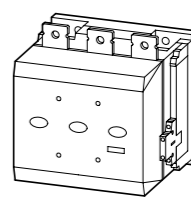
DILP contactors  
4-pole

			
DIL	P160	P250	P315
Rated operational voltage			

**AC-1**  
Rated operational current  $\Delta$   
Conventional free air thermal current  $I_{th} = I_e$  open

	A	A	A
Up to 690 V	160	250	315
1000 V	160	250	315

Technical overview  
DIL contactors

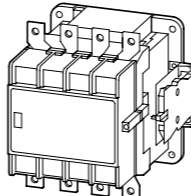
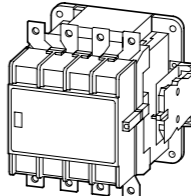
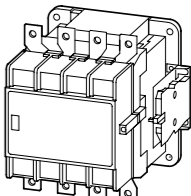
											
4M115	4AM145	M185	M225	M250	M300	M400	M500	M580	M650	M750	M820
6/13	6/13	-	-	-	-	-	-	-	-	-	-
6/17	6/17	6/19	6/19	6/19	6/19	6/19	6/19	6/19	6/19	6/19	6/19
kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW

37	45	55	70	75	90	125	155	185	205	240	260
<b>55</b>	<b>75</b>	<b>90</b>	<b>110</b>	<b>132</b>	<b>160</b>	<b>200</b>	<b>250</b>	<b>315</b>	<b>355</b>	<b>400</b>	<b>450</b>
64	88	115	142	157	190	255	345	370	420	480	525
75	90	132	160	180	215	290	360	420	470	550	600
90	110	175	215	240	286	344	344	560	630	720	750
55	65	108	108	108	132	132	132	600	600	800	800

26	30	41	51	62	75	92	112	143	161	181	209
<b>45</b>	<b>55</b>	<b>75</b>	<b>90</b>	<b>110</b>	<b>132</b>	<b>160</b>	<b>200</b>	<b>250</b>	<b>280</b>	<b>315</b>	<b>355</b>
52	65	85	102	125	140	186	229	290	326	367	418
55	75	96	116	143	172	214	260	330	370	417	474
55	75	127	155	189	229	283	344	440	494	556	633
45	55	108	108	108	132	132	132	509	509	678	678

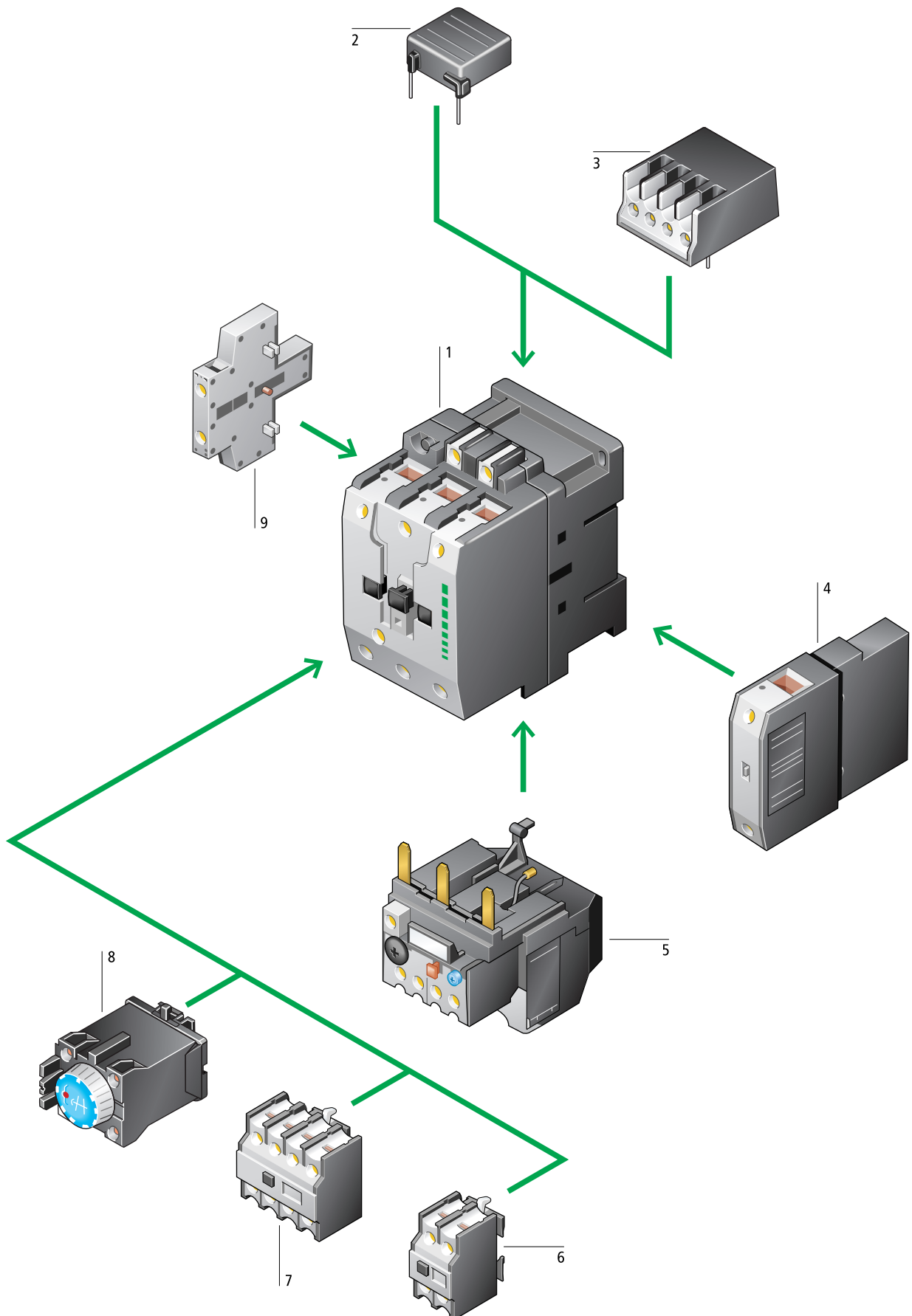
58	58	81	90	108	126	162	199	228	253	289	307
<b>100</b>	<b>100</b>	<b>140</b>	<b>156</b>	<b>187</b>	<b>218</b>	<b>281</b>	<b>343</b>	<b>393</b>	<b>437</b>	<b>500</b>	<b>531</b>
116	116	161	180	215	250	323	394	452	502	575	610
132	132	183	204	245	285	368	449	514	572	655	695
174	174	244	271	325	380	488	597	684	760	868	923
132	132	370	411	493	575	740	904	1036	1151	1316	1398

A	A	A	A	A	A	A	A	A	A	A	A
160	160	275	315	350	400	500	700	630	700	800	850
160	160	275	315	350	400	500	700	630	700	800	850

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

# System overview

## Contactors



## System overview

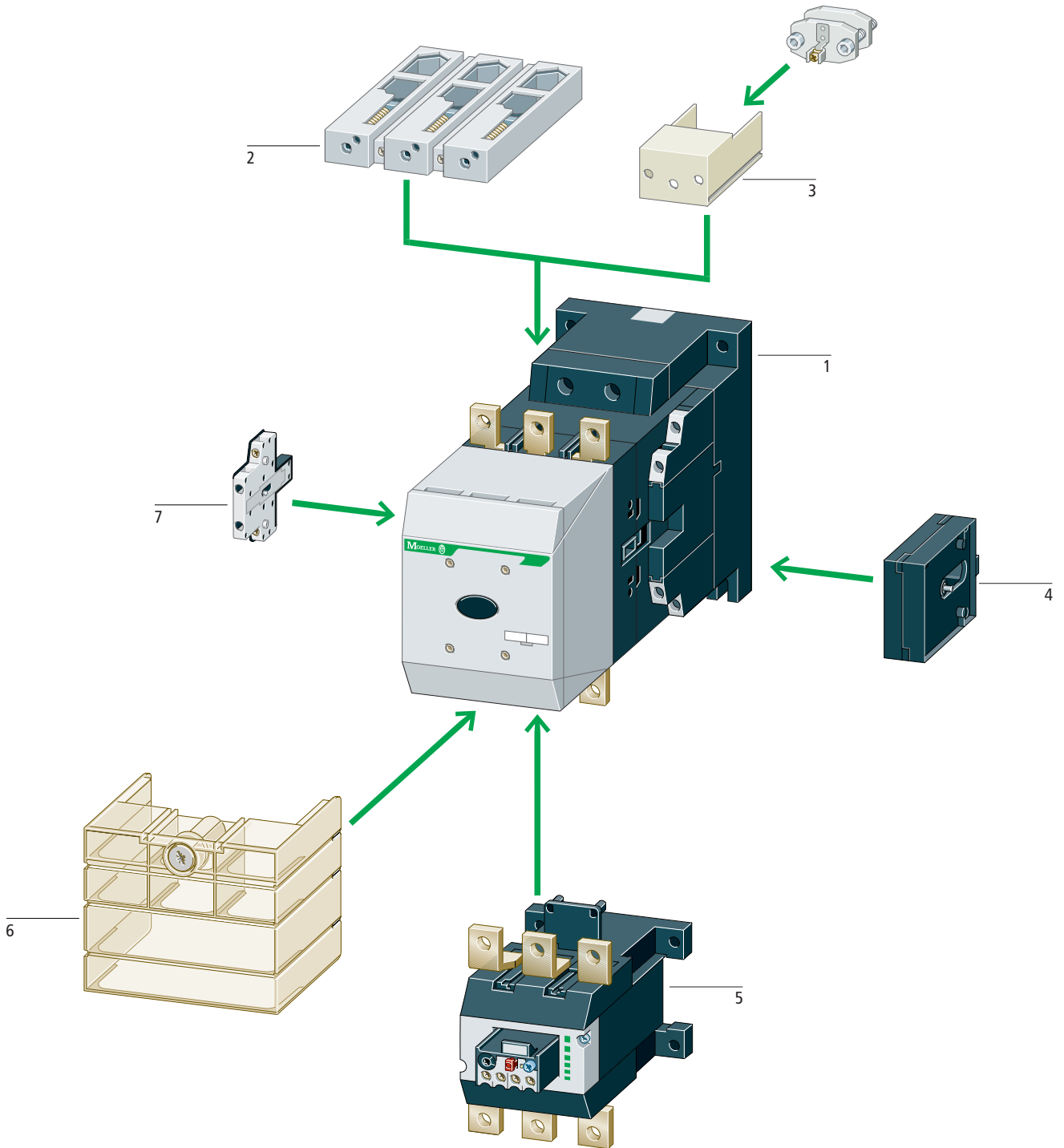
### Contactors

<b>Contactors up to 75 kW (AC-3/400 V)</b> 1 Magnet systems: AC: 12 – 600 V, 50, 60, 50/60 Hz $0.8 - 1.1 \times U_c$ DC: 12 – 250 V $0.85 - 1.1 \times U_c$ Coils for non-standard voltages "Safe isolation" to IEC 536 between coil and contacts  → Page 6/12	<b>4th pole</b> 4 Contact for AC-1 load can be fitted to contactors up to DIL2AM  → Page 6/36	<b>Auxiliary contact modules</b> 7 4-pole, plug-in type Overlapping contacts  → Page 6/20
<b>Suppressors</b> 2 RC suppressors Varistor suppressors Free-wheel diode suppressor  → Page 6/32	<b>Overload relays</b> 5 For direct fitting For separate mounting Protection of EEx e motors PTB certificate  → Page 7/4	<b>Pneumatic timer modules</b> 8 On- and Off-delayed, plug-in type With or without TÜV approval (TÜV = German Technical Supervisory Association)  → Page 6/36
<b>Amplifier modules</b> 3 Plug-in type With and without integrated suppressor circuit Suppressors Separate mounting  → Page 6/37	<b>Auxiliary contact modules</b> 6 2-pole, plug-in type  → Page 6/20	<b>Auxiliary contact modules</b> 9 For side mounting 1 or 2-pole  → Page 6/20



# System overview

## Contactors



## System overview

### Contactors

<hr/> <b>Contactors for 90 – 450 kW (AC-3/400 V)</b> 1 <hr/> Multivoltage coils: 24 – 48 V DC 48 – 110 V AC/DC 110 – 250 V AC/DC 250 – 500 V AC $0.7 - 1.15 \times U_c$ <hr/> Actuating options: <ul style="list-style-type: none"> <li>• Directly</li> <li>• From the PLC</li> <li>• Via a low-consumption contact</li> </ul> Minimised pick-up and sealing power <hr/> → Page 6/18 <hr/>	<hr/> <b>Flat strip conductor terminals</b> 3 <hr/> 1 or 2 strips per phase Control circuit terminal Cover for finger proofing <hr/> → Page 6/35 <hr/>	<hr/> <b>Terminal cover</b> 6 <hr/> Finger-proof <hr/> → Page 6/35 <hr/>
<hr/> <b>Cable terminal block</b> 2 <hr/> 1 or 2 conductors per phase Round and flat conductor, connectable Finger-proof <hr/> → Page 6/35 <hr/>	<hr/> <b>Mechanical interlock</b> 4 <hr/> → Page 6/34 <hr/>	<hr/> <b>Auxiliary contact modules</b> 7 <hr/> 2-pole for side mounting <hr/> → Page 6/20 <hr/>
	<hr/> <b>Overload relays</b> 5 <hr/> For direct fitting For separate mounting Protection of EEx e motors PTB certificate <hr/> → Page 7/6 <hr/>	

