



Mini contactor relays, contactor relay, contactors

Continual operation requires high operational reliability in the components used. The DILM contactor achieves the best lifespan values in AC-3 applications and is ideal for heavy AC-4 jogging.



Mini contactor relay DILE..., contactor relays, contactors up to 12 A AC-3 at 400 V

Compact dimensions for the highest packing densities +++ Extended performance range up to 5.5 kW at 400 V

AC and DC contactor system DILM..., contactor relays, 3 pole contactors up to 170 A AC-3 at 400 V, 4 pole contactors up to 200 A AC-1

Easier engineering through identical construction sizes for AC- and DC-operated contactors +++ Energy savings and higher packing density in control panel due to minimized heat dissipation +++ High wiring security through doubled box terminals +++ Less coupler relays: direct actuation from the PLC for contactors up to 32 A +++ Easy engineering through integrated suppressor circuits for DC +++ Uniform accessories for 3- and 4-pole contactors +++ Mechanical interlock double conductor run mountable without additional separation gap +++ Direct fieldbus connection through the communication system SmartWire-Darwin, through plug-in type protective module

High rated contactors- contactors up to 1600 A AC-3 at 400 V, contactors up to 2600 A AC-1

Compact dimensions with high switching power +++ Direct actuation from the PLC saves coupler relays +++ Easy engineering through wide range coils +++ Cost and energy savings for control panel ventilation due to reduced heat dissipation +++ Long lifespan through vacuum technology from 580 A



Eaton After Sales Service

Testing switching devices in compliance with regulations applicable to this technology
→ Chapter 22



SmartWire-Darwin

The DIL product range offers contact elements which can be connected to the SmartWire-Darwin communication system. → Protective modules, Page 5/62



Ordering

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DILA contactor relays

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Contactors DILM, DILH

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Ordering

CMD contactor monitoring device	5/68
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Ordering

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Ordering

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Engineering

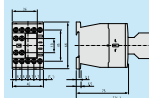
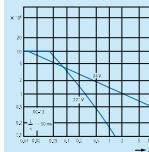
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Technical data

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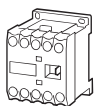


Ordering

Rated operational current AC-15		Conventional free air thermal current	Contact N/O = normally open contact NC = normally closed contact	Distinctive number	Circuit symbol	For use with
220 V	380 V					
230 V	400 V	I_{th}				
240 V	415 V					
I_e	I_e	I_{th}				
A	A					

DILER mini contactor relays

Screw terminals



6	3	10	4 N/O	–	40E		DILE...
			3 N/O	1 NC	31E		DILE...
			2 N/O	2 NC	22E		DILE...

Notes

Coil terminal marking as specified in EN 50005
Contact numbers to EN 50011
The following applies to DC-operated contactors:

- Integrated diode-resistor combination
- Coil rating 2.6 W

Information relevant for export to North America


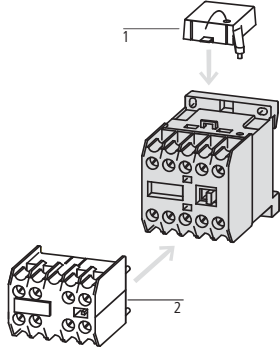


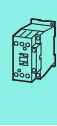
Product Standards

UL File No.
UL CCN
CSA File No.
CSA Class No.
NA Certification

IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05;
CE marking
E29184
NKCR
012528
3211-03
UL Listed,
CSA certified

HPL05003EN

AC operation		DC operation		Std. pack	Notes
Part no. Article no.	Price See price list	Part no. Article no.	Price See price list		
DILER-40(230V50HZ) 051759		DILER-40-G(24VDC) 010223		5 off 	With screw terminals: 
DILER-31(230V50HZ) 051768		DILER-31-G(24VDC) 010157			
DILER-22(230V50HZ) 051777		DILER-22-G(24VDC) 010042			
					Accessories 1 Suppressor → 5/8 2 Auxiliary contact modules → 5/6 Further actuating voltages → 5/70

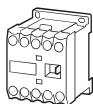


Rated operational current	Max. motor rating for three-phase motors, 50 - 60 Hz						Conventional thermal current $I_{th} = I_e$ AC-1 at 50 °C		Contact	Circuit symbol	For use with
	AC-3	AC-3			AC-4						
380 V 400 V I_e	220 V 230 V P	380 V 400 V P	660 V 690 V P	220 V 230 V P	380 V 400 V P	660 V 690 V P	Open $I_{th} = I_e$	Enclosed $I_{th} = I_e$	N/O = normally open contact NC = normally closed contact		
A	kW	kW	kW	kW	kW	kW	A	A			

DILEM contactors

3 pole with auxiliary contact

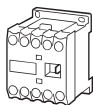
Screw terminals



6.6	1.5	3	3	1.1	2.2	2.2	20	16	1 N/O	–		...DILEM DILE...
6.6	1.5	3	3	1.1	2.2	2.2	20	16	–	1 NC		DILE...
9	2.2	4	4	1.5	3	3	20	16	1 N/O	–		...DILEM DILE...
9	2.2	4	4	1.5	3	3	20	16	–	1 NC		DILE...
12	3.5	5.5	6.5	2	3	2.2	20	16	1 N/O	–		...DILEM DILE...
12	3.5	5.5	6.5	2	3	2.2	20	16	–	1 NC		DILE...

4 pole

Screw terminals



9	2.2	4	4	1.5	3	3	20	16	–	–		...DILEM DILE...
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1)

Information relevant for export to North America



Product Standards

IEC/EN 60947-4-1;
UL 508; CSA-C22.2
No. 14-05; CE marking
UL File No. E29096
UL CCN NLDX
CSA File No. 012528
CSA Class No. 3211-04
NA Certification UL Listed, CSA certified
See also → Page 5/84

2)

Information relevant for export to North America


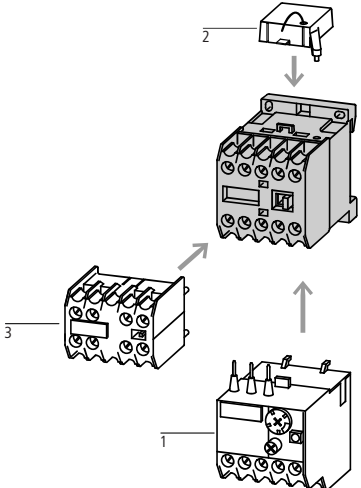



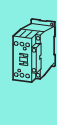
Product Standards

IEC/EN 60947-4-1;
UL 508; CSA-C22.2 No. 14-05; CE marking
UL File No. E29096
UL CCN NLDX
CSA File No. 012528
CSA Class No. 2411-03, 3211-04
NA Certification UL Listed, request filed for CSA

HPL05005EN

DILEM

AC operation		DC operation		Std. pack	Notes
Part no. Article no.	Price See price list	Part no. Article no.	Price See price list		
DILEEM-10(230V50HZ)¹⁾ 051608		DILEEM-10-G(24VDC)¹⁾ 051643		5 off 	With screw terminals: 
DILEEM-01(230V50HZ)¹⁾ 051633		DILEEM-01-G(24VDC)¹⁾ 051650			
DILEM-10(230V50HZ)¹⁾ 051786		DILEM-10-G(24VDC)¹⁾ 010213			
DILEM-01(230V50HZ)¹⁾ 051795		DILEM-01-G(24VDC)¹⁾ 010343			
DILEM12-10(230V50HZ)²⁾ 127075		DILEM12-10-G(24VDC)²⁾ 127132			
DILEM12-01(230V50HZ)²⁾ 127091		DILEM12-01-G(24VDC)²⁾ 127137			
DILEM4(230V50HZ)¹⁾ 051804		DILEM4-G(24VDC)¹⁾ 012701		5 off 	Accessories 1 Overload relay → Chapter 6 2 Suppressor → 5/8 3 Auxiliary contact module → 5/6 Enclosures totally insulated Further actuating voltages → 5/70 Accessories → 5/8



Contact	Rated operational current		Conventional thermal current I_{th} A	Distinctive number/type of combinations with basic device		
	AC-15			DILER-40(-G)	DILER-31(-G)	DILER-22
N/O = normally open contact	220 V	380 V	A	-	-	-
S _F = NO early-make	230 V	400 V				
NC = normally closed contact	240 V	415 V				
Ö _S = NC late-break	I_e	I_e				
	A	A				