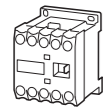


**DILEM mini contactor relays**  
3-pole, 4-pole basic units

Rated operational current	Max. rating for three-phase motors, 50 – 60 Hz						Conventional thermal current $I_{th} = I_e$ AC-1		Auxiliary contacts		Circuit symbol
	AC-3		AC-4				Open	Enclosed	M = Make	B = Break	
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	$I_{th} = I_e$	$I_{th} = I_e$			
$I_e$ A	P kW	P kW	P kW	P kW	P kW	P kW	A	A			

**Basic units**

3-pole, with auxiliary contacts

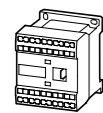


Terminal type	Rated current	Max. motor rating	Thermal current	Thermal current	Thermal current	Thermal current	Thermal current	Thermal current	Thermal current	Auxiliary contacts	Circuit symbol
Screw terminals	6.6	1.5	3	3	1.1	2.2	2.2	20	16	1 M	
	6.6	1.5	3	3	1.1	2.2	2.2	20	16	1 B	
	8.8	2.2	4	4	1.5	3	3	20	16	1 M	
	8.8	2.2	4	4	1.5	3	3	20	16	1 B	

4-pole

Terminal type	Rated current	Max. motor rating	Thermal current	Thermal current	Thermal current	Thermal current	Thermal current	Thermal current	Thermal current	Auxiliary contacts	Circuit symbol
Screw terminals	8.8	2.2	4	4	1.5	3	3	20	16	–	

3-pole, with auxiliary contacts



Terminal type	Rated current	Max. motor rating	Thermal current	Thermal current	Thermal current	Thermal current	Thermal current	Thermal current	Thermal current	Auxiliary contacts	Circuit symbol
Spring-loaded terminals	6.6	1.5	3	3	1.1	2.2	2.2	20	16	1 M	
	6.6	1.5	3	3	1.1	2.2	2.2	20	16	1 B	
	8.8	2.2	4	4	1.5	3	3	20	16	1 M	
	8.8	2.2	4	4	1.5	3	3	20	16	1 B	



**DILEM mini contactor relays**  
3-pole, 4-pole basic units

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		
...	DILEEM-10(230V50HZ) 051608		DILEEM-10-G(24VDC) 051643		5 off	DC operation: integral diode/resistor combination, Coil rating 2.6 W  <b>With screw terminals:</b>   <b>Accessories</b>   <b>Page</b> 1 Overload relay   7/4 2 Suppressor   6/32 3 Auxiliary contact modules   6/10 Enclosure <small>(totally insulated)</small>   Electr. Catalogue  Other actuating voltages   6/41 Accessories   6/32  <b>With spring-loaded terminal:</b>   <b>Accessories</b>   <b>Page</b> 1 Suppressor   6/32 2 Auxiliary contact modules   6/10 Enclosure <small>(totally insulated)</small>   Electr. Catalogue  Other actuating voltages   6/41 Accessories   6/32  Mini contactors with interlocked opposing contacts Contactor contacts to EN 50012
...	DILEEM-01(230V50HZ) 051633		DILEEM-01-G(24VDC) 051650			
...	DILEM-10(230V50HZ) 051786		DILEM-10-G(24VDC) 010213			
...	DILEM-01(230V50HZ) 051795		DILEM-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			
...	DILEM-10-C(230V50HZ) 230164		DILEM-10-G-C(24VDC) 230165			
...	DILEM-01-C(230V50HZ) 230166		DILEM-01-G-C(24VDC) 230167			



**DILEM mini contactor relays**  
3-pole, 4-pole basic units

Conventional thermal current  
 $I_{th} = I_e$  AC-1  
open

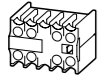
Auxiliary contacts  
M = Make B = Break

Circuit symbol

Can be combined with contactor

$I_{th} = I_e$   
A

**Auxiliary contact modules**



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		DILE(E)M-10(-G)(...) DILE(E)M-01(-G)(...) DILEM-4(-G)(...)
2-pole		–	2 B		
		1 M	1 B		DILE(E)M-10(-G)(...) DILE(E)M-01(-G)(...) DILEM-4(-G)(...)
		2 M	–		
		1 M	1 B		DILE(E)M-10(-G)(...) DILE(E)M-01(-G)(...) DILEM-4(-G)(...)
4-pole		–	4 B		
		1 M	3 B		DILE(E)M-10(-G)(...) DILE(E)M-01(-G)(...) DILEM-4(-G)(...)
		2 M	2 B		
		3 M	1 B		DILE(E)M-10(-G)(...) DILE(E)M-01(-G)(...) DILEM-4(-G)(...)
		4 M	–		
		2 M	2 B		DILE(E)M-10(-G)(...) DILE(E)M-01(-G)(...) DILEM-4(-G)(...)



Spring-loaded 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-pole		–	4 B		
		1 M	3 B		DILE(E)M-10-C(-G)(...) DILE(E)M-01-C(-G)(...)
		2 M	2 B		
		3 M	1 B		DILE(E)M-10-C(-G)(...) DILE(E)M-01-C(-G)(...)
		4 M	–		
		2 M	2 B		DILE(E)M-10-C(-G)(...) DILE(E)M-01-C(-G)(...)

**DILEM mini contactor relays**  
3-pole, 4-pole basic units

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		–	
22DILEM 010112		–	Auxiliary contact modules with interlocked opposing contacts. Not in the case of early-make or late-break contacts
02DILE 010240		–	Interlocked opposing contacts
11DILE 010224		–	–
20DILE 010208		–	–
11DDILE 049824		–	1 early-make contact, 1 late-break contact
04DILE 010256		–	Interlocked opposing contacts
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		–	Interlocked opposing contacts
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



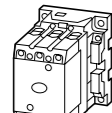
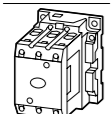
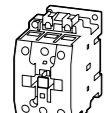
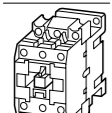
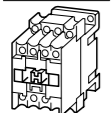
**DIL contactors**  
3-pole, 4-pole basic units

Contactors

Rated operational current	Max. rating for three-phase motors, 50 – 60 Hz								Conventional thermal current $I_{th} = I_e$ AC-1		Circuit symbol
	AC-3				AC-4				Open	Enclosed	
380 V 400 V $I_e$ A	220 V 230 V P kW	380 V 400 V P kW	660 V 690 V P kW	1000V P kW	220 V 230 V P kW	380 V 400 V P kW	660 V 690 V P kW	1000V P kW	$I_{th} = I_e$	$I_{th} = I_e$	

**Basic units**

4-pole	Screw terminals	8.8	2.2	4	5.5	–	1.5	3	4	–	20	16	
3-pole		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	
		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	
		12	3	5.5	7.5	–	2.2	4	5.5	–	20	16	
		15.5	4	7.5	7.5	–	2.2	4	5.5	–	20	16	
		15.5	4	7.5	7.5	–	2.2	4	5.5	–	20	16	
		15.5	4	7.5	7.5	–	2.2	4	5.5	–	20	16	
		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	
		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	100	90	
		85	25	45	75	45	22	37	45	37	100	90	
		104	37	55	90	55	26	45	55	45	160	140	
		142	45	75	110	65	30	55	75	55	160	140	



**Notes**  
Motor rating AC-3, AC-4; 660/690 V and 1000 V: Do not reverse directly  
The contactors DIL3M80 to DIL4AM145 can be snap-fitted onto a 75 mm top-hat rail to EN 50023.  
DC operated contactors have an integrated suppressor (varistor).  
Do not reverse directly for 660 V, 690 V and 1000 V.

**DIL contactors**  
3-pole, 4-pole basic units

Contactors

Can be combined with auxiliary contact module	AC operation Type Article no.	Price See Price List	DC operation Type Article no.	Price See Price List	Std. pack	Notes																					
	...DILM ...DIL		DIL00M4(230V50HZ) 046929	DIL00M4-G(24VDC) 063171	1 off	<p><b>Accessories</b></p> <table border="1"> <tr><td>1</td><td>Overload relay</td><td>7/4</td></tr> <tr><td>2</td><td>Amplifier modules or suppressor circuit</td><td>6/37, 32</td></tr> <tr><td>3</td><td>Pneumatic timer modules</td><td>6/36</td></tr> <tr><td>4</td><td>Mechanical latching modules</td><td>6/36</td></tr> <tr><td>5</td><td>Additional 4th pole from DIL0M(-G)</td><td>6/36</td></tr> <tr><td>6</td><td>Top mounting auxiliary contact</td><td>6/20</td></tr> <tr><td>7</td><td>Side mounting auxiliary contact</td><td>6/21</td></tr> </table> <p>Enclosure <span style="border: 1px solid black; padding: 1px;">totally insulated</span> Electr. Catalogue</p> <p>Accessories 6/32 Other actuating voltages 6/41</p>	1	Overload relay	7/4	2	Amplifier modules or suppressor circuit	6/37, 32	3	Pneumatic timer modules	6/36	4	Mechanical latching modules	6/36	5	Additional 4th pole from DIL0M(-G)	6/36	6	Top mounting auxiliary contact	6/20	7	Side mounting auxiliary contact	6/21
1	Overload relay	7/4																									
2	Amplifier modules or suppressor circuit	6/37, 32																									
3	Pneumatic timer modules	6/36																									
4	Mechanical latching modules	6/36																									
5	Additional 4th pole from DIL0M(-G)	6/36																									
6	Top mounting auxiliary contact	6/20																									
7	Side mounting auxiliary contact	6/21																									
	...DILM ...DIL		DIL00M(230V50HZ) 061217	DIL00M-G(24VDC) 048587																							
	...DIL		DIL00M-10(230V50HZ) 046646	DIL00M-G-10(24VDC) 048670																							
	...DIL		DIL00M-01(230V50HZ) 046654	DIL00M-G-01(24VDC) 048665																							
	...DILM ...DIL		DIL00AM(230V50HZ) 061224	DIL00AM-G(24VDC) 048567																							
	...DIL		DIL00AM-10(230V50HZ) 046678	DIL00AM-G-10(24VDC) 048650																							
	...DIL		DIL00AM-01(230V50HZ) 046686	DIL00AM-G-01(24VDC) 048645																							
	...DILM ...DIL		DIL00BM(230V50HZ) 061233	DIL00BM-G(24VDC) 048572																							
	...DIL		DIL00BM-10(230V50HZ) 061241	DIL00BM-G-10(24VDC) 048582																							
	...DIL		DIL00BM-01(230V50HZ) 061249	DIL00BM-G-01(24VDC) 048577																							
DILM820- XHI...-SI	...DILM		DIL0M(230V50HZ) 061257	DIL0M-G(24VDC) 048597																							
...DIL	...DIL		DIL0AM(230V50HZ) 061265	DIL0AM-G(24VDC) 048592																							
...SDILM			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																							
DILM820- XHI...			DIL3M80(230V50HZ) 209694	DIL3M80(24VDC) 209709																							
			DIL3AM85(230V50HZ) 209726	DIL3AM85(24VDC) 209737																							
			DIL4M115(230V50HZ) 209753	DIL4M115(24VDC) 209765																							
			DIL4AM145(230V50HZ) 209781	DIL4AM145(24VDC) 209792																							

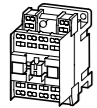
Accessories	Page	
1	Overload relay	7/4
2	Amplifier modules or suppressor circuit	6/37, 32
3	Side mounting auxiliary contacts	6/21
Other actuating voltages		6/41



**DIL contactors**  
3-pole, 4-pole basic units

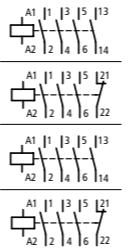
Rated operational current AC-3	Max. rating for three-phase motors, 50 – 60 Hz						conventional thermal current $I_{th} = I_e$ AC-1		Circuit symbol	Can be combined with auxiliary contact module
	AC-3		AC-4				Open	Enclosed		
380 V 400 V	220 V 230 V	380 V 400 V	660 V 690 V	220 V 230 V	380 V 400 V	660 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<sup>1)</sup>

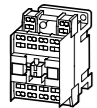


Spring-loaded terminals

	8.8	2.2	4	5.5	1.5	3	4	20	16	
8.8	2.2	4	5.5	1.5	3	4				...DILM-C ...DIL-C
12	3	5.5	7.5	2.2	4	5.5				
12	3	5.5	7.5	2.2	4	5.5				

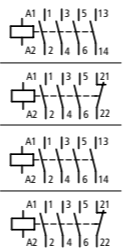


Basic units with integrated suppressor<sup>1)</sup>



Spring-loaded terminals

	8.8	2.2	4	5.5	1.5	3	4	20	16	
8.8	2.2	4	5.5	1.5	3	4				...DILM-C ...DIL-C
12	3	5.5	7.5	2.2	4	5.5				
12	3	5.5	7.5	2.2	4	5.5				



Notes

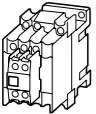
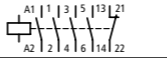
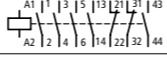
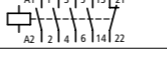
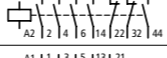
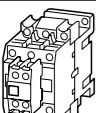
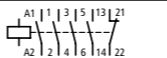
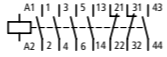
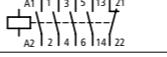
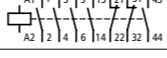
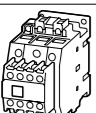
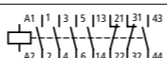
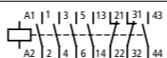
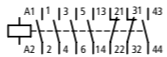
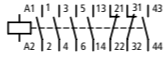
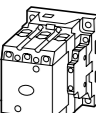
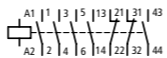
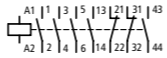
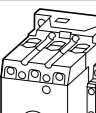

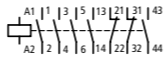
<sup>1)</sup> Contact markings are duplicated where a top mounting auxiliary contact ...DILM-C is used. Do not reverse directly for 660 V and 690 V.