Auxiliary contact modules

Screw terminals

















2 pole	-	-	2 NC	-	4	2	10	-	-	-
	1 N/O	-	1 NC	-	4	2	10	-	-	-
4 pole	2 N/O	-	2 NC	-	4	2	10	-	-	-
2 pole	-	-	2 NC	-	4	2	10	42E	33	24
	1 N/O	-	1 NC	-	4	2	10	51E	42	33
	2 N/O	-	-	-	4	2	10	60E	51	42
	-	1 S _F	-	1 Ö _S	4	2	10	51	42	33
4 pole	-	-	4 NC	-	4	2	10	44E	35	26
	1 N/O	-	3 NC	-	4	2	10	53E	44	35
	2 N/O	-	2 NC	-	4	2	10	62E	53	44
	3 N/O	-	1 NC	-	4	2	10	71E	62	53
	4 N/O	-	-	-	4	2	10	80E	71	62
	1 N/O	1 S _F	1 NC	1 Ö _S	4	2	10	62	53	44

Information relevant for export to North America



Product Standards	IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking
UL File No.	E29184
UL CCN	NKCR
CSA File No.	012528
CSA Class No.	3211-03
NA Certification	UL Listed, CSA certified

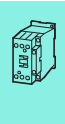
Circuit symbol	Can be combined with contactor	Part no. Article no.	Price See price list	Std. pack	Notes
	DILEM-10(-G)(...) DILEM-4(-G)(...) DILEEM-10(-G)(...) DILEM12-10(-G)(...)	02DILEM 010064		5 off 	With interlocked opposing contacts
		11DILEM 010080			
		22DILEM 010112			
		02DILE 010240			
		11DILE 010224			
		20DILE 010208			
		11DDILE 049824			
		04DILE 010256			
		13DILE 002397			
		22DILE 010288			
	31DILE 048912				
	40DILE 010304				
	22DDILE 049823				











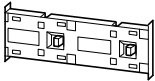


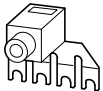


The following applies to ...DILEM auxiliary contacts:
 • Contacts to EN 50012
 The following applies to ...DILE auxiliary contacts:
 • Contacts to EN 50005

Contacts according to EN50012 are to be preferred. Type E combinations comply with EN 50011 and are to be given preference.

No interlocked opposing contacts in NO early-makes and NC late-breaks.

With interlocked opposing contacts



Actuating voltage U _s V AC	Circuit symbol	For use with	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America 
Suppressor circuits						
Varistor suppressor						
	24 - 48 AC 110 - 250 AC 380 - 415 AC		DILE...	VGDILE48 010320 VGDILE250 010336 VGDILE415 010463	10 off 	Product Standards IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking UL File No. E29096 UL CCN NLDX CSA File No. 012528 CSA Class No. 3211-03 NA Certification UL Listed, CSA certified
RC-Suppressor						
	24 - 48 AC 110 - 250 AC		DILE...	RCDILE48 044264 RCDILE250 046320	10 off  10 off 	Product Standards IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking UL File No. E29184 UL CCN NKCR2 CSA File No. - NA Certification UL Recognized
Notes For AC operated contactors 50 - 60 Hz. DC operated contactor relays have an integrated suppressor. Note drop-out delay.						
Mechanical interlocks						
For mechanical connection of contactor and timing relays in combinations. 0 mm distance between contactors.						
			DILE... DILET...	VODILE 026634	50 off 	UL/CSA certification not required
Mechanical interlock						
For contactors with the same or different magnet system. 0 mm distance between contactors. Mechanical lifespan 2.5 x 10 ⁶ operations. Additional auxiliary contact modules possible.						
			DILE...	MVDILE 010113	5 off 	Product Standards IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking UL File No. E29184 UL CCN NKCR2 CSA File No. 012528 CSA Class No. 3211-07 NA Certification UL Recognized, CSA certified
Paralleling link						
For parallel connection of contacts						
			DILE... DILE...	BT480 ²⁾ 052785	100 off	Product Standards IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking UL File No. E29096 UL CCN NLDX CSA File No. 012528 CSA Class No. 3211-07 NA Certification UL Listed, CSA certified
Consisting of two four-pole paralleling links.						
			DILEEM DILEM12 DILEM	P1DILEM ²⁾ 019095	5 off 	UL Listed, CSA certified

Notes

¹⁾ Not protected against accidental contact as specified in VDE 0106 Part 100.


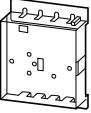


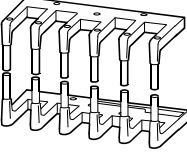

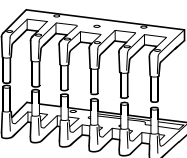

²⁾ 4th pole can be broken off

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 VDE 0106 Part 100

Contact sequence	For use with	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America 
Sealable shrouds					
Transparent Snap-fitting on contactor. Can be used with open installation or on service distribution board. Protection type: IP40 front Can be drilled to accommodate timing relay setting dials.					
	DILE... DILET...	HDILE 010482		1 off 	UL/CSA certification not required
Start-point bridge					
	DILEEM DILEM12 DILEM	S1DILEM¹⁾ 220218		20 off	
Reversing starter wiring kit					
Main current wiring for reversing combinations					
	DILEEM (+MVDILEM) DILEM12 (+MVDILEM) DILEM (+MVDILEM)	MVS-WB-EM²⁾ 220209		1 off 	Product Standards IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking UL File No. E36332 UL CCN NLRV7 CSA File No. 012528 CSA Class No. 3211-06 NA Certification UL Listed, CSA certified
Star-delta wiring kit					
Main current wiring for star-delta combination incl. star-point bridge					
	DILE(E)M (+MVDILEM) DILE(E)M12 (+MVDILEM) DILE(E)M star contactor	MVS-SB-EM³⁾ 220213		1 off 	Product Standards IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking UL File No. E36332 UL CCN NLRV7 CSA File No. 012528 CSA Class No. 3211-06 NA Certification UL Listed, CSA certified

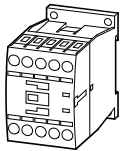
Notes

- ¹⁾ Protected against accidental contact in accordance with VDE 0106 Part 100
- ²⁾ The following control cables are integrated in addition to electrical interlock:
 - Q11: A1 - Q12: 21
 - Q11: 21 - Q12: A1
 - Q11: A2 - Q12: A2
 For use with overload relay separate mounting.
- ³⁾ The following control cables are integrated in addition to electrical interlock:
 - Q13: A1 - Q15: 21
 - Q13: 21 - Q15: A1
 - Q13: A2 - Q15: A2
 For use with overload relay separate mounting.

Contact		Rated operational current		Conventional thermal current	Distinctive number	Can be combined with auxiliary contact	Circuit symbol
N/O = normally open contact	NC = normally closed contact	AC-15		I_{th}			
		220 V	380 V	A			
		230 V	400 V				
		240 V	415 V				
		I_e	I_e				
		A	A				

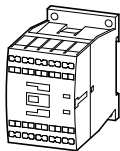
Basic devices with positively driven contacts

Screw terminals



4 N/O	—	4	4	16	40E	DILA-XHI(V)...	
3 N/O	1 NC				31E	DILA-XHI(V)...	
2 N/O	2 NC				22E	DILA-XHI(V)...	

Spring-loaded terminals



4 N/O	—	4	4	16	40E	DILA-XHIC(V)...	
3 N/O	1 NC				31E	DILA-XHIC(V)...	
2 N/O	2 NC				22E	DILA-XHIC(V)...	

Notes

Contact numbers to EN 50011
 Coil terminal markings to EN 50005
 The following applies to DC-operated contactors:


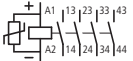

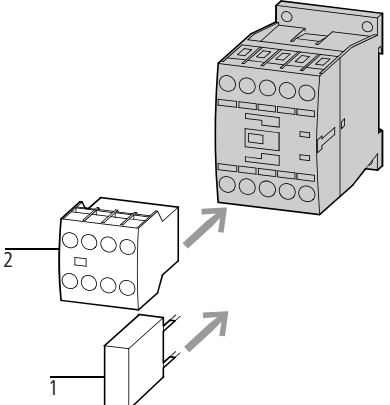

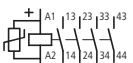

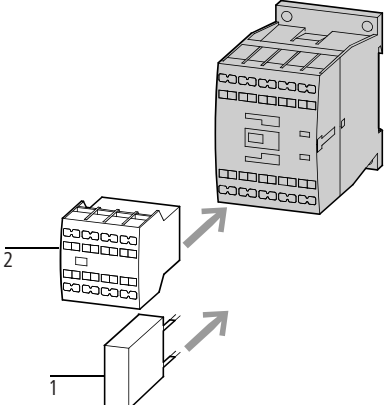
- Integrated suppressor circuit

Information relevant for export to North America



Product Standards IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking
 UL File No. E29184
 UL CCN NKCR
 CSA File No. 012528
 CSA Class No. 3211-03
 NA Certification UL Listed, CSA certified

HPL05011EN

AC operation		Std. pack	Circuit symbol	DC operation		Std. pack	Notes
Part no. Article no.	Price See price list			Part no. Article no.	Price See price list		
DILA-40(230V50HZ) 276329	1 off 		DILA-40(24VDC) 276344	1 off 	With screw terminals: 	Accessories 1 Suppressor → 5/54 2 Auxiliary contact modules → 5/38 Further actuating voltages → 5/72	
DILA-31(230V50HZ) 276364			DILA-31(24VDC) 276379				
DILA-22(230V50HZ) 276399			DILA-22(24VDC) 276414				
DILAC-40(230V50HZ) 276441	1 off 		DILAC-40(24VDC) 276456	1 off 	With spring-loaded terminals: 	Accessories 1 Suppressor → 5/54 2 Auxiliary contact modules → 5/38 Further actuating voltages → 5/72	
DILAC-31(230V50HZ) 276473			DILAC-31(24VDC) 276488				
DILAC-22(230V50HZ) 276505			DILAC-22(24VDC) 276520				



Contact	Rated operational current		Conventional thermal current	Circuit symbol
N/O = normally open contact S _F = NO early-make NC = normally closed contact Ö _S = NC late-break	AC-15		I _{th}	
	220 V	380 V		
	230 V	400 V		
	240 V	415 V		
	I _e	I _e	A	

DILA auxiliary contact modules

Screw terminals



Pole	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
2 pole	-	-	2 NC	-	4	4	16																																																																																													
	1 N/O	-	1 NC	-	4	4	16																																																																																													
	2 N/O	-	-	-	4	4	16																																																																																													
	-	1 S _F	-	1 Ö _S	4	4	16																																																																																													



4 pole	-	-	4 NC	-	4	4	16	
	1 N/O	-	3 NC	-	4	4	16	
	2 N/O	-	2 NC	-	4	4	16	
	3 N/O	-	1 NC	-	4	4	16	
	4 N/O	-	-	-	4	4	16	
	1 N/O	1 S _F	1 NC	1 Ö _S	4	4	16	

Spring-loaded terminals



2 pole	-	-	2 NC	-	4	4	16	
	1 N/O	-	1 NC	-	4	4	16	
	2 N/O	-	-	-	4	4	16	
	-	1 S _F	-	1 Ö _S	4	4	16	



4 pole	-	-	4 NC	-	4	4	16	
	1 N/O	-	3 NC	-	4	4	16	
	2 N/O	-	2 NC	-	4	4	16	
	3 N/O	-	1 NC	-	4	4	16	
	4 N/O	-	-	-	4	4	16	
	1 N/O	1 S _F	1 NC	1 Ö _S	4	4	16	



Information relevant for export to North America

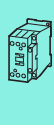


Product Standards	IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking
UL File No.	E29184
UL CCN	NKCR
CSA File No.	012528
CSA Class No.	3211-03
NA Certification	UL Listed, CSA certified

DILA...XHI...

HPL05013EN

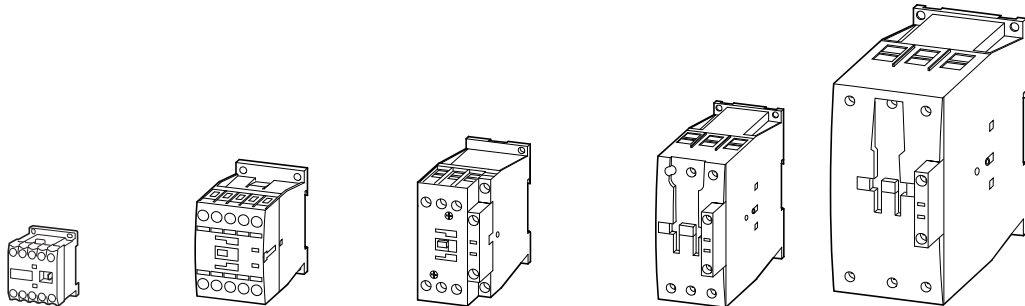
Distinctive number/type of combinations			Part no.	Price	Std. pack	Description	Notes
DILA(C)-40	DILA(C)-31	DILA(C)-22	Article no.	See price list			
42E	33	24	DILA-XHI02 276420		5 off 	With interlocked opposing contacts	Type E combinations comply with EN 50011 and must be given preference. The other combinations comply with EN 50005. The DC operated contactor DILA(C)-22 must only be combined with 2 pole auxiliary contacts.
51E	42	33	DILA-XHI11 276421				
60E	51	42	DILA-XHI20 276422				
51	42	33	DILA-XHIV11 276423			-	
44E	35	26	DILA-XHI04 276424			With interlocked opposing contacts	
53E	44	35	DILA-XHI13 276425				
62E	53	44	DILA-XHI22 276426				
71E	62	53	DILA-XHI31 276427				
80E	71	62	DILA-XHI40 276428				
62	53	44	DILA-XHIV22 276429			-	
42E	33	24	DILA-XHIC02 276526		5 off 	With interlocked opposing contacts	Type E combinations comply with EN 50011 and must be given preference. The other combinations comply with EN 50005. The DC operated contactor DILA(C)-22 must only be combined with 2 pole auxiliary contacts.
51E	42	33	DILA-XHIC11 276527				
60E	51	42	DILA-XHIC20 276528				
51	42	33	DILA-XHICV11 276529			-	
44E	35	26	DILA-XHIC04 276530			With interlocked opposing contacts	
53E	44	35	DILA-XHIC13 276531				
62E	53	44	DILA-XHIC22 276532				
71E	62	53	DILA-XHIC31 276533				
80E	71	62	DILA-XHIC40 276534				
62	53	44	DILA-XHICV22 276535			-	



DILM, DILE(E)M, DILMP

Technical overview

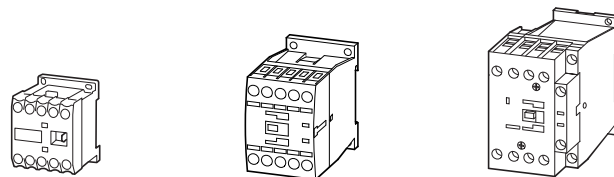
Contactors
3 pole



DIL		EEM	EM	EM12	M7	M9	M12	M15	M17	M25	M32	M38	M40	M50	M65	M80	M95	M115	M150	M170
Basic devices	Page	→ 5/4			→ 5/18			→ 5/18			→ 5/20			→ 5/50						
Complete units	Page	-			→ Page 5/24			-			→ Page 5/24			→ Page 5/26			→ Page 5/26			

Rated-operational voltage	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
AC-3																				
Rated operational power for 3-phase motors 50–60 Hz																				
220 V – 230 V	1.5	2.2	3	2.2	2.5	3.5	4	5	7.5	10	11	12.5	15.5	20	25	30	37	48	52	
380 V – 400 V	3	4	5.5	3	4	5.5	7.5	7.5	11	15	18.5	18.5	22	30	37	45	55	75	90	
440 V	3.3	4.6	5.5	4.5	5.5	7.5	8.4	10.5	15.5	20	21	25	32	41	51	60	75	95	105	
500 V	3	4	5.5	3.5	4.5	7	7.5	12	17.5	23	24	28	36	47	58	70	85	110	120	
660 V/690 V	3	4	4	3.5	4.5	6.5	7	11	14	17	21	23	30	35	63	75	90	96	140	
1000 V	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AC-4																				
▲ Increase in life span for DILM7 – DILM150 to 200000 operations																				
Rated operational power for 3-phase motors 50–60 Hz																				
220 V – 230 V	1.1	1.5	1.5	1	1.5	2	2	2.5	3.5	4	4	5	6	7	12	16	17	20	20	
380 V – 400 V	2.2	3	3	2.2	2.5	3	3	4.5	6	7	7	9	10	12	20	26	28	33	33	
440 V	2.4	3.3	3.3	2.4	3	3.6	3.6	5.5	7	8	8	10	12	14	25	32	35	41	41	
500 V	2.2	3	3	2.5	2.8	3.5	3.5	6	8	9	9	11	13	16	29	36	40	47	47	
660 V/690 V	2.2	3	3	2.9	3.6	4.4	4.4	6.5	8.5	10	10	12	14	17	26	35	43	48	48	
1000 V	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AC-1																				
Rated operational power under resistive load, 40 °C																				
220 V – 230 V	8	8	8	8	8	8	8	15	17	17	17	22	30	37	42	49	61	72	85	
380 V – 400 V	13	13	13	14	14	14	14	26	29	29	29	39	53	65	72	85	105	125	150	
440 V	15	15	15	16	16	16	16	30	34	34	34	45	58	71	80	94	116	138	170	
500 V	18	18	18	19	19	19	19	34	38	38	38	51	66	81	90	107	132	156	194	
660 V/690 V	23	23	23	25	25	25	25	45	51	51	51	68	91	111	125	148	182	216	268	
1000 V	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conventional thermal Current	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
$I_{th} = I_e$ open at 40 °C	22	22	22	22	22	22	22	40	45	45	45	60	80	98	110	130	160	190	225	