**DIL contactors**  
3-pole, 4-pole basic units

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> <table border="1"> <thead> <tr> <th></th> <th>Page</th> </tr> </thead> <tbody> <tr> <td>1 Top mounting auxiliary contact</td> <td>6/20</td> </tr> <tr> <td>Pneumatic timer modules</td> <td>6/36</td> </tr> <tr> <td>Mechanical latching modules</td> <td>6/36</td> </tr> <tr> <td>Enclosure <span style="border: 1px solid black; padding: 1px;">totally insulated</span></td> <td>Electr. Catalogue</td> </tr> <tr> <td>Other actuating voltages</td> <td>6/41</td> </tr> </tbody> </table>		Page	1 Top mounting auxiliary contact	6/20	Pneumatic timer modules	6/36	Mechanical latching modules	6/36	Enclosure <span style="border: 1px solid black; padding: 1px;">totally insulated</span>	Electr. Catalogue	Other actuating voltages	6/41
	Page																	
1 Top mounting auxiliary contact	6/20																	
Pneumatic timer modules	6/36																	
Mechanical latching modules	6/36																	
Enclosure <span style="border: 1px solid black; padding: 1px;">totally insulated</span>	Electr. Catalogue																	
Other actuating voltages	6/41																	
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> <table border="1"> <thead> <tr> <th></th> <th>Page</th> </tr> </thead> <tbody> <tr> <td>1 Top mounting auxiliary contact</td> <td>6/20</td> </tr> <tr> <td>Pneumatic timer modules</td> <td>6/36</td> </tr> <tr> <td>Mechanical latching modules</td> <td>6/36</td> </tr> <tr> <td>Enclosure <span style="border: 1px solid black; padding: 1px;">totally insulated</span></td> <td>Electr. Catalogue</td> </tr> <tr> <td>Other actuating voltages</td> <td>6/41</td> </tr> </tbody> </table>		Page	1 Top mounting auxiliary contact	6/20	Pneumatic timer modules	6/36	Mechanical latching modules	6/36	Enclosure <span style="border: 1px solid black; padding: 1px;">totally insulated</span>	Electr. Catalogue	Other actuating voltages	6/41
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Enclosure <span style="border: 1px solid black; padding: 1px;">totally insulated</span>	Electr. Catalogue																	
Other actuating voltages	6/41																	
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															



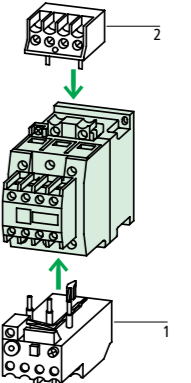
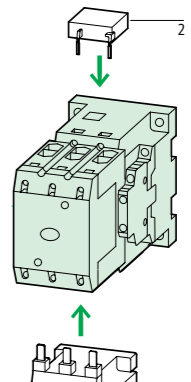
**DIL contactors**  
Complete units

	Rated operational current AC-3	Max. rating for three-phase motors, 50 – 60 Hz								Conventional thermal current $I_{th} = I_e$ AC-1		Circuit symbol
		AC-3				AC-4				Open	Enclosed	
		220 V 400 V $I_e$ A	380 V 400 V $P$ kW	660 V 690 V $P$ kW	1000V $P$ kW	220 V 230 V $P$ kW	380 V 400 V $P$ kW	660 V 690 V $P$ kW	1000V $P$ kW	$I_{th} = I_e$ A	$I_{th} = I_e$ A	
<b>DIL contactors<sup>1)</sup></b>												
	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	100	90	
	85	25	45	75	45	22	37	45	46	100	90	
	104	37	55	90	55	26	45	55	56	160	140	
	142	45	75	110	65	32	55	77	56	160	140	

**Notes**

- <sup>1)</sup> Do not reverse directly for 660 V and 690 V.
- <sup>2)</sup> Can be snap fitted onto 75 mm mounting 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.

**DIL contactors**  
Complete units

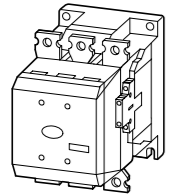
Can be combined with auxiliary contact module	AC operation		DC operation		Std. pack	Notes														
	Type Article no.	Price See Price List	Type Article no.	Price See Price List																
	DIL00M/11(230V50HZ) 046662		DIL00M-G/11(24VDC) 048675		1 off	 <table border="1"> <thead> <tr> <th>Accessories</th> <th>Page</th> </tr> </thead> <tbody> <tr> <td>1 Overload relay</td> <td>7/4</td> </tr> <tr> <td>2 Amplifier module or suppressor</td> <td>6/37, 32</td> </tr> <tr> <td>Enclosure <span style="border: 1px solid black; padding: 1px;">totally insulated</span></td> <td>Electr. Catalogue</td> </tr> <tr> <td>Accessories</td> <td>6/32</td> </tr> <tr> <td>Other actuating voltages</td> <td>6/41</td> </tr> </tbody> </table>	Accessories	Page	1 Overload relay	7/4	2 Amplifier module or suppressor	6/37, 32	Enclosure <span style="border: 1px solid black; padding: 1px;">totally insulated</span>	Electr. Catalogue	Accessories	6/32	Other actuating voltages	6/41		
Accessories	Page																			
1 Overload relay	7/4																			
2 Amplifier module or suppressor	6/37, 32																			
Enclosure <span style="border: 1px solid black; padding: 1px;">totally insulated</span>	Electr. Catalogue																			
Accessories	6/32																			
Other actuating voltages	6/41																			
	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	 <table border="1"> <thead> <tr> <th>Accessories</th> <th>Page</th> </tr> </thead> <tbody> <tr> <td>1 Overload relay</td> <td>7/4</td> </tr> <tr> <td>2 Suppressor</td> <td>6/32</td> </tr> <tr> <td>Auxiliary contacts</td> <td>6/10</td> </tr> <tr> <td>Enclosure <span style="border: 1px solid black; padding: 1px;">totally insulated</span></td> <td>Electr. Catalogue</td> </tr> <tr> <td>Accessories</td> <td>6/32</td> </tr> <tr> <td>Other actuating voltages</td> <td>6/41</td> </tr> </tbody> </table>	Accessories	Page	1 Overload relay	7/4	2 Suppressor	6/32	Auxiliary contacts	6/10	Enclosure <span style="border: 1px solid black; padding: 1px;">totally insulated</span>	Electr. Catalogue	Accessories	6/32	Other actuating voltages	6/41
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Accessories	6/32																			
Other actuating voltages	6/41																			
	DIL3AM85/22(230V50HZ) 209896		DIL3AM85/22(24VDC) 209907																	
	DIL4M115/22(230V50HZ) 209923		DIL4M115/22(24VDC) 209934																	
	DIL4AM145/22(230V50HZ) 209950		DIL4AM145/22(24VDC) 209961																	



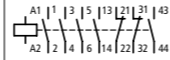
**DIL contactors**  
Complete units

Rated operational current	Max. rating for three-phase motors, 50 – 60 Hz								Conventional thermal current $I_{th} = I_e$ AC-1 Open	Circuit symbol
	AC-3				AC-4					
380 V 400 V	220 V 230 V	380 V 400 V	660 V 690 V	1000V	220 V 230 V	380 V 400 V	660 V 690 V	1000V		
$I_e$	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	$I_{th} = I_e$	
A	kW	kW	kW	kW	kW	kW	kW	kW	A	

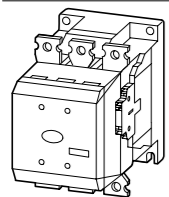
**DIL contactors**



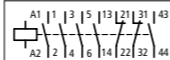
185	55	90	175	108	41	75	127	108	275
225	70	110	215	108	51	90	155	108	315
250	75	132	240	108	62	110	189	108	350
300	90	160	286	132	75	132	229	132	400
400	125	200	344	132	92	160	283	132	500
500	155	250	344	132	112	200	344	132	700
580	185	315	560	600	143	250	440	509	630
650	205	355	630	600	161	280	494	509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



**Control circuit terminals with spring-loaded terminals**



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	108	400
400	125	200	344	132	92	160	283	132	500
500	155	250	344	132	112	200	344	132	700



**Notes**

Motor rating AC-4, 660/690 V and 1000 V:  
Do not reverse directly  
All contactors have an integrated suppressor.  
When operating DILM580 to DILM820 contactors with frequency inverters, the suppressor on the load side must be removed.  
The suppressor on the load side of contactors DILM580 to DILM820 must be disconnected when carrying out high-voltage tests.

Control voltages:  
RA250  $\Delta$  110 V – 250 V AC/DC

Accessories	Page
Auxiliary contact modules	6/10
Enclosure <span style="border: 1px solid black; padding: 1px;">Totally insulated</span>	Electr. Catalogue
Accessories	6/32
Other actuating voltages	6/41

**DIL contactors**  
Complete units

Can be combined with auxiliary contact module	Type Article no.	Price See Price List	Std. pack
---	------------------	----------------------	-----------

DILM820-XHI...	DILM185/22(RA250) 208193		1 off
	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		
DILM820-XHI-C...	DILMC185/22(RA250) 217963		1 off
	DILMC225/22(RA250) 217966		
	DILMC250/22(RA250) 217969		
	DILMC300/22(RA250) 217972		
	DILMC400/22(RA250) 217975		
	DILMC500/22(RA250) 217978		

**Conventional**  
A1/A2 are applied to voltage in the usual manner.







































**Direct from the PLC**  
A 24 V output from the PLC can be connected directly to connections A3/A4.

**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.

① Stop in an emergency (Emergency-Stop)  
② Maximum cable capacity 6 nF

## DIL contactors

### Auxiliary contact modules

		Conventional thermal current $I_{th} = I_e$ AC-1	Auxiliary contacts		Circuit symbol	Can be combined with basic unit	Type Article no.	Price See Price List	Std. pack			
		Open	M = Make	B = Break								
		$I_{th} = I_e$ A										
<b>Auxiliary contact modules</b>												
Top mounting auxiliary contacts <sup>1)</sup>												
	Screw terminals	2-pole	16	1 M	1 B		DIL00(A)M, DIL00BM, DIL0(A)M, DIL1(A)M, DIL2(A)M, DIL00M4	<b>11DILM</b> 017507		5 off		
		4-pole	16	2 M	2 B			<b>22DILM</b> 019880				
		4-pole	16	3 M	1 B			<b>31DILM</b> 022253				
		4-pole	16	2 M	2 B			<b>22DDILM</b> <sup>2)</sup> 026999				
		2-pole	16	–	2 B			<b>02DIL</b> 098145				
		2-pole	16	1 M	1 B			<b>11DIL</b> 010345				
		2-pole	16	2 M	–			<b>20DIL</b> 012718				
		4-pole	16	–	4 B			<b>04DIL</b> 015091				
		4-pole	16	1 M	3 B			<b>13DIL</b> 017464				
		4-pole	16	2 M	2 B			<b>22DIL</b> 019837				
		4-pole	16	3 M	1 B			<b>31DIL</b> 010752				
		4-pole	16	4 M	–			<b>40DIL</b> 022210				
		Spring-loaded terminals	4-pole	16	2 M	2 B			DIL00M-...-C DIL00AM-...-C		<b>22DILM-C</b> 230271	
			4-pole	16	3 M	1 B					<b>31DILM-C</b> 230275	
	4-pole		16	2 M	2 B		<b>22DDILM-C</b> <sup>2)</sup> 230280					
	4-pole		16	–	4 B		<b>04DIL-C</b> 230282					
	4-pole		16	1 M	3 B		<b>13DIL-C</b> 230284					
	4-pole		16	2 M	2 B		<b>22DIL-C</b> 230286					
	4-pole		16	3 M	1 B		<b>31DIL-C</b> 230289					
	4-pole		16	4 M	–		<b>40DIL-C</b> 230290					

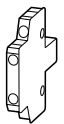






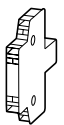


**Notes**

<sup>1)</sup> Can be combined with auxiliary contacts for side mounting up to a maximum of 5 contacts.

<sup>2)</sup> 1 early-make contact, 1 late-break contact

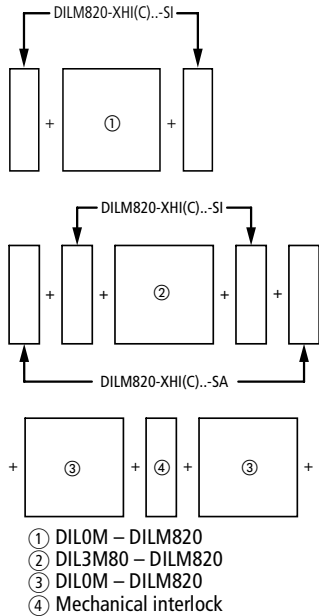
# DIL contactors

## Auxiliary contact modules

		Conventional thermal current $I_{th} = I_e$ AC-1	Auxiliary contacts		Circuit symbol	Can be combined with basic unit	Type Article no.	Price See Price List	Std. pack	
		Open	M = Make	B = Break						
		$I_{th} = I_e$ A								
<b>Auxiliary contact modules</b>										
<b>Side mounting auxiliary contacts</b>										
	Screw terminals	16	1 M	—		DIL0(A)M DIL1(A)M DIL2(A)M	10SDILM <sup>1)</sup> 089080		5 off	
		16	—	1 B			01SDILM <sup>1)</sup> 001930			
		16	1 M	1 B			11SDILM <sup>1)</sup> 024626			
			10	1 M	1 B		DIL0M – DILM820	DILM820-XHI11-SI <sup>2)</sup> 208281		1 off
			10	1 M	1 B		DIL0M – DILM820	DILM820-XHI11-SA <sup>2)</sup> 208282		
			10	1 M	1 B		DIL0M – DILM820	DILM820-XHI11V-SI <sup>2)</sup> 208283		
	Spring-loaded terminals	10	1 M	1 B		DIL0M – DILM820	DILM820-XHIC11-SI <sup>2)</sup> 229513			
		10	1 M	1 B		DIL0M – DILM820	DILM820-XHIC11-SA <sup>2)</sup> 229512			

**Notes**

- <sup>1)</sup> Cannot be combined with DILM820-XHI... auxiliary contact module.  
Can be combined with auxiliary contacts for top mounting up to a maximum of 5 contacts.  
Maximum of one side-mounting auxiliary contact module on either side.  
No auxiliary contacts can be fitted between the mechanical interlock and the contactor.
- <sup>2)</sup> **Auxiliary contact module fitting options**



Max. 8 auxiliary contacts possible for:

- DIL3M80 to DILM820 contactors

Max. 5 auxiliary contacts possible for:

- Contactors DIL0M to DIL2AM

2 DILM820-XHI11-SI or DILM820-XHIC11-SI auxiliary contacts are already fitted on:

- DIL3M80/22 to DILM820/22 contactors
- DILMC185/22 to DILMC500/22 contactors

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

Cannot be combined with ..SDILM auxiliary contact module.

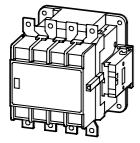
Cannot be combined with DIL0(A)M-G.



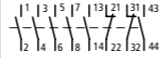
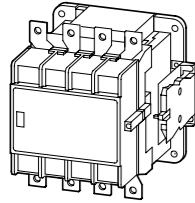
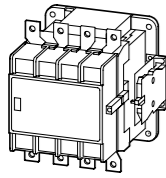
**DIL contactors**  
Complete units

Rated operational current, open			Conventional thermal current $I_{th} = I_e$ AC-1	Auxiliary contacts	Circuit symbol	Can be combined with auxiliary contact module
AC-1			Open	M = Make    B = Break		
40 °C	55 °C	70 °C	$I_{th} = I_e$			
A	A	A		A		

**DIL P contactors, 4-pole**



Screw terminals	160	160	155	160	2 M	2 B	DILP800-XHI...
	250	230	200	250			
	315	270	215	315			
	500	470	400	500			
	630			630			
	800	650	575	800			



**DIL contactors**  
Complete units

Type Article no.	Price See Price List	Std. pack	Notes
DILP160/22(48V50HZ) 207452		1 off	<p>1 Cover 6/35 2 Mechanical interlock 6/34 3 Auxiliary contacts 6/40</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			



Contactors for three-phase capacitors

	Three-phase capacitors 50 – 60 Hz								Accessories required		Circuit symbol
	Open				Enclosed				Auxiliary contact modules for side mounting	Quick-discharge resistor	
	230 V	400 V 420 V 440 V	525 V	690 V	230 V	400 V 420 V 440 V	525 V	690 V	Type	Type	
<b>With series resistors - with quick-discharge resistor</b>											
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 SDILM	–	
	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	–	–	
<b>With series resistors without quick-discharge resistor</b>											
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 thermal current  $I_{th} = 16A$   
Side mounting

	Circuit symbol	Type Article no.	Price See Price List	Std. pack
With 1 make contact		<b>10SDILM</b> 089080		5 off
With 1 break contact		<b>01SDILM</b> 001930		5 off

Contactors for three-phase capacitors

Type Article no.	Price See Price List	Std. pack	Notes
<b>DIL00MK-02(230V50HZ)</b> 047034		1 off	Weld-resistant for capacitors with inrush current peaks up to $180 \times I_N$ With quick-discharge resistor 
<b>DIL0MK-10(230V50HZ)</b> 047045			
<b>DIL1MK-10(230V50HZ)</b> 047055			
<b>DIL2MK-10(230V50HZ)</b> 047065			
<b>DIL2MKV-00(230V50HZ)</b> 047075			
<b>DIL00MK-11(230V50HZ)</b> 047023		1 off	Without quick-discharge resistor 
<b>DIL0MK-10(230V50HZ)</b> 047045			
<b>DIL1MK-10(230V50HZ)</b> 047055			
<b>DIL2MK-10(230V50HZ)</b> 047065			
<b>DIL2MKV-00(230V50HZ)</b> 047075			
<b>Accessories</b>			<b>Page</b>
2 Quick-discharge resistor			6/36
Enclosure <span style="border: 1px solid black; padding: 1px;">totally insulated</span>			Electr. Catalogue
Accessories			6/32
Application notes			6/36
Other actuating voltages			6/41

# Contactors for three-phase capacitors

## DIL 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

Circuit symbol

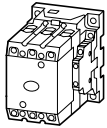
Type  
Article no.

Price  
See Price  
List

Std. pack

**Without series resistor**

Circuit with or without quick-discharge resistor



30	50	60	75	28	47	60	75
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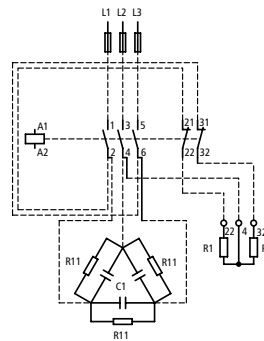
**DIL3MK72/22(230V50HZ)**  
209977

1 off

**Notes**

**Application notes**

Circuit with quick-discharge resistor

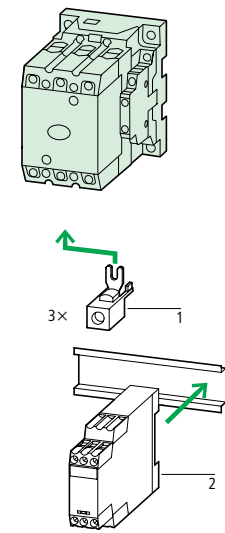
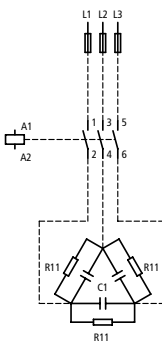


In the case of group compensation, multi-stage capacitor banks are connected to the mains as required. In the process, transient currents of up to  $180 \times I_e$  can flow between the capacitors.

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. Due to their special contacts, capacitor contactors are weld-resistant with inrush current peaks up to  $180 \times I_e$ .

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



**Accessories**

1 Extension terminal

2 Quick-discharge resistor

Enclosure totally insulated

Accessories

Other actuating voltages

Accessories required for circuit with quick-discharge resistor EWDIL:

Quick-discharge resistor EWDIL

Extension terminals: 3 × ZKDILM

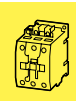
Page  
6/35

6/36

Electr. Catalogue

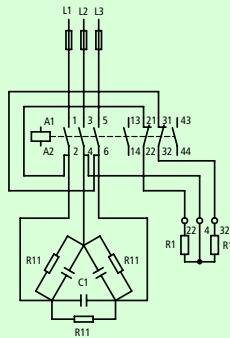
6/32

6/41

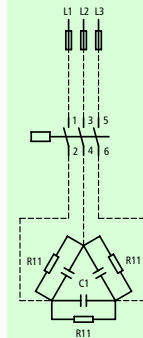


**Engineering notes**  
 Contactors for power factor correction

Circuit with quick-discharge resistor



Circuit without quick-discharge resistor



Switching capacity				Type	Page	Accessories required		Type	Page
230 V	400 V 420 V 440 V	525 V	690 V			Quick-discharge resistor	Extension terminals		
kvar	kvar	kvar	kvar	Type	Page	Type	Type	Type	Page
<b>Individual compensation, open version</b>									
3	5	5	7.5	DIL00M/22	6/16	EWDIL	–	DIL00M	6/12
4.5	7	9	11	DIL0M/22	6/16	EWDIL	3 × ZKDIL0M	DIL0M	6/12
7.5	12.5	16	20	DIL0AM/22	6/16	EWDIL	3 × ZKDIL0M	DIL0AM	6/12
12	20	25	30	DIL1M/22	6/16	EWDIL	3 × ZKDIL1M	DIL1M	6/12
13.3	25	33.3	37	DIL1AM/22	6/16	EWDIL	3 × ZKDIL1M	DIL1AM	6/12
15	30	40	50	DIL2M/22	6/16	EWDIL	3 × ZKDIL1M	DIL2M	6/12
25	45	60	60	DIL2AM/22	6/16	EWDIL	3 × ZKDIL1M	DIL2AM	6/12
40	50	50	40	DIL3M80/22	6/16	EWDIL	3 × ZKDILM	DIL3M80/22	6/16
50	60	75	66	DIL4M115/22	6/16	EWDIL	3 × ZKDILM	DIL4M115/22	6/16
87	150	190	150			–	–	DILM185/22	6/18
115	200	265	200			–	–	DILM300/22	6/18
175	300	400	300			–	–	DILM580/22	6/18
<b>Individual compensation, enclosed version</b>									
3	5	5	7.5	DIL00M/22	6/16	EWDIL	–	DIL00M	6/12
4.5	7	9	11	DIL0M/22	6/16	EWDIL	3 × ZKDIL0M	DIL0M	6/12
7.5	12.5	16	20	DIL0AM/22	6/16	EWDIL	3 × ZKDIL0M	DIL0AM	6/12
12	20	25	30	DIL1M/22	6/16	EWDIL	3 × ZKDIL1M	DIL1M	6/12
13.3	25	33.3	37	DIL1AM/22	6/16	EWDIL	3 × ZKDIL1M	DIL1AM	6/12
15	30	40	50	DIL2M/22	6/16	EWDIL	3 × ZKDIL1M	DIL2M	6/12
20	40	50	60	DIL2AM/22	6/16	EWDIL	3 × ZKDIL1M	DIL2AM	6/12
34	42	42	34	DIL3M80/22	6/16	EWDIL	3 × ZKDILM	DIL3M80/22	6/16
42	51	63	56	DIL4M115/22	6/16	EWDIL	3 × ZKDILM	DIL4M115/22	6/16
<b>Group compensation, open version</b>									
25	50	60	30	DIL3M80/22	6/16	EWDIL	3 × ZKDILM	DIL3M80/22	6/16
30	60	66	40	DIL4M115/22	6/16	EWDIL	3 × ZKDILM	DIL4M115/22	6/16
66	115	145	115	–	–	–	–	DILM185/22	6/18
85	150	195	150	–	–	–	–	DILM300/22	6/18
145	250	333	250	–	–	–	–	DILM580/22	6/18
<b>Group compensation, enclosed version</b>									
21	42	51	25	DIL3M80/22	6/16	EWDIL	3 × ZKDILM	DIL3M80/22	6/16
25	51	56	34	DIL4M115/22	6/16	EWDIL	3 × ZKDILM	DIL4M115/22	6/16

**Notes**

**Use of contactors without resistors for group compensation**

When using contactors for group compensation, a minimum inductance of approximately 6 μH per capacitor must be available to limit the high inrush current peaks. This means an air-cored coil with five windings and a coil diameter of approximately Ø140 mm. The conductor cross-section must be selected according to the rated current per phase.

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.