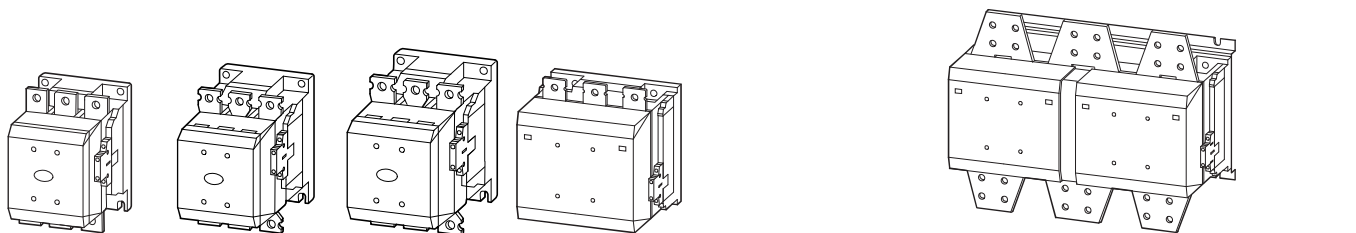
Contactors
4 pole



	DIL	EM4	MP20	MP32
Rated operational voltage	Page	→ 5/4	→ Page 5/36	→ Page 5/36
AC-1				
Conventional free air thermal current $I_{th} = I_e$ open, at 40 °C		A	A	A
up to 690 V		22	22	32

DILM, DILH, DILMP

Contactors
3 pole



M185A M225A M250 M300A M400 M500 M580 M650 M750 M820 M1000 M1600 H1400 H2000 H2200 H2600

→ Page 5/32 → Page 5/32 → Page 5/32 → Page 5/32 → Page 5/34

kW kW kW kW kW kW kW kW kW kW kW kW kW kW kW kW

55	70	75	90	125	155	185	205	240	260	315	500	-	-	-	-
90	110	132	160	200	250	315	355	400	450	560	900	-	-	-	-
115	142	157	190	255	345	370	420	480	525	650	1000	-	-	-	-
132	160	180	215	290	360	420	470	550	600	730	1180	-	-	-	-
175	215	240	286	344	344	560	630	720	750	1000	1600	-	-	-	-
108	108	108	132	132	132	600	600	800	800	1000	1770	-	-	-	-

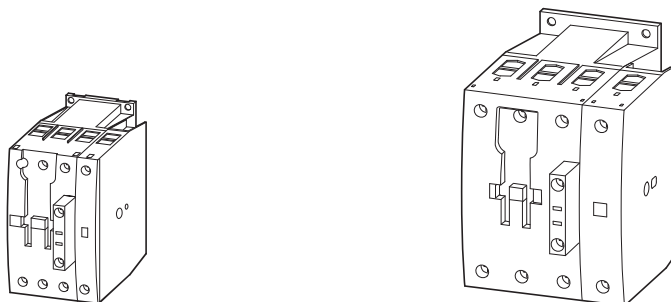
41	51	62	75	92	112	143	161	181	209	260	430	-	-	-	-
75	90	110	132	160	200	250	280	315	355	450	750	-	-	-	-
85	102	125	140	186	229	290	326	367	418	520	830	-	-	-	-
96	116	143	172	214	260	330	370	417	474	590	940	-	-	-	-
127	155	189	229	283	344	440	494	556	633	780	1300	-	-	-	-
108	108	108	132	132	132	509	509	678	678	1000	1650	-	-	-	-

121	139	155	177	221	310	354	376	398	443	443	717	620	886	1075	1269
210	241	268	306	382	535	612	650	689	766	766	1247	1071	1531	1870	2207
243	279	310	354	443	620	709	753	797	886	886	1371	1240	1773	2058	2427
277	317	352	403	503	705	806	856	906	1007	1007	1558	1410	2015	2338	2758
365	419	465	532	664	930	1064	1130	1196	1330	1330	2151	1861	2660	3227	3806
554	635	705	806	1007	1410	1612	1712	1813	2015	2015	2420	2417	3223	4676	5516

A A A A A A A A A A A A A A A

337	356	400	430	612	857	980	1041	1102	1225	1225	2200	1714	2450	2700	3185
-----	-----	-----	-----	-----	-----	-----	------	------	------	------	------	------	------	------	------