Contactor combinations  
DIL contactors

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

AC-3				
220 V	380 V	500 V	660 V	1000V
230 V	400 V		690 V	
240 V	440 V			
P	P	P	P	P
kW	kW	kW	kW	kW

Max. changeover time <sup>1)</sup>

AC operation

Type Article no.

Price See Price List

Std. pack

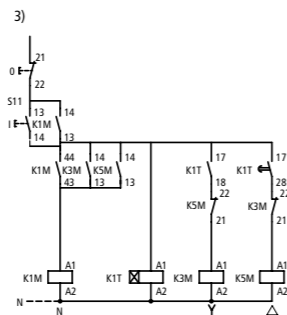
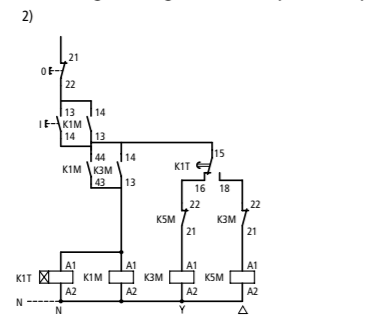
Star-delta starter combinations

Operating frequency:  
30 starts/hour

	4	5.5	5.5	–	–	30		
							SDAINLEM(230V50HZ) <sup>2)</sup> 051840	1 off
							SDAINL00AM(230V50HZ) <sup>3)</sup> 047086	
							SDAINL0M(230V50HZ) <sup>3)</sup> 047097	
							SDAINL0AM(230V50HZ) <sup>3)</sup> 047108	
							SDAINL1M(230V50HZ) <sup>3)</sup> 047119	
							SDAINL1AM(230V50HZ) <sup>3)</sup> 047130	
							SDAINL2M(230V50HZ) <sup>3)</sup> 047141	
							SDAINL2AM(230V50HZ) <sup>3)</sup> 047152	
							SDAINL3M125(230V50HZ) <sup>3)</sup> 215369	
							SDAINL3AM150(230V50HZ) <sup>3)</sup> 215384	
							SDAINL4M180(230V50HZ) <sup>3)</sup> 215399	
							SDAINL4AM250(230V50HZ) <sup>3)</sup> 215414	

Notes

<sup>1)</sup> For longer changeover times, please enquire



Contactor combinations  
DIL contactors

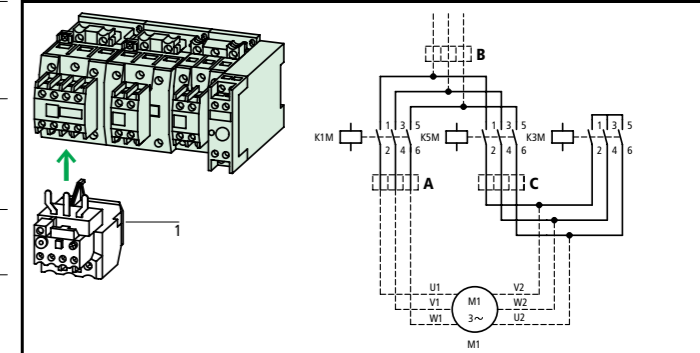
Individual components of the combination

Spare auxiliary contacts  
K1M K5M

Notes

Mains contactor K1M	Delta contactor K5M	Star contactor K3M	Timing relay K1T	K1M	K5M
Type	Type	Type	Type		

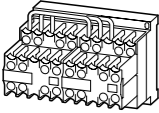
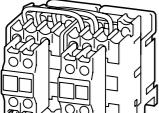
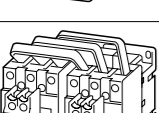
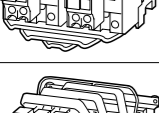
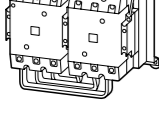






DILEM-10 + 22DILEM	DILEM-01	DILEM-10 + 02DILEM	DILET		–
DIL00AM + 31DILM	DIL00AM + 22DILM	DIL00M + 11DILM	ETR4-51		
DIL0M + 31DILM	DIL0M + 22DILM	DIL00M + 11DILM	ETR4-51		
DIL0AM + 31DILM	DIL0AM + 22DILM	DIL0M + 11DILM	ETR4-51		
DIL1M + 31DILM	DIL1M + 22DILM	DIL0M + 11DILM	ETR4-51		
DIL1AM + 31DILM	DIL1AM + 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		



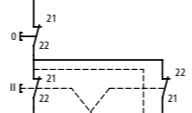
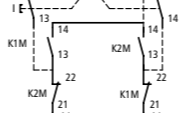
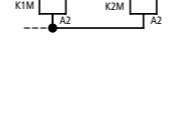
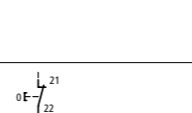
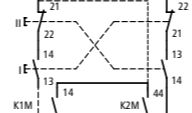
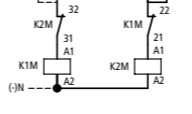





Accessories	Page	Overload relay settings	Starting
1 Overload relay	7/4	A: $I_N \times 0.58$	$\leq 15$ s
Accessories	6/32	Motor protection in star and $\Delta$ positions	
Other actuating voltages	6/41	B: $I_N \times 1$	15 – 40 s
		Only partial motor protection in star position	
		C: $I_N \times 0.58$	> 40 s
		Motor not protected in star position	
		Timing relay set to approx. 10 s	

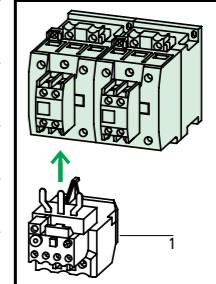
Main circuit:  
Depending on the coordination type required (i.e. Type "1" or Type "2") it must be established whether the fuse protection and the input wiring for the mains contactor and delta contactor are to be common or separate.

**Contactor combinations**  
DIL contactors

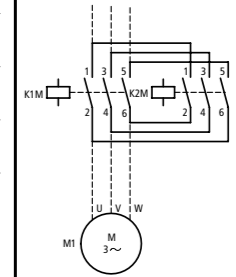
	Max. rating for three-phase motors, 50 – 60 Hz						AC operation Type Article no.	Price See Price List	Std. pack
	AC-3			AC-4					
	220 V	380 V	660 V	220 V	380 V	660 V			
	230 V	400 V	690 V	230 V	400 V	690 V			
	240 V	440 V		240 V	440 V				
	P	P	P	P	P	P			
	kW	kW	kW	kW	kW	kW			
<b>Reversing contactors</b>									
	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		

**Contactor combinations**  
DIL contactors

	Individual components of the combination		Spare auxiliary contacts		Notes
	Contactor K1M	Contactor K2M	K1M	K2M	
	Type	Type	Mechanical interlock		
	DILEEM-10 + 11DILEM	DILEEM-10 + 11DILEM	–/–	–/–	+
	DILEM-10 + 11DILEM	DILEM-10 + 11DILEM	–/–	–/–	+
	DIL00AM + 11DILM	DIL00AM + 11DILM	–	–	–
	DIL0M + 11DILM	DIL0M + 11DILM	–	–	–
	DIL0AM + 11DILM	DIL0AM + 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	Page
1 Overload relay	7/4
Accessories	6/32
Other actuating voltages	6/41











Coil to EN 50005  
Contacts to EN 50005 and EN 50012



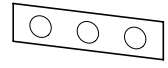
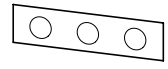
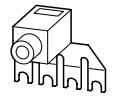

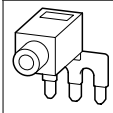

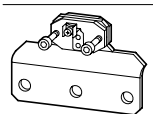
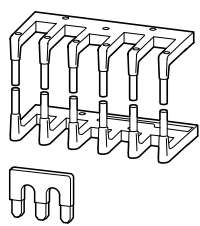


## Accessories

### DIL contactors

	Voltage	For use with	Circuit symbol	Type Article no.	Price See Price List	Std. pack	
<b>Suppressors</b>							
<b>RC suppressors</b>							
	24 – 48	DILEEM, DILEM		<b>RCDILE48</b> 044264		10 off	For AC operated contactors, 50 – 60 Hz Note dropout time
	110 – 250	DILEEM, DILEM		<b>RCDILE250</b> 046320			
	24 – 48	DILEEM...-C DILEM...-C		<b>RCDILE48-C</b> 230267			
	110 – 250	DILEEM...-C DILEM...-C		<b>RCDILE250-C</b> 230268			
	24 – 48	DIL00(A)M, DIL00BM, DIL0(A)M, DIL1(A)M, DIL2(A)M		<b>RCBDIL48</b> 067345			
	110 – 250			<b>RCBDIL250</b> 069718			
	380 – 415			<b>RCBDIL415</b> 072091			
	24 – 48	DIL3M80, DIL3AM85, DIL4M115, DIL4AM145		<b>RCSDIL48</b> 071577			
110 – 250		<b>RCSDIL250</b> 071613					
380 – 415		<b>RCSDIL415</b> 071614					
<b>Varistor suppressors</b>							
	24 – 48	DILEEM DILEM		<b>VGDILE48</b> 010320		10 off	For AC operated contactors, 50 – 60 Hz DC operated contactors have an integrated suppressor circuit as standard.
	110 – 250			<b>VGDILE250</b> 010336			
	380 – 415			<b>VGDILE415</b> 010463			
	24 – 48	DILEEM-C DILEM-C		<b>VGDILE48-C</b> 230265			
	110 – 250	DILEEM-C DILEM-C		<b>VGDILE250-C</b> 230266			
	12 – 24	DIL00(A)M, DIL00BM		<b>VGBDIL24</b> 076837			
	24 – 48	DIL0(A)M, DIL1(A)M DIL2(A)M, DIL3M80		<b>VGBDIL48</b> 071609			
	110 – 250	DIL3AM85, DIL4M115		<b>VGBDIL250</b> 071610			
	380 – 415	DIL4AM145		<b>VGBDIL415</b> 071611			
	12 – 24	DIL00(A)M, DIL00BM		<b>VGCDIL24</b> 211018			
	24 – 48	DIL0(A)M, DIL1(A)M DIL2(A)M	<b>VGCDIL48</b> 211019				
	110 – 250		<b>VGCDIL250</b> 211020				
	380 – 415		<b>VGCDIL415</b> 211021				
<b>Free-wheel diode suppressor</b>							
	12 – 250	DIL00(A)M, DIL00BM DIL0(A)M, DIL1(A)M DIL2(A)M		<b>FDBDIL</b> 074464		10 off	For DC operated contactors  Note dropout time

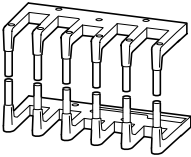
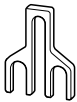


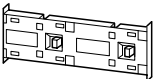
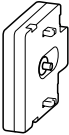
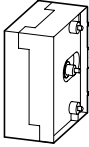
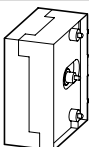
**Accessories**  
**DIL contactors**

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

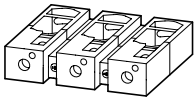
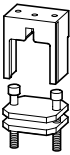
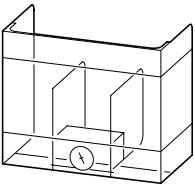






## Accessories

### DIL contactors

	For use with	Type Article no.	Price See Price List	Std. pack	Notes
<b>Reversing starter wiring kits</b>					
Main current wiring for reversing combinations					
	DILE(E)M (+MVDILEM)	<b>MVS-WB-EM</b> 220209		1 off	The following control cables are integrated in addition to the electrical interlock: <ul style="list-style-type: none"> <li>• K1M: A1 – K2M: 21</li> <li>• K1M: 21 – K2M: A1</li> <li>• K1M: A2 – K2M: A2</li> </ul> The following connection is also integrated: <ul style="list-style-type: none"> <li>• K1M: A2 – K2M: A2</li> </ul>
	DIL00(A)M	<b>MVS-WB-00M</b> 220210			
	DIL00(A)M+MVDILM	<b>MVS-WB5MV</b> 215512			
	DIL0(A)M	<b>MVS-WB-0M</b> 220211			
	DIL0(A)M+MVDILM	<b>MVS-WB11MV</b> 216344			
	DIL1(A)M	<b>MVS-WB-1M</b> 220212			
<b>Paralleling links</b>					
Consisting of 2 paralleling links					
	...DILE... ...DIL...	<b>BT480</b> 052785		100 off	Not protected against direct contact in accordance with IEC 536
<b>Set of adapters</b>					
For connecting cross-sections with cable lugs Consists of 6 adapters, pack includes 2 terminal covers					
	DIL3M80, DIL3AM85	<b>AKDIL3M</b> 050834		1 off	–
	DIL4M115, DIL4AM145	<b>AKDIL4M</b> 071574		1 off	–
<b>Mechanical interlocks</b>					
	DILEEM-(C) DILEM-(C)	<b>MVDILE</b> 010113		5 off	For contactors with the same or different magnet system mounted horizontally or vertically, distance between relays 0 mm, mechanical lifespan $2.5 \times 10^6$ operations Additional auxiliary contact modules can be fitted
	DIL00(A)M-C DIL00BM DIL0(A)M DIL1(A)M DIL2(A)M	<b>MVDILM</b> 060226		5 off	For contactors with the same or different size but with the same magnet system mounted horizontally or vertically, distance between contactors 15 mm, mechanical lifespan $5 \times 10^6$ operations
	DIL3M80, DIL3AM85 DIL4M115, DIL4AM145 DILM1815(C), DILM(C)225III DILM(C)250, DILM(C)300 DILM(C)400, DILM(C)500	<b>DILM500-XMV</b> 208289		1 off	For contactors with the same or different magnet system mounted horizontally or vertically, mechanical lifespan $5 \times 10^6$ operations. <b>No</b> auxiliary contact possible between mechanical interlock and contactor. Combination possible only of adjacent sizes (DIL3... -DIL4... and DILM(C)185... -DILM(C)500) Distance between contactors: DIL3M80-4AM145 10 mm DILM(C)185-M820 15 mm
	DILM580, DILM650 DILM750, DILM820	<b>DILM820-XMV</b> 208288		1 off	For contactors with the same or different magnet system mounted horizontally or vertically, mechanical lifespan $5 \times 10^6$ operations. <b>No</b> auxiliary contact possible between mechanical interlock and contactor. DILM820-XMV consists of interlock element and mounting plate.

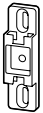





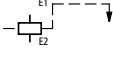
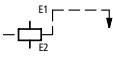
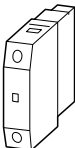



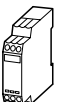

**Accessories**  
**DIL contactors**

	For use with	Type Article no.	Price See Price List	Std. pack	
<b>Cable terminal block</b>					
With control circuit terminal 	DILM(C)185 DILM(C)225	<b>DILM225-XKU-S</b> 208294		1 off	For connection of: Round conductor, flexible and stranded, flat strip conductor Terminal capacity, → Technical data, General Information in the Electronic Catalogue
	DILM(C)250 DILM(C)300 DILM(C)400	<b>DILM400-XKU-S</b> 208293		1 off	For connection of: Round conductor, flexible and stranded, flat strip conductor Terminal capacity, → Technical data, General Information in the Electronic Catalogue
<b>Flat strip conductor terminal kit</b>					
With control circuit terminal (consisting of 3 flat strip conductor terminals) 	DILM(C)500 DILM580 DILM650	<b>DILM650-XKB-S</b> 208296		1 off	For connection of: flat strip conductor Terminal capacity, → Technical data, General information in the Electronic Catalogue
	DILM750 DILM820	<b>DILM820-XKB-S</b> 208295		1 off	For connection of: flat strip conductor Terminal capacity, → Technical data, General information in the Electronic Catalogue
<b>Extension terminals</b>					
	DIL0(A)M	<b>ZKDIL0M</b> 019229		10 off	Can be fitted to all main terminals on the contactor. For connection of: max. 2 × 4 mm <sup>2</sup> solid or 2 × 2.5 mm <sup>2</sup> flexible with ferrule
	DIL1(A)M DIL2(A)M	<b>ZKDIL1M</b> 021602			
	DIL3M80 DIL3AM85 DIL4M115 DIL4AM145	<b>ZKDILM</b> 051138			
<b>Main terminal</b>					
For connecting large cross-sections	DIL1(A)M, DIL2(A)M	<b>HKDILM</b> 097762		10 off	For connecting large cross-sections. For connection with: max. 50 mm <sup>2</sup> stranded or 35 mm <sup>2</sup> flexible with ferrule
<b>Covers</b>					
Terminal cover 	DILM(C)185 DILM(C)225 DILM(C)250 DILM(C)300 DILM(C)400	<b>DILM400-XHB</b> 208287		1 off	Protection against direct contact with connection lugs when touched vertically from the front
	DILM(C)500	<b>DILM500-XHB</b> 208286			
	DILM580 DILM650	<b>DILM650-XHB</b> 208285			
	DILM750 DILM820	<b>DILM820-XHB</b> 208284			
<b>Connector</b>					
For mechanically arranging contactors and timing relays in combinations    	DILE(E)M(-C)	<b>VODILE</b> 026634		50 off	0 mm distance between relays
	DIL00(A)M(-C) DIL00BM DIL0(A)M	<b>VODIL</b> 010772		20 off	0 mm distance between relays
	DIL1(A)M DIL2(A)M	<b>V5/15DIL</b> 013145		10 off	5 mm distance between devices, for use with DC operated contactors 15 mm distance between relays for mechanical interlock between both relays
		<b>V10/A5DIL</b> 015518		10 off	10 mm distance between contactors for a side mounting auxiliary contact between two contactors 5 mm distance between relays with DC operation without permanent connection



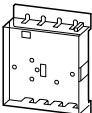

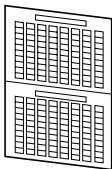
## Accessories


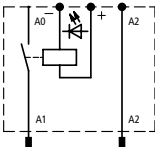

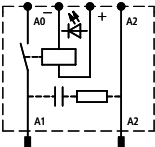
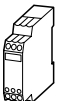
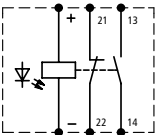
### DIL contactors

	For use with	Circuit symbol	Type Article no.	Price See Price List	Std. pack	
<b>Screw adapter</b>						
for screw fixing						
	EWDIL ETS4-VS3 ETR4	—	<b>CS-TE</b> 095853		1 off	—
<b>Pneumatic timer modules</b>						
On-delayed						
	DIL00M(C) – DIL2AM		<b>TPE11DIL</b> 002279		1 off	Switching times 0.2 – 30 s and 20 – 180 s adjustable. Conventional free-air thermal current 10 A. Timer modules with TÜV approval for furnaces
Off-delayed						
	DIL00M(C) – DIL2AM		<b>TPD11DIL</b> 002280		1 off	
<b>Mechanical latching modules</b>						
	DIL00M(-C)		<b>V-GDIL(24VDC)</b> 048562		1 off	Pulse duration: 200 ms Other actuating voltages
	DIL00M(-C)		<b>VDIL(230V50HZ,240V60HZ)</b> 043825		1 off	DF: 100 % Other actuating voltages
<b>4th pole</b>						
Only for AC-1 load, up to 2 auxiliary contacts can be fitted						
	DIL0M DIL1M DIL2M		<b>NDIL0M</b> 062006 <b>NDIL1M</b> 060243 <b>NDIL2M</b> 060264		1 off	$I_e$ AC-1 Open/Enclosed 35 A/30 A $I_e$ AC-1 Open/Enclosed 55 A/44 A $I_e$ AC-1 Open/Enclosed 75 A/60 A
<b>Blade terminal to DIN 46 244</b>						
For auxiliary contact and coil connections, when using insulated ferrules DIN 46 245 1 × 6.3 × 0.8/2 × 2.8 × 0.8 mm						
	DILEM, DIL00M to DILM820	—	<b>BT483</b> 059904		100 off	—
	DIL3M80 to DILM820	—	<b>BT2571</b> 062276		100 off	—
<b>Quick-discharge resistors</b>						
For capacitors up to a rated voltage of 525 V, Resistor 2 × 150 Ohm						
	DIL00(A)M – DIL4AM145 DIL00MK – DIL3MK72	—	<b>EWDIL</b> 085918		1 off	Order extension terminals separately: DIL0(A)M → 3 off ZKDIL0M DIL1(A)M → 3 off ZKDIL1M DIL2(A)M → 3 off ZKDIL1M DIL3M80 → 3 off ZKDILM DIL3MK72 → 3 off ZKDILM
<b>Front plates</b>						
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)	—	<b>HDIL00M</b> 093665		10 off	—



## Accessories DIL contactors

		For use with	Type Article no.	Price See Price List	Std. pack
<b>Sealable shrouds</b>					
Transparent					
	-	DILEEM, DILEM	<b>HDILE</b> 010482		1 off For latching on the contactor. For use open or in the service distribution board. Degree of protection: IP40 front
	-	TPE(H)11DIL, TPD(H)11DIL	<b>PL-DILT</b> 036073		5 off For screw fixing on the timer block and sealing
<b>Device labelling</b>					
Sheet of labels					
	7.5 × 17 mm Colour: yellow HKS 3 (≈ RAL 1018)	Inscription using laser printer, plotter, marker pen, copier	<b>XGKE-GE</b> 207517		25 off 1 off = 1 sheet 240 labels per sheet  1 sheet = DIN A4 Can be split into two DIN A5 sheets  Inscription software can be found on the Electronic Catalogue CD.

		Rated operational current AC-15	Rated operational current DC	Actuating voltage	Actuating current	Circuit symbol	For use with	Type Article no.	Price See Price List	Std. pack
		240V	415V	220V						
		$I_e$	$I_e$	$I_e$	$U_s$	$I$				
		A	A	A	V DC	mA				
<b>Amplifier modules</b>										
Plugin type can be fitted directly										
	1.5	1	0.2 <sup>1)</sup>	24	25		DIL00(A)M, DIL0(A)M, DIL1(A)M, DIL2(A)M	<b>VS1DIL</b> 055480		1 off Contactor coils with rated operational currents > 2 A must be energized via the DILER-G mini contactor.
	1.5	1	0.2 <sup>1)</sup>	24	25		DIL00(A)M, DIL0(A)M, DIL1(A)M, DIL2(A)M	<b>VS2DIL</b> 057853		1 off
	2	2	0.03 <sup>2)</sup>	24	25		As required	<b>ETS4-VS3</b> 083094		1 off

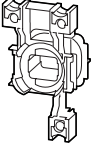
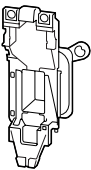
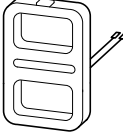
**Notes**

- 1) Rated operational current DC: Making and breaking requirements in accordance with DC-13, L/R 300 ms
- 2) Rated operational current DC: Making and breaking requirements in accordance with DC-11, L/R 300 ms



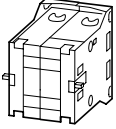
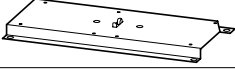
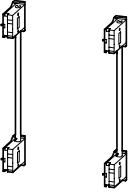

## Accessories


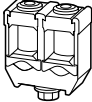
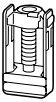
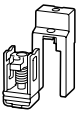
### DIL contactors

	Terminations	For use with	AC operation		DC operation		Std. pack
			Type Article no.	Price See Price List	Type Article no.	Price See Price List	
<b>Individual coils</b>							
	Screw terminals	DIL00(A)M	<b>J-DIL00M(230V50HZ)</b> 043833		<b>G-DIL00M(24VDC)</b> 048557		1 off
		DIL0(A)M	<b>J-DIL0M(230V50HZ)</b> 047440		<b>G-DIL0M(24VDC)</b> 063206		
		DIL1(A)M	<b>J-DIL1M(230V50HZ)</b> 047452		<b>G-DIL1M(24VDC)</b> 063211		
		DIL2(A)M	<b>J-DIL2M(230V50HZ)</b> 048233		<b>G-DIL2M(24VDC)</b> 063216		
		DIL3(A)M80/85	<b>J-DIL3M(230V50HZ)</b> 048922		<b>G-DIL3M(24VDC)</b> 063221		
		DIL3MK72	<b>J-DIL3MK(230V50HZ)</b> 065782				
		DIL4(A)M115/145	<b>J-DIL4M(230V50HZ)</b> 048933		<b>G-DIL4M(24VDC)</b> 063226		
	Spring-loaded terminals	DIL00(A)M-C	<b>J-DIL00M-C(230V50HZ)</b> 232055		<b>G-DIL00M-C(24VDC)</b> 232065		
		DIL00(A)M-C	<b>J-DIL00M-C(230V50HZ-Z)<sup>1)</sup></b> 232073		<b>G-DIL00M-C(24VDC-Z)<sup>1)</sup></b> 232075		
<b>Electronic modules including coils<sup>2)</sup></b>							
	-	DILM(-C)185	<b>DILM250-XSP/E(RA250)</b> 208252		<b>DILM250-XSP/E(RA250)</b> 208252		1 off
		DILM(-C)225					
		DILM(-C)250					
	-	DILM(-C)300	<b>DILM500-XSP/E(RA250)</b> 208256		<b>DILM500-XSP/E(RA250)</b> 208256		
		DILM(-C)400					
		DILM(-C)500					
-	DILM580	<b>DILM820-XSP/E(RA250)</b> 208259		<b>DILM820-XSP/E(RA250)</b> 208259			
	DILM650						
	DILM750						
	DILM820						

**Notes**<sup>1)</sup> With integral suppressor circuit<sup>2)</sup> Other actuating voltages

## Accessories DILP contactors

	For use with	Type Article no.	Price See Price List	Std. pack
<b>Mechanical interlock</b>				
Contactors fitted side-by-side				
	DILP160, DILP250	<b>DILP250-XMV</b> 207472		1 off
	DILP315	<b>DILP315-XMV</b> 207473		
	DILP500, DILP630, DILP800	<b>DILP800-XMV</b> 207474		
Contactors fitted in column				
	DILP160, DILP250	<b>DILP250-XMV-S</b> 207475		
	DILP315	<b>DILP315-XMV-S</b> 207476		
<b>Terminal cover</b>				
	DILP160, DILP250	<b>DILP250-XHB</b> 207477		2 off
	DILP315	<b>DILP315-XHB</b> 207478		
	DILP500, DILP630, DILP800	<b>DILP800-XHB</b> 207479		

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



## Accessories DILP contactors

	Conventional free air thermal current, open up to 690 V AC $I_{th} = I_e$	Auxiliary contacts M = Make B = Break	Circuit symbol	For use with	Type Article no.	Price See Price List	Std. pack	Notes
<b>Auxiliary contact modules</b>								
<b>Side mounting</b>								
	10	1 M	1 B		DILP160 DILP250 DILP315	<b>DILP800-XHI-SI</b> 207470	1 off	<b>Auxiliary contact module fitting options:</b> ① = Basic features 
	10	1 M	1 B		DILP500 DILP630 DILP800	<b>DILP800-XHI-SA</b> 207471		
	10	1 M	1 B			<b>DILP800-XHIV-SRI<sup>1)</sup></b> 207554		

**Notes**      <sup>1)</sup> 1 early-make contact, 1 late-break contact

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.