Contactors
4 pole



MP45 MP63 MP80 MP125 MP160 MP200

→ Page 5/36 → Page 5/36 → Page 5/36

A	A	A	A	A	A
45	63	80	125	160	200

DILM7...DILM170

System overview

Contactors up to 90 kW (AC-3/400 V) 1

3 pole → Page 5/18

4 pole → Page 5/36

Suppressor circuits 2
→ Page 5/54

Overload relays 3
→ Page 6/8

Auxiliary contact modules 4
→ Page 5/38

Auxiliary contact modules 5
→ Page 5/38

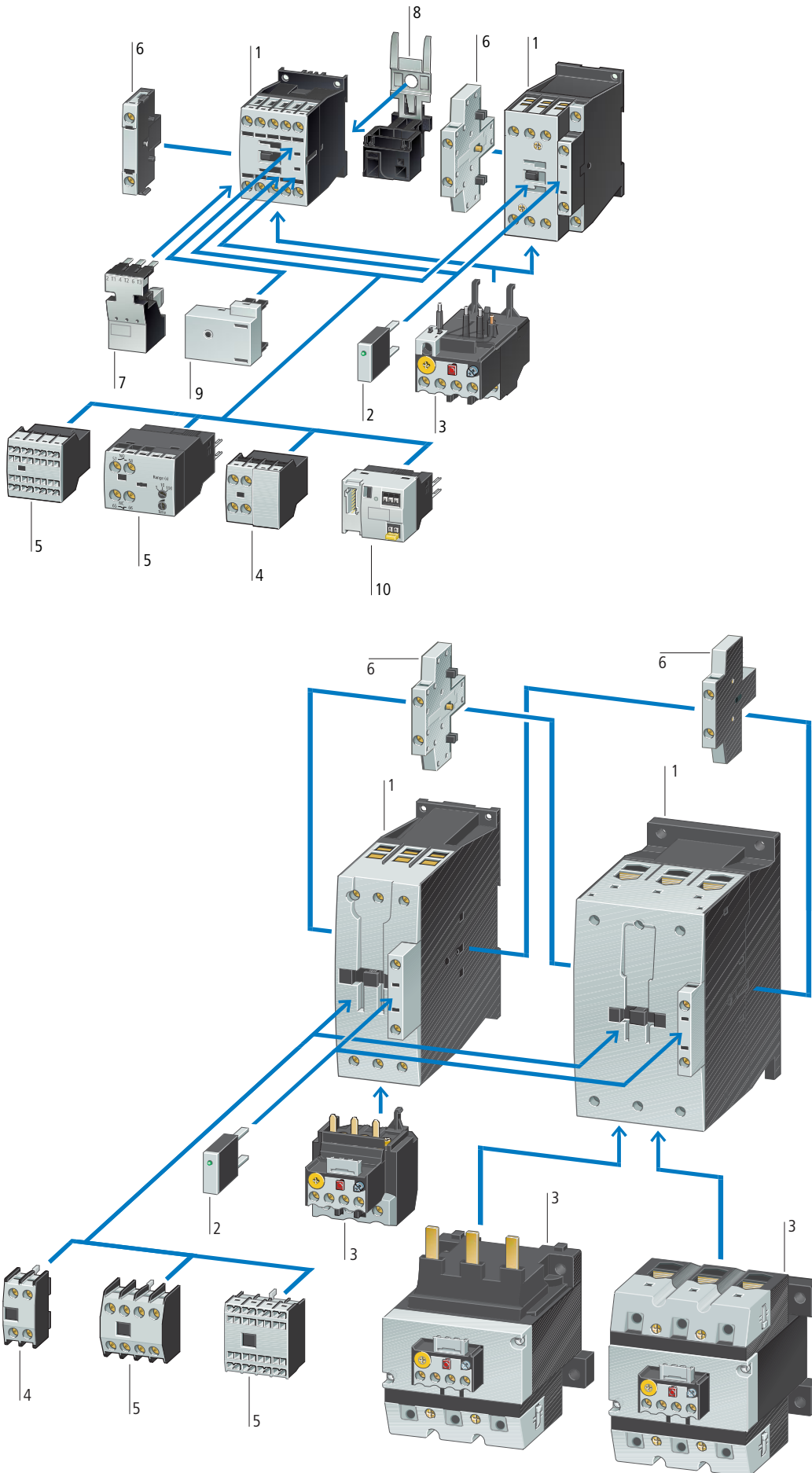
Auxiliary contact modules 6
→ Page 5/41

Motor feeder plug 7
→ Page 5/62

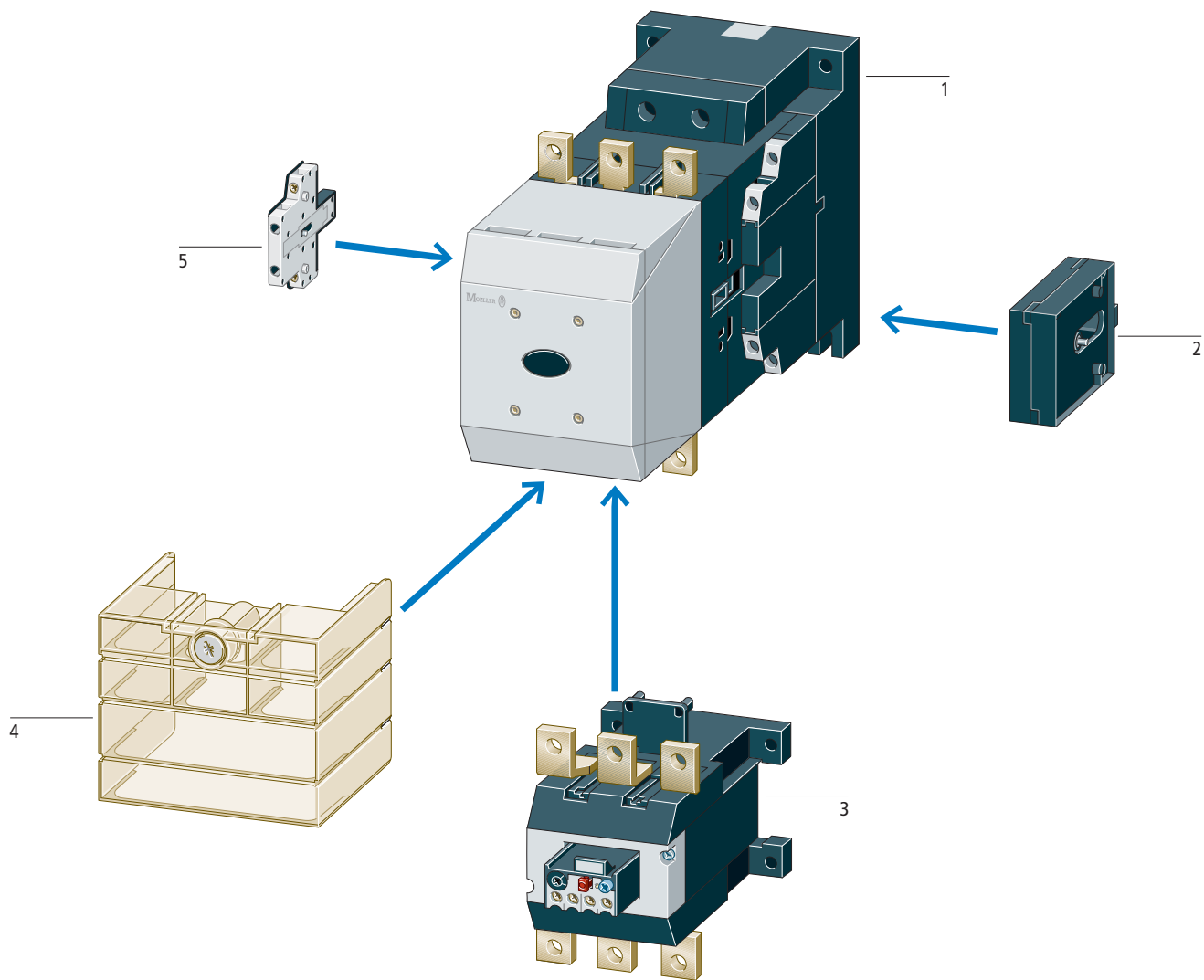
PE module with contact plate 8
→ Page 5/62

Motor suppressor module
→ Page 5/63

SmartWire-Darwin contactor module 10
→ Page 5/62



DILM185... DILH2600



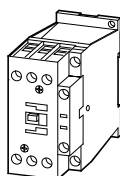
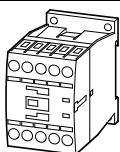
Contactors 90 – 900 kW (AC-3/400 V) Comfort series	1	Mechanical interlock	2	Terminal shroud	4
→ Page 5/32		→ Page 5/56		→ Page 5/65	
Standard range 90 – 250 kW	1	Overload relays	3	Auxiliary contact modules	5
→ Page 5/30		→ Page 6/12		→ Page 5/41	

Rated operational current	Max. motor rating for three-phase motors 50 - 60 Hz						Conventional thermal current $I_{th} = I_e$ AC-1 at 60 °C	Contact configuration	Circuit symbol
AC-3	AC-3		AC-3		AC-4		Open	N/O = normally open contact NC = normally closed contact	
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_e A	P kW	P kW	P kW	P kW	P kW	P kW	$I_{th} = I_e$ A		

Basic device

Screw terminals

3 pole


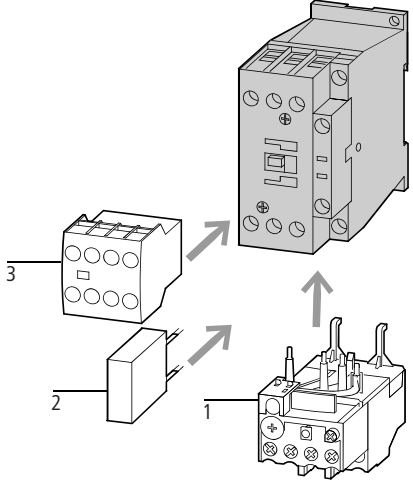


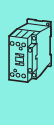
7	2.2	3	3.5	1	2.2	2.9	20	1 N/O	–	
7	2.2	3	3.5	1	2.2	2.9	20	–	1 NC	
9	2.5	4	4.5	1.5	2.5	3.6	20	1 N/O	–	
9	2.5	4	4.5	1.5	2.5	3.6	20	–	1 NC	
12	3.5	5.5	6.5	2	3	4.4	20	1 N/O	–	
12	3.5	5.5	6.5	2	3	4.4	20	–	1 NC	
15.5	4	7.5	7	2	3	4.4	20	1 N/O	–	
15.5	4	7.5	7	2	3	4.4	20	–	1 NC	
18	5	7.5	11	2.5	4.5	6.5	35	1 N/O	–	
18	5	7.5	11	2.5	4.5	6.5	35	–	1 NC	
25	7.5	11	14	3.5	6	8.5	40	1 N/O	–	
25	7.5	11	14	3.5	6	8.5	40	–	1 NC	
32	10	15	17	4	7	10	40	1 N/O	–	
32	10	15	17	4	7	10	40	–	1 NC	
38	11	18.5	21	4	7	10	40	1 N/O	–	
38	11	18.5	21	4	7	10	40	–	1 NC	

Information relevant for export to North America



Product Standards	IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking
UL File No.	E29096
UL CCN	NLDX
CSA File No.	012528
CSA Class No.	2411-03, 3211-04
NA Certification	UL Listed, CSA certified
See also	→ Page 5/84