## Actuating voltages

### DILEM mini contactors with screw terminals

AC		DILEEM-10(...)	DILEEM-01(...)	DILEM-10(...)	DILEM-01(...)	DILEM4(...)	MSE(...)
		Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>
Standard voltages	Price	See Price List					
12V 50Hz		068294	068295	068296	068297	079644	068301
24V 50Hz		051604	051629	010005	010086	014754	055443
48V 50Hz		051603	051628	010020	010294	011052	047980
240V 50Hz		051602	051627	010032	010151	014305	055165
24V 60Hz		051600	051625	010006	010134	014776	055518
110V 60Hz		051599	051623	010023	010342	012419	047489
115V 60Hz		051598	051624	010024	010470	012514	048137
42V 50Hz, 48V 60Hz		051612	051637	051782	051791	051800	051854
110V 50Hz, 120V 60Hz		051611	051636	051783	051792	051801	051855
190V 50Hz, 220V 60Hz		051610	051635	051784	051793	051802	051856
220V 50Hz, 240V 60Hz		051609	051634	051785	051794	051803	051857
230V 50Hz, 240V 60Hz		051608	051633	051786	051795	051804	051858
380V 50Hz, 440V 60Hz		051607	051632	051787	051796	051805	051859
400V 50Hz, 440V 60Hz		051606	051631	051788	051797	051806	051860
415V 50Hz, 480V 60Hz		051605	051630	051789	051798	051807	051861
24V 50/60Hz		051596	051621	021417	020402	022044	055338
42V 50/60Hz		051595	051620	032174	033233	031489	059780
110V 50/60Hz		051592	051618	021455	020436	022021	045637
230V 50/60Hz		056674	058771	052302	051114	052506	060473
DC		DILEEM-10-G(...)	DILEEM-01-G(...)	DILEM-10-G(...)	DILEM-01-G(...)	DILEM4-G(...)	
		Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	
Standard voltages	Price	See Price List					
12V DC		051644	051649	079594	079642	079680	
24V DC		051643	051650	010213	010343	012701	
48V 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

<sup>1)</sup> To obtain the article number for ordering, read under selected type and actuating voltage from the table above.  
Devices with **dual-voltage coils** must be ordered using **one** article number.



## Actuating voltages

## DILEM mini contactors with spring-loaded terminals

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

## Notes

<sup>1)</sup> To obtain the article number for ordering, read under selected type and actuating voltage from the table above.



**Actuating voltages**  
DIL00M to DIL1AM contactors

AC	DIL00M (...)	DIL00M4 (...)	DIL00AM (...)	DIL00BM (...)	DIL00BM- 10(...)	DIL00BM- 01(...)	DIL0M (...)	DIL0AM (...)	DIL1M (...)	DIL1AM (...)
	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>
<b>Standard voltages</b>	<b>See Price List</b>									
<b>Price</b>	<b>See Price List</b>									
24V 50Hz	041764	000104	068921	041142	044232	044200	009506	054590	049856	011886
48V 50Hz	048883	023834	045191	041143	044233	044201	035609	080693	078332	040362
240V 50Hz	058375	095023	078413	041144	044234	044202	002387	047471	045110	007140
500V 50Hz	065494	030953	038072	041145	044235	044203	040355	085439	080705	042735
24V 60Hz	086851	099769	071294	042754	044245	044213	011879	056963	052229	014259
115V 60Hz	079732	078412	090278	043015	044246	044214	092560	035606	030872	094940
42V 50Hz, 48V 60Hz	060476	046933	061221	061229	061237	061245	061253	061261	061269	061417
110V 50Hz, 120V 60Hz	060477	046926	061222	061230	061238	061246	061254	061262	061270	061427
190V 50Hz, 220V 60Hz	060478	046927	061223	061231	061239	061247	061255	061263	061271	061437
220V 50Hz, 240V 60Hz	061216	046928	061225	061232	061240	061248	061256	061264	061272	061447
230V 50Hz, 240V 60Hz	061217	046929	061224	061233	061241	061249	061257	061265	061273	061457
380V 50Hz, 440V 60Hz	061218	046930	061226	061234	061242	061250	061258	061266	061274	043586
400V 50Hz, 440V 60Hz	061219	046931	061227	061235	061243	061251	061259	061267	061275	043981
415V 50Hz, 480V 60Hz	061220	046932	061228	061236	061244	061252	061260	061268	061375	044266
24V 50/60Hz	093970	097396	073667	043648	044255	044223	007133	052217	047483	009513
42V 50/60Hz	088324	083288	088471	043718	044256	044224	023744	068828	064094	026124
110V 50/60Hz	098716	073666	095024	044170	044258	044226	085441	028487	023753	087821
230V 50/60Hz	043380	045969	043237	045388	045610	045563	043665	043527	043695	043666
380V 50/60Hz	013289	007223	064175	044172	044260	044228	016625	061709	056975	019005
Non-standard voltages (i.e. voltages other than the standard voltages listed above) <sup>2)</sup>	<b>See Price List</b>									
...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
<b>DC</b>	<b>DIL00M -G(...)</b>	<b>DIL00M4 -G(...)</b>	<b>DIL00AM -G(...)</b>	<b>DIL00BM -G(...)</b>	<b>DIL00BM -G-10(...)</b>	<b>DIL00BM -G-01(...)</b>	<b>DIL0M -G(...)</b>	<b>DIL0AM -G(...)</b>	<b>DIL1M -G(...)</b>	<b>DIL1AM -G(...)</b>
	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>
<b>Standard voltages</b>	<b>See Price List</b>									
<b>Price</b>	<b>See Price List</b>									
24V DC	048587	063171	048567	048572	048582	048577	048597	048592	048605	048602
48V 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 (i.e. voltages other than the standard voltages listed above) <sup>2)</sup>	<b>See Price List</b>									
...V DC (12 – 250V)	915546	915232	915547	915548	915549	915550	915551	915552	915553	915554

**Notes**

- 1) To obtain the article number for ordering, read under selected type and actuating voltage from the table above. Devices with **dual-voltage coils** must be ordered using **one** article number.
- 2) When ordering non-standard voltages, state the required actuating voltage selected from the range (...–...V) shown.



## Actuating voltages

### DIL2M to DIL4AM145 contactors, VDIL mechanical latching modules

AC		DIL2M(...)	DIL2AM(...)	DIL3M80(...)	DIL3AM85(...)	DIL4M115(...)	DIL4AM145(...)	VDIL(...)
		Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>
<b>Standard voltages</b>	<b>Price</b>	<b>See Price List</b>						
24V 50Hz		009525	033253	209681	209715	209743	209771	053536
48V 50Hz		038001	061729	209683	209716	209744	209772	055493
240V 50Hz		004779	028507	209684	209717	209745	209773	053115
500V 50Hz		078341	064102	209685	209718	209746	209774	–
24V 60Hz		011898	035626	209687	209720	209747	209775	053659
115V 60Hz		092579	014269	209689	209721	209748	209776	052241
42V 50Hz, 48V 60Hz		046562	046570	209690	209722	209749	209777	043821
110V 50Hz, 120V 60Hz		046563	046571	209691	209723	209750	209778	043822
190V 50Hz, 220V 60Hz		046564	046572	209692	209724	209751	209779	043823
220V 50Hz, 240V 60Hz		046565	046573	209693	209725	209752	209780	043824
230V 50Hz, 240V 60Hz		046566	046574	209694	209726	209753	209781	043825
380V 50Hz, 440V 60Hz		046567	046575	209695	209727	209754	209782	–
400V 50Hz, 440V 60Hz		046568	046576	209696	209728	209755	209783	–
415V 50Hz, 480V 60Hz		046569	046577	209701	209729	209756	209784	–
24V 50/60Hz		007152	030880	209702	209730	209758	209785	053217
42V 50/60Hz		023763	049864	209703	209731	209759	209786	055218
110V 50/60Hz		085460	007150	209704	209732	209760	209787	051165
230V 50/60Hz		048774	044082	209705	209733	209761	209788	054487
380V 50/60Hz		016644	042745	209706	209734	209762	209789	054695
<b>Non-standard voltages</b>	<b>Price</b>	<b>See Price List</b>						
(i.e. voltages other than the standard voltages listed above) <sup>2)</sup>								
...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. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>
<b>Standard voltages</b>	<b>Price</b>	<b>See Price List</b>						
24V DC		048615	048610	209709	209737	209765	209792	048562
48V 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
<b>Non-standard voltages</b>	<b>Price</b>	<b>See Price List</b>						
(i.e. voltages other than the standard voltages listed above) <sup>2)</sup>								
...V DC (12 – 250V)		915539	915540	–	–	–	–	915545
...V DC (24 – 250V)		–	–	209714	209742	209770	209797	–

#### Notes

- <sup>1)</sup> To obtain the article number for ordering, read under selected type and actuating voltage from the table above. Devices with **dual-voltage coils** must be ordered using **one** article number.
- <sup>2)</sup> When ordering non-standard voltages, state the actuating voltage selected from the range (...-...V) shown.



## Actuating Voltages

### DIL00M to DIL0M complete units

AC		DIL00M -10(...)	DIL00M -01(...)	DIL00M /11(...)	DIL00M /22(...)	DIL00AM -10(...)	DIL00AM -01(...)	DIL00AM /11(...)	DIL00AM /22(...)	DIL0M /11(...)	DIL0M /22(...)
		Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>
<b>Standard voltages</b>	<b>Price</b>	See Price List									
24V 50Hz		020408	039393	047562	028579	000106	033327	068923	035702	033237	000016
48V 50Hz		027527	046512	059427	040444	078414	057057	092653	011972	061713	026119
240V 50Hz		037019	063123	045189	026206	007225	026208	061804	045194	026118	094935
500V 50Hz		044138	060750	061800	042817	071295	064176	099772	004853	064086	033238
24V 60Hz		048884	013290	076038	057055	002479	030954	066550	038075	035610	002389
115V 60Hz		058376	022782	085530	066547	023836	009597	045193	059432	011880	080697
42V 50Hz, 48V 60Hz		046642	046650	046658	046666	046674	046682	046690	046698	046706	046714
110V 50Hz, 120V 60Hz		046643	046651	046659	046667	046675	046683	046691	046699	046707	046715
190V 50Hz, 220V 60Hz		046644	046652	046660	046668	046676	046684	046692	046700	046708	046716
220V 50Hz, 240V 60Hz		046645	046653	046661	046669	046677	046685	046693	046701	046709	046717
230V 50Hz, 240V 60Hz		046646	046654	046662	046670	046678	046686	046694	046702	046710	046718
380V 50Hz, 440V 60Hz		046647	046655	046663	046671	046679	046687	046695	046703	046711	046719
400V 50Hz, 440V 60Hz		046648	046656	046664	046672	046680	046688	046696	046704	046712	046720
415V 50Hz, 480V 60Hz		046649	046657	046665	046673	046681	046689	046697	046705	046713	046721
24V 50/60Hz		072614	098717	092649	007222	004852	028581	064177	040448	030864	099681
42V 50/60Hz		034842	088382	088421	088443	088530	088504	088553	088579	047475	014254
110V 50/60Hz		077360	093971	087903	011968	028582	004851	040447	064178	004761	073578
230V 50/60Hz		043526	043444	045663	045815	043305	044083	044190	045181	047934	048051
380V 50/60Hz		082106	089225	095022	004849	097398	038073	073669	030956	040356	007135
Non-standard voltages (i.e. voltages other than the standard voltages listed above) <sup>2)</sup>	<b>Price</b>	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. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>
<b>Standard voltages</b>	<b>Price</b>	See Price List									
24V DC		048670	048665	048675	048680	048650	048645	048655	048660	048686	048953
48V 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 (i.e. voltages other than the standard voltages listed above) <sup>2)</sup>	<b>Price</b>	See Price List									
...V DC (12 – 250V)		915529	915530	915531	915532	915533	915534	915535	915536	915537	915538

#### Notes

<sup>1)</sup> To obtain the article number for ordering, read under selected type and actuating voltage from the table above. Devices with **dual-voltage coils** must be ordered using **one** article number.

<sup>2)</sup> When ordering non-standard voltages, state the actuating voltage selected from the range (...-...V) shown.



## Actuating Voltages

DIL00(A)M-C complete units with spring-loaded terminals

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

## Notes

<sup>1)</sup> To obtain the article number for ordering, read under selected type and actuating voltage from the table above. Devices with **dual-voltage coils** must be ordered using **one** article number.



**Actuating Voltages**  
DIL0AM to DIL4AM145 complete units

AC		DIL0AM/ 11(...)	DIL0AM/ 22(...)	DIL1M/ 22(...)	DIL1AM/ 22(...)	DIL2M/ 22(...)	DIL2AM/ 22(...)	DIL3M80/ 22(...)	DIL3AM85/ 22(...)	DIL4M115/ 22(...)	DIL4AM145/ 22(...)
		Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>
<b>Standard voltages</b>	<b>Price</b>	<b>See Price List</b>									
24V 50Hz		078321	045100	054603	016633	009526	040373	209858	209886	209913	209940
48V 50Hz		002386	071203	083079	045109	038002	068849	209859	209887	209914	209941
240V 50Hz		071202	037981	049857	011887	004780	035627	209860	209888	209915	209942
500V 50Hz		009505	075949	085452	047482	040375	071222	209861	209889	209916	209943
24V 60Hz		080694	047473	056976	019006	011899	042746	209863	209890	209917	209944
115V 60Hz		056964	023743	033246	097314	090207	019016	209864	209891	209918	209945
42V 50Hz, 48V 60Hz		046752	046760	046768	046776	046784	046792	209865	209892	209919	209946
110V 50Hz, 120V 60Hz		046753	046761	046769	046777	046785	046793	209866	209893	209920	209947
190V 50Hz, 220V 60Hz		046754	046762	046770	046778	046786	046794	209867	209894	209921	209948
220V 50Hz, 240V 60Hz		046755	046763	046771	046779	046787	046795	209868	209895	209922	209949
230V 50Hz, 240V 60Hz		046756	046764	046772	046780	046788	046796	209869	209896	209923	209950
380V 50Hz, 440V 60Hz		046757	046765	046773	046781	046789	046797	209870	209897	209924	209951
400V 50Hz, 440V 60Hz		046758	046766	046774	046782	046790	046798	209871	209898	209925	209952
415V 50Hz, 480V 60Hz		046759	046767	046775	046783	046791	046799	209872	209899	209926	209953
24V 50/60Hz		075948	042727	052230	014260	007153	038000	209873	209900	209927	209954
42V 50/60Hz		092559	059338	068841	030871	023764	054611	209874	209901	209928	209955
110V 50/60Hz		049845	016624	026127	090195	083088	011897	209875	209902	209929	209956
230V 50/60Hz		047469	047556	048243	048181	049861	048415	209876	209903	209930	209957
380V 50/60Hz		085440	052219	061722	023752	016645	047492	209877	209904	209931	209958
Non-standard voltages (i.e. voltages other than the standard voltages listed above) <sup>2)</sup>	<b>Price</b>	<b>See Price List</b>									
...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. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>
<b>Standard voltages</b>	<b>Price</b>	<b>See Price List</b>									
24V DC		049000	049997	051692	050858	051702	051697	209880	209907	209934	209961
48V 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 (i.e. voltages other than the standard voltages listed above) <sup>2)</sup>	<b>Price</b>	<b>See Price List</b>									
...V DC (12–250V)		915519	915520	915521	915522	915523	915524	–	–	–	–
...V DC (24–250V)		–	–	–	–	–	–	209885	209912	209939	209966

**Notes**

- 1) To obtain the article number for ordering, read under selected type and actuating voltage from the table above. Devices with **dual-voltage coils** must be ordered using **one** article number.
- 2) When ordering non-standard voltages, state the actuating voltage selected from the range (...–...V) shown.



## Actuating Voltages

DILM185 to DILM820 complete units, electronic modules including coils

Complete units	DILM185 /22(...)	DILM225 /22(...)	DILM250 /22(...)	DILM300 /22(...)	DILM400 /22(...)	DILM500 /22(...)	DILM580 /22(...)	DILM650 /22(...)	DILM750 /22(...)	DILM820 /22(...)
	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>
<b>Voltage version</b>	<b>See Price List</b>									
<b>RDC 48</b> <sup>2)</sup>	208191	208195	208199	208203	208207	208211	210971	210972	210973	210974
<b>RA 110</b> <sup>3)</sup>	208192	208196	208200	208204	208208	208212	208215	208218	208221	208224
<b>RA 250</b> <sup>4)</sup>	208193	208197	208201	208205	208209	208213	208216	208219	208222	208225
<b>RAC 500</b> <sup>5) 6)</sup>	208194	208198	208202	208206	208210	208214	208217	208220	208223	208226

Complete units with spring-loaded terminals	DILMC185 /22(...)	DILMC225 /22(...)	DILMC250 /22(...)	DILMC300 /22(...)	DILMC400 /22(...)	DILMC500 /22(...)
	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>
<b>Voltage version</b>	<b>See Price List</b>					
<b>RDC 48</b> <sup>2)</sup>	229657	229658	229659	229660	229661	229662
<b>RA 110</b> <sup>3)</sup>	217964	217967	217970	217973	217976	217979
<b>RA 250</b> <sup>4)</sup>	217963	217966	217969	217972	217975	217978
<b>RAC 500</b> <sup>5) 6)</sup>	217965	217968	217971	217974	217977	217980

Electronic module incl. coil	DILM250-XSP/E(...)	DILM500-XSP/E(...)	DILM820-XSP/E(...)
	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>
<b>Voltage version</b>	<b>See Price List</b>		
<b>RDC 48</b> <sup>2)</sup>	208250	208254	210977
<b>RA 110</b> <sup>3)</sup>	208251	208255	208258
<b>RA 250</b> <sup>4)</sup>	208252	208256	208259
<b>RAC 500</b> <sup>5) 6)</sup>	208253	208257	208260

## Notes

- <sup>1)</sup> To obtain the article number for ordering, read under selected type and voltage version from the table above.
- <sup>2)</sup> 24 – 48 V DC
- <sup>3)</sup> 48 – 110 V 40 – 60 Hz/48 – 110 V DC
- <sup>4)</sup> 110 – 250 V 40 – 60 Hz/110 – 250 V DC
- <sup>5)</sup> 250 – 500 V 40 – 60 Hz
- <sup>6)</sup> DC: on request



## Actuating Voltages

### Contactors for three-phase capacitors

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

- <sup>1)</sup> To obtain the article number for ordering, read under selected type and actuating voltage from the table above. Devices with dual-voltage coils must be ordered using one article number.
- <sup>2)</sup> When ordering non-standard voltages, state the actuating voltage selected from the range (...–...V) shown.



## Actuating Voltages

### SDAINLEM to SDAINL1AM open contactor combinations

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

- <sup>1)</sup> To obtain the article number for ordering, read under selected type and actuating voltage from the table above. Devices with **dual-voltage coils** must be ordered using **one** article number.
- <sup>2)</sup> When ordering non-standard voltages, state the actuating voltage selected from the range (...–...V) shown.



**Actuating Voltages**

## SDAINL2M to SDAINL4AM145 open contactor combinations

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

**Notes**

- <sup>1)</sup> To obtain the article number for ordering, read under selected type and actuating voltage from the table above. Devices with **dual-voltage coils** must be ordered using **one** article number.
- <sup>2)</sup> When ordering non-standard voltages, state the actuating voltage selected from the range (...-...V) shown.



## Actuating Voltages

DIULEEM to DIUL4AM145 open contactor combinations

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. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>
Standard voltages	Price	See Price List									
12V 50Hz	068299	068300	–	–	–	–	–	–	–	–	–
24V 50Hz	051662	000073	042762	049883	009542	035646	019036	209798	209813	209828	209843
48V 50Hz	051654	000105	064119	071240	030899	057003	040393	209799	209814	209829	215215
240V 50Hz	051663	000215	035643	042764	002423	028527	011917	209800	209815	209830	209845
24V 60Hz	051661	000074	040389	047510	007169	033273	016663	209801	209816	209831	209846
110V 60Hz	051667	000127	–	–	–	–	–	–	–	–	–
115V 60Hz	051656	000128	047210	047221	047232	047243	047254	209802	209817	209832	209847
42V 50Hz, 48V 60Hz	051655	051845	047211	047222	047233	047244	047255	209803	209818	209833	209848
110V 50Hz, 120V 60Hz	051668	051846	047212	047223	047234	047245	047256	209804	209819	209834	209849
190V 50Hz, 220V 60Hz	051666	051847	047213	047224	047235	047246	047257	209805	209820	209835	209850
220V 50Hz, 240V 60Hz	051665	051848	047214	047225	047236	047247	047258	209806	209821	209836	209851
230V 50Hz, 240V 60Hz	051664	051849	047215	047226	047237	047248	047259	209807	209822	209837	209852
380V 50Hz, 440V 60Hz	051659	051850	047216	047227	047238	047249	047260	209808	209823	209838	209853
400V 50Hz, 440V 60Hz	051658	051851	047217	047228	047239	047250	047261	209809	209824	209839	209854
415V 50Hz, 480V 60Hz	051657	051852	047218	047229	047240	047251	047262	209810	209825	209840	209855
Non-standard voltages (i.e. voltages other than the standard voltages listed above) <sup>2)</sup>	–	–	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

- <sup>1)</sup> To obtain the article number for ordering, read under selected type and actuating voltage from the table above.  
Devices with **dual-voltage coils** must be ordered using **one** article number.
- <sup>2)</sup> When ordering non-standard voltages, state the actuating voltage selected from the range (...–...V) shown.



## Actuating Voltages DIL00M to DIL4M individual coils

AC		J-DIL00M(...)	J-DIL00M-C(...) <sup>3)</sup>	J-DIL00M-C(...-Z) <sup>3)</sup>	J-DIL0M(...)	J-DIL1M(...)	J-DIL2M(...)	J-DIL3M(...)	J-DIL4M(...)
		Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>
<b>Standard voltages</b>	<b>Price</b>	<b>See Price List</b>							
24V 50Hz		000079	232045	232070	061777	097373	057034	050843	062815
48V 50Hz		023809	232046	–	057031	000081	052288	051144	062816
240V 50Hz		066693	232047	–	093006	097752	005206	052232	062817
500V 50Hz		080760	232048	–	047539	009573	042796	052504	062818
24V 60Hz		099744	232049	–	064150	026184	059407	053518	062819
115V 60Hz		043837	232050	–	047435	047447	047937	053594	062820
42V 50Hz, 48V 60Hz		043829	232051	232071	047436	047448	048014	048918	048929
110V 50Hz, 120V 60Hz		043830	232052	232072	047437	047449	048015	048919	048930
190V 50Hz, 220V 60Hz		043831	232053	–	047438	047450	048016	048920	048931
220V 50Hz, 240V 60Hz		043832	232054	–	047439	047451	048151	048921	048932
230V 50Hz, 240V 60Hz		043833	232055	232073	047440	047452	048233	048922	048933
380V 50Hz, 440V 60Hz		043834	232056	–	047441	047453	048398	048923	048934
400V 50Hz, 440V 60Hz		043835	232057	–	047442	047454	048486	048924	048935
415V 50Hz, 480V 60Hz		043836	232058	–	047443	047455	048772	048925	048936
24V 50/60Hz		002452	232059	–	030928	028557	090256	055397	062838
42V 50/60Hz		011944	232060	–	033301	030930	087883	055481	062839
110V 50/60Hz		085506	232061	–	038047	035676	083137	055568	062841
230V 50/60Hz		051352	232062	232074	050193	050194	050195	050196	050197
380V 50/60Hz		004825	232063	–	042793	040422	078391	055891	062843
Non-standard voltages (i.e. voltages other than the standard voltages listed above) <sup>2)</sup>	<b>Price</b>	<b>See Price List</b>							
...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(...) <sup>3)</sup>	G-DIL00M-C(...-Z) <sup>3)</sup>	G-DIL0M(...)	G-DIL1M(...)	G-DIL2M(...)	G-DIL3M(...)	G-DIL4M(...)
		Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>	Article no. <sup>1)</sup>
<b>Standard voltages</b>	<b>Price</b>	<b>See Price List</b>							
24V DC		048557	232065	232075	063206	063211	063216	063221	063226
48V 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 (i.e. voltages other than the standard voltages listed above) <sup>2)</sup>	<b>Price</b>	<b>See Price List</b>							
...V DC (12 – 250V)		910110	–	–	910111	910112	910113	–	–
...V DC (24 – 250V)		–	–	–	–	–	–	910114	910115

### Notes

- <sup>1)</sup> To obtain the article number for ordering, read under selected type and actuating voltage from the table above. Devices with **dual-voltage coils** must be ordered using **one** article number.
- <sup>2)</sup> When ordering non-standard voltages, state the actuating voltage selected from the range (...-...V) shown.
- <sup>3)</sup> With spring-loaded terminals.