Can be combined with auxiliary contact	AC operation		DC operation		Std. pack	Notes
	Part no. Article no.	Price See price list	Part no. Article no.	Price See price list		
DILM32-XHI.. DILA-XHI(V)..	DILM7-10(230V50HZ) 276550		DILM7-10(24VDC) 276565		1 off 	<p>Contacts to EN 50 012.</p> <p>For all DC operated contactors DILM7 - DILM15 the following applies:</p> <ul style="list-style-type: none"> • Integrated varistor-suppressor circuit. <p>For DC operated contactors DILM17 - DILM170 the following applies:</p> <ul style="list-style-type: none"> • Integrated suppressor circuit in actuating electronics <p>For AC operated contactors DILM115 - DILM170 the following applies:</p> <ul style="list-style-type: none"> • Integrated suppressor circuit in actuating electronics <p>For DILM7-01 – DILM38-01 the following applies:</p> <ul style="list-style-type: none"> • With mirror contact. <p>¹⁾ Electrical lifespan → 5/91</p>
DILA-XHI(V)..	DILM7-01(230V50HZ) 276585		DILM7-01(24VDC) 276600			
DILM32-XHI.. DILA-XHI(V)..	DILM9-10(230V50HZ) 276690		DILM9-10(24VDC) 276705			
DILA-XHI(V)..	DILM9-01(230V50HZ) 276725		DILM9-01(24VDC) 276740			
DILM32-XHI.. DILA-XHI(V)..	DILM12-10(230V50HZ) 276830		DILM12-10(24VDC) 276845			<p>Accessories</p> <p>1 Overload relay → Chapter 6</p> <p>2 Suppressor → 5/54</p> <p>3 Auxiliary contact module → 5/38</p> <p>Further actuating voltages → 5/73</p> <p>Accessories → 5/56</p>
DILA-XHI(V)..	DILM12-01(230V50HZ) 276865		DILM12-01(24VDC) 276880			
DILM32-XHI.. DILA-XHI(V)..	DILM15-10(230V50HZ)¹⁾ 290058		DILM15-10(24VDC)¹⁾ 290073			
DILA-XHI(V)..	DILM15-01(230V50HZ)¹⁾ 290093		DILM15-01(24VDC)¹⁾ 290108			
DILM32-XHI.. DILA-XHI(V).. DILM32-XHI11-S	DILM17-10(230V50HZ) 277004		DILM17-10(RDC24) 277018			
DILA-XHI(V).. DILM32-XHI11-S	DILM17-01(230V50HZ) 277036		DILM17-01(RDC24) 277050			
DILM32-XHI.. DILA-XHI(V).. DILM32-XHI11-S	DILM25-10(230V50HZ) 277132		DILM25-10(RDC24) 277146			
DILA-XHI(V).. DILM32-XHI11-S	DILM25-01(230V50HZ) 277164		DILM25-01(RDC24) 277178			
DILM32-XHI.. DILA-XHI(V).. DILM32-XHI11-S	DILM32-10(230V50HZ) 277260		DILM32-10(RDC24) 277274			
DILA-XHI(V).. DILM32-XHI11-S	DILM32-01(230V50HZ) 277292		DILM32-01(RDC24) 277306			
DILM32-XHI.. DILA-XHI(V).. DILM32-XHI11-S	DILM38-10(230V50HZ)¹⁾ 112428		DILM38-10(RDC24)¹⁾ 112442			
DILA-XHI(V).. DILM32-XHI11-S	DILM38-01(230V50HZ)¹⁾ 112456		DILM38-01(RDC24)¹⁾ 112470			

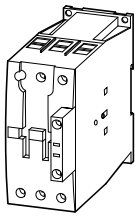


Rated operational current	Max. motor rating for three-phase motors 50 - 60 Hz						Conventional thermal current $I_{th} = I_e$ AC-1 at 60 °C	Contact configuration	Circuit symbol
AC-3 380 V 400 V	AC-3 220 V 230 V	380 V 400 V	660 V 690 V	AC-4 220 V 230 V	380 V 400 V	660 V 690 V	Open	N/O = normally open contact NC = normally closed contact	
I_e A	P kW	P kW	P kW	P kW	P kW	P kW	$I_{th} = I_e$ A		

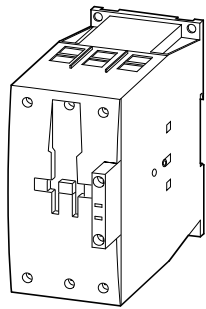
Basic device

Screw terminals

3 pole




40	12.5	18.5	23	5	9	12	50	-	-	
50	15.5	22	30	6	10	14	65	-	-	
65	20	30	35	7	12	17	80	-	-	
72	25	37	35	7	12	17	80	-	-	
80	25	37	63	12	20	26	90	-	-	
95	30	45	75	16	26	35	110	-	-	
115	37	55	90	17	28	43	130	-	-	
150	48	75	96	20	33	48	160	-	-	
170	52	90	140	20	33	48	185	-	-	

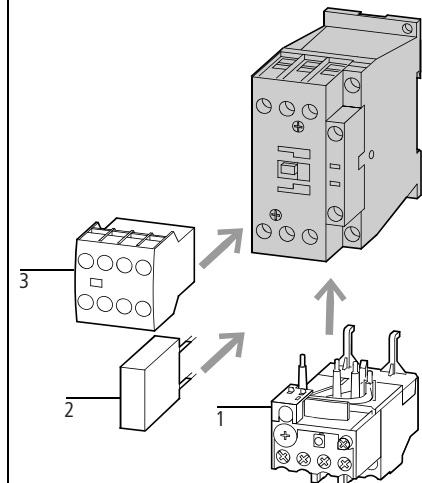
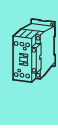


Information relevant for export to North America



Product Standards	IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking
UL File No.	E29096
UL CCN	NLDX
CSA File No.	012528
CSA Class No.	2411-03, 3211-04
NA Certification	UL Listed, CSA certified
See also	→ Page 5/84

Can be combined with auxiliary contact	AC operation		DC operation		Std. pack	Notes
	Part no. Article no.	Price See price list	Part no. Article no.	Price See price list		
DILM150-XHI(V).. DILM1000-XHI(V)..	DILM40(230V50HZ) 277766		DILM40(RDC24) 277780		1 off  Contacts to EN 50012. For all DC operated contactors DILM7 - DILM15 the following applies: • Integrated varistor-suppressor circuit. For DC operated contactors DILM17 - DILM170 the following applies: • Integrated suppressor circuit in actuating electronics For AC operated contactors DILM115 - DILM170 the following applies: • Integrated suppressor circuit in actuating electronics For DILM7-01 – DILM38-01 the following applies: • With mirror contact. 1) Electrical lifespan → 5/91	
DILM150-XHI(V).. DILM1000-XHI(V)..	DILM50(230V50HZ) 277830		DILM50(RDC24) 277844			
DILM150-XHI(V).. DILM1000-XHI(V)..	DILM65(230V50HZ) 277894		DILM65(RDC24) 277908			
DILM150-XHI(V).. DILM1000-XHI(V)..	DILM72(230V50HZ)¹⁾ 107670		DILM72(RDC24)¹⁾ 107671			
DILM150-XHI(V).. DILM1000-XHI(V)..	DILM80(230V50HZ) 239402		DILM80(RDC24) 239416			
DILM150-XHI(V).. DILM1000-XHI(V)..	DILM95(230V50HZ) 239480		DILM95(RDC24) 239510			
DILM150-XHI(V).. DILM1000-XHI(V)..	DILM115(RAC240) 239548		DILM115(RDC24) 239555			
DILM150-XHI(V).. DILM1000-XHI(V)..	DILM150(RAC240) 239588		DILM150(RDC24) 239591			
DILM150-XHI(V).. DILM1000-XHI(V)..	DILM170(RAC240)¹⁾ 107013		DILM170(RDC24)¹⁾ 107016			

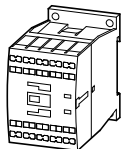


- | | |
|----------------------------|-------------|
| Accessories | Page |
| 1 Overload relay | → Chapter 6 |
| 2 Suppressor | → 5/54 |
| 3 Auxiliary contact module | → 5/38 |
| Further actuating voltages | → 5/75 |
| Accessories | → 5/56 |

Rated operational current AC-3	Max. motor rating for three-phase motors 50 - 60 Hz						Conventional thermal current $I_{th} = I_e$ AC-1 at 60 °C	Contact configuration N/O = normally open contact NC = normally closed contact	Circuit symbol
	AC-3		AC-3		AC-4				
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	220 V 230 V P kW	380 V 400 V P kW	660 V 690 V P kW	Open $I_{th} = I_e$ A		

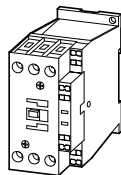
Basic device

Spring-loaded terminals
3 pole

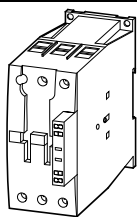


7	2.2	3	3.5	1	2.2	2.9	20	1 N/O	–	
7	2.2	3	3.5	1	2.2	2.9	20	–	1 NC	
9	2.5	4	4.5	1.5	2.5	3.6	20	1 N/O	–	
9	2.5	4	4.5	1.5	2.5	3.6	20	–	1 NC	
12	3.5	5.5	6.5	2	3	4.4	20	1 N/O	–	
12	3.5	5.5	6.5	2	3	4.4	20	–	1 NC	
15.5	4	7.5	7	2	3	4.4	20	1 N/O	–	
15.5	4	7.5	7	2	3	4.4	20	–	1 NC	

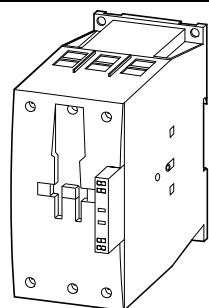
Spring-loaded terminals on auxiliary and control circuit terminals
3 pole



18	5	7.5	11	2.5	4.5	6.5	35	1 N/O	–	
18	5	7.5	11	2.5	4.5	6.5	35	–	1 NC	
25	7.5	11	14	3.5	6	8.5	40	1 N/O	–	
25	7.5	11	14	3.5	6	8.5	40	–	1 NC	
32	10	15	17	4	7	10	40	1 N/O	–	
32	10	15	17	4	7	10	40	–	1 NC	
40	12.5	18.5	23	5	9	12	50	–	–	
50	15.5	22	30	6	10	14	65	–	–	
65	20	30	35	7	12	17	80	–	–	



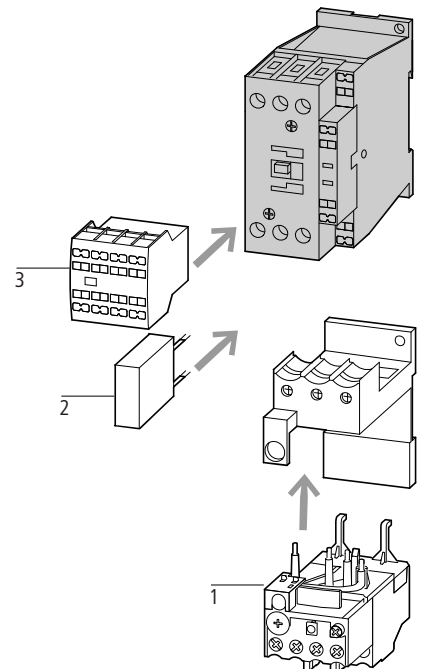
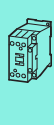
80	25	37	63	12	20	26	90	–	–	
95	30	45	75	16	26	35	110	–	–	
115	37	55	90	17	28	43	130	–	–	
150	48	75	96	20	33	48	160	–	–	



HPL05023EN

DILM

Can be combined with auxiliary contact	AC operation		DC operation		Std. pack	Notes																								
	Part no. Article no.	Price See price list	Part no. Article no.	Price See price list																										
DILM32-XHIC.. DILA-XHIC(V)..	DILMC7-10(230V50HZ) 277389		DILMC7-10(24VDC) 277404		1 off 	<p>Contacts to EN 50 012.</p> <p>For DILMC7 – DILMC15 the following applies:</p> <ul style="list-style-type: none"> Auxiliary coil, and main current terminals with spring-loaded terminals. <p>For DILMC17 – DILMC150 the following applies:</p> <ul style="list-style-type: none"> Auxiliary connections, coil connections with spring-loaded connection terminals. Main current connections with screw terminals. <p>For DC operated contactors DILMC7 - DILMC15 the following applies:</p> <ul style="list-style-type: none"> Integrated varistor-suppressor circuit. <p>For AC operated contactors DILMC17 - DILMC150 the following applies:</p> <ul style="list-style-type: none"> Integrated suppressor circuit in actuating electronics <p>For AC operated contactors DILMC115 - DILMC150 the following applies:</p> <ul style="list-style-type: none"> Integrated suppressor circuit in actuating electronics <p>For DILMC7-01 – DILMC32-01 the following applies:</p> <ul style="list-style-type: none"> With mirror contact. 																								
DILA-XHIC(V)..	DILMC7-01(230V50HZ) 277421		DILMC7-01(24VDC) 277436																											
DILM32-XHIC.. DILA-XHIC(V)..	DILMC9-10(230V50HZ) 277453		DILMC9-10(24VDC) 277468																											
DILA-XHIC(V)..	DILMC9-01(230V50HZ) 277485		DILMC9-01(24VDC) 277500																											
DILM32-XHIC.. DILA-XHIC(V)..	DILMC12-10(230V50HZ) 277517		DILMC12-10(24VDC) 277532																											
DILA-XHIC(V)..	DILMC12-01(230V50HZ) 277549		DILMC12-01(24VDC) 277564																											
DILM32-XHIC... DILA-XHIC(V)...	DILMC15-10(230V50HZ) 293911		DILMC15-10(24VDC) 293926																											
DILA-XHIC(V)...	DILMC15-01(230V50HZ) 293946		DILMC15-01(24VDC) 293961																											
DILM32-XHIC.. DILA-XHIC(V)..	DILMC17-10(230V50HZ) 277581		DILMC17-10(RDC24) 277595		1 off 	<p>Accessories</p> <table border="0"> <tr> <td>1 Overload relay</td> <td>→ Chapter 6</td> </tr> <tr> <td>2 Suppressor</td> <td>→ 5/54</td> </tr> <tr> <td>3 Auxiliary contact module</td> <td>→ 5/38</td> </tr> <tr> <td>Further actuating voltages</td> <td>→ 5/77</td> </tr> <tr> <td>Accessories</td> <td>→ 5/56</td> </tr> </table> <p>Information relevant for export to North America</p> <table border="0"> <tr> <td>Product Standards</td> <td>IEC/EN 60947-4-1; UL 5080; CSA-C22.2 No. 14-05; CE marking</td> </tr> <tr> <td>UL File No.</td> <td>E29096</td> </tr> <tr> <td>UL CCN</td> <td>NLDX</td> </tr> <tr> <td>CSA File No.</td> <td>012528</td> </tr> <tr> <td>CSA Class No.</td> <td>2411-03, 3211-04</td> </tr> <tr> <td>NA Certification</td> <td>UL Listed, CSA certified</td> </tr> <tr> <td>See also</td> <td>→ Page 5/84</td> </tr> </table>	1 Overload relay	→ Chapter 6	2 Suppressor	→ 5/54	3 Auxiliary contact module	→ 5/38	Further actuating voltages	→ 5/77	Accessories	→ 5/56	Product Standards	IEC/EN 60947-4-1; UL 5080; CSA-C22.2 No. 14-05; CE marking	UL File No.	E29096	UL CCN	NLDX	CSA File No.	012528	CSA Class No.	2411-03, 3211-04	NA Certification	UL Listed, CSA certified	See also	→ Page 5/84
1 Overload relay	→ Chapter 6																													
2 Suppressor	→ 5/54																													
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CSA Class No.	2411-03, 3211-04																													
NA Certification	UL Listed, CSA certified																													
See also	→ Page 5/84																													
DILA-XHIC(V)..	DILMC17-01(230V50HZ) 277611		DILMC17-01(RDC24) 277625																											
DILM32-XHIC.. DILA-XHIC(V)..	DILMC25-10(230V50HZ) 277641		DILMC25-10(RDC24) 277655																											
DILA-XHIC(V)..	DILMC25-01(230V50HZ) 277671		DILMC25-01(RDC24) 277685																											
DILM32-XHIC.. DILA-XHIC(V)..	DILMC32-10(230V50HZ) 277701		DILMC32-10(RDC24) 277715																											
DILA-XHIC(V)..	DILMC32-01(230V50HZ) 277731		DILMC32-01(RDC24) 277745																											
DILM150-XHIC(V).. DILM1000-XHIC..	DILMC40(230V50HZ) 277965		DILMC40(RDC24) 277979																											
	DILMC50(230V50HZ) 277995		DILMC50(RDC24) 278009																											
	DILMC65(230V50HZ) 278025		DILMC65(RDC24) 278039																											
	DILMC80(230V50HZ) 239618		DILMC80(RDC24) 239652																											
	DILMC95(230V50HZ) 239685		DILMC95(RDC24) 239715																											
	DILMC115(RAC240) 239736		DILMC115(RDC24) 239741																											
	DILMC150(RAC240) 239751		DILMC150(RDC24) 239765																											



Accessories	Page
1 Overload relay	→ Chapter 6
2 Suppressor	→ 5/54
3 Auxiliary contact module	→ 5/38
Further actuating voltages	→ 5/77
Accessories	→ 5/56

Information relevant for export to North America

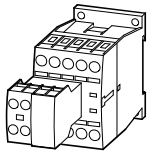


Product Standards	IEC/EN 60947-4-1; UL 5080; CSA-C22.2 No. 14-05; CE marking
UL File No.	E29096
UL CCN	NLDX
CSA File No.	012528
CSA Class No.	2411-03, 3211-04
NA Certification	UL Listed, CSA certified
See also	→ Page 5/84

Rated operational current AC-3	Max. motor rating for three-phase motors 50 - 60 Hz						Conventional free air thermal current $I_{th} = I_e$ AC-1 at 60 °C	Contact configuration: ⊕ = Safety function by positive opening according to IEC/EN 60947-5-1	Circuit symbol
	AC-3		AC-4						
380 V 400 V	220 V 230 V	380 V 400 V	660 V 690 V	220 V 230 V	380 V 400 V	660 V 690 V	Open $I_{th} = I_e$	N/O = normally open contact NC = normally closed contact	
I_e	P	P	P	P	P	P	A		
A	kW	kW	kW	kW	kW	kW			

DILM complete device

Screw terminals



7	2.2	3	3.5	1	2.2	2.9	20	2 N/O	1 NC	
7	2.2	3	3.5	1	2.2	2.9	20	2 N/O	1 NC	
7	2.2	3	3.5	1	2.2	2.9	20	3 N/O	2 NC	
9	2.5	4	4.5	1.5	2.5	3.6	20	2 N/O	1 NC	
9	2.5	4	4.5	1.5	2.5	3.6	20	2 N/O	1 NC	
9	2.5	4	4.5	1.5	2.5	3.6	20	3 N/O	2 NC	
12	3.5	5.5	6.5	2	3	4.4	20	2 N/O	1 NC	
12	3.5	5.5	6.5	2	3	4.4	20	2 N/O	1 NC	
12	3.5	5.5	6.5	2	3	4.4	20	3 N/O	2 NC	
15.5	4	7.5	7	2	3	4.4	20	2 N/O	2 NC	
18	5	7.5	11	2.5	4.5	6.5	35	2 N/O	1 NC	
18	5	7.5	11	2.5	4.5	6.5	35	2 N/O	1 NC	
18	5	7.5	11	2.5	4.5	6.5	35	3 N/O	2 NC	
25	7.5	11	14	3.5	6	8.5	40	2 N/O	1 NC	
25	7.5	11	14	3.5	6	8.5	40	2 N/O	1 NC	
25	7.5	11	14	3.5	6	8.5	40	3 N/O	2 NC	
32	10	15	17	4	7	10	40	2 N/O	1 NC	
32	10	15	17	4	7	10	40	2 N/O	1 NC	
32	10	15	17	4	7	10	40	3 N/O	2 NC	


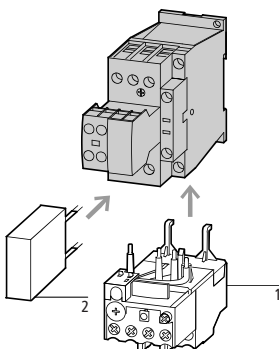
Information relevant for export to North America

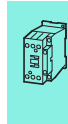


Product Standards	IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking
UL File No.	E29096
UL CCN	NLDX
CSA File No.	012528
CSA Class No.	2411-03, 3211-04
NA Certification	UL Listed, CSA certified
See also	→ Page 5/84

HPL05025EN

DILM

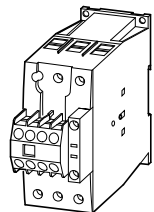
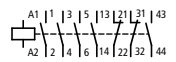
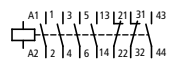

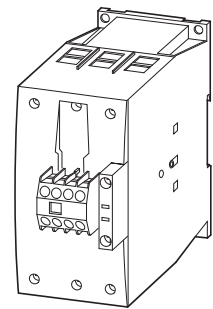


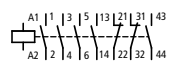

AC operation		DC operation		Std. pack	Notes
Part no. Article no.	Price See price list	Part no. Article no.	Price See price list		
DILM7-21(230V50HZ) 276620		DILM7-21(24VDC) 276635		1 off 	 <p>Accessories</p> <p>1 Overload relay 2 Suppressor Accessories</p> <p>Page</p> <p>→ Chapter 6 → 5/54 → 5/56</p> <p>For all DC operated contactors DILM7 - DILM15 the following applies:</p> <ul style="list-style-type: none"> • Integrated varistor suppressor circuit. <p>For DC operated contactors DILM17 - DILM170 the following applies:</p> <ul style="list-style-type: none"> • Integrated suppressor circuit in actuating electronics <p>For AC operated contactors DILM115 - DILM170 the following applies:</p> <ul style="list-style-type: none"> • Integrated suppressor circuit in actuating electronics <p>For DILM7 - DILM150 the following applies:</p> <ul style="list-style-type: none"> • With mirror contact. <p>Contacts to EN 50012</p>
DILM7-22(230V50HZ) 106360		DILM7-22(24VDC) 106367			
DILM7-32(230V50HZ) 276655		DILM7-32(24VDC) 276670			
DILM9-21(230V50HZ) 276760		DILM9-21(24VDC) 276775			
DILM9-22(230V50HZ) 106361		DILM9-22(24VDC) 106368			
DILM9-32(230V50HZ) 276795		DILM9-32(24VDC) 276810			
DILM12-21(230V50HZ) 276900		DILM12-21(24VDC) 276915			
DILM12-22(230V50HZ) 106362		DILM12-22(24VDC) 106369			
DILM12-32(230V50HZ) 276935		DILM12-32(24VDC) 276950			
DILM15-22(230V50HZ) 106363		DILM15-22(24VDC) 106370			
DILM17-21(230V50HZ) 277068		DILM17-21(RDC24) 277082			
DILM17-22(230V50HZ) 106364		DILM17-22(RDC24) 106371			
DILM17-32(230V50HZ) 277100		DILM17-32(RDC24) 277114			
DILM25-21(230V50HZ) 277196		DILM25-21(RDC24) 277210			
DILM25-22(230V50HZ) 106365		DILM25-22(RDC24) 106372			
DILM25-32(230V50HZ) 277228		DILM25-32(RDC24) 277242			
DILM32-21(230V50HZ) 277324		DILM32-21(RDC24) 277338			
DILM32-22(230V50HZ) 106366		DILM32-22(RDC24) 106373			
DILM32-32(230V50HZ) 277356		DILM32-32(RDC24) 277370			



Rated operational current AC-3	Max. motor rating for three-phase motors 50 - 60 Hz						Conventional free air thermal current $I_{th} = I_e$ AC-1 at 60 °C	Contact configuration: ⊕ = Safety function by positive opening according to IEC/EN 60947-5-1	Circuit symbol
	AC-3		AC-4						
380 V	220 V	380 V	660 V	220 V	380 V	660 V	Open $I_{th} = I_e$	N/O = normally open contact NC = normally closed contact	
400 V	230 V	400 V	690 V	230 V	400 V	690 V			
I_e	P	P	P	P	P	P			
A	kW	kW	kW	kW	kW	kW	A		

DILM complete device


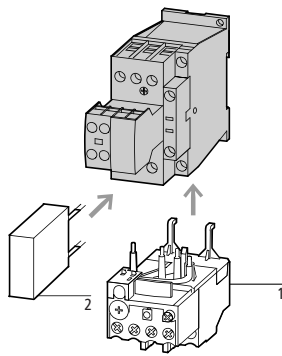
Screw terminals

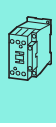
	40	12.5	18.5	23	5	9	12	50	2 N/O	2 NC	
	50	15.5	22	30	6	10	14	65	2 N/O	2 NC	
	65	20	30	35	7	12	17	80	2 N/O	2 NC	
	80	25	37	63	12	20	26	90	2 N/O	2 NC	
	95	30	45	75	16	26	35	110	2 N/O	2 NC	
	115	37	55	90	17	28	43	130	2 N/O	2 NC	
	150	48	75	96	20	34	48	160	2 N/O	2 NC	

Information relevant for export to North America



Product Standards	IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05;
UL File No.	E29096
UL CCN	NLDX
CSA File No.	012528
CSA Class No.	2411-03, 3211-04
NA Certification	UL Listed, CSA certified
See also	→ Page 5/84

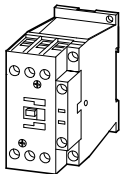
AC operation		DC operation		Std. pack	Notes
Part no. Article no.	Price See price list	Part no. Article no.	Price See price list		
DILM40-22(230V50HZ) 277798		DILM40-22(RDC24) 277812		1 off 	 <p>Accessories</p> <p>1 Overload relay → Chapter 6</p> <p>2 Suppressor → 5/54</p> <p>Accessories → 5/56</p> <p>For DC operated contactors DILM17 - DILM170 the following applies:</p> <ul style="list-style-type: none"> • Integrated suppressor circuit in actuating electronics <p>For AC operated contactors DILM115 - DILM170 the following applies:</p> <ul style="list-style-type: none"> • Integrated suppressor circuit in actuating electronics <p>For DILM7 - DILM150 the following applies:</p> <ul style="list-style-type: none"> • With mirror contact. <p>Contacts to EN 50012</p>
DILM50-22(230V50HZ) 277862		DILM50-22(RDC24) 277876			
DILM65-22(230V50HZ) 277926		DILM65-22(RDC24) 277940			
DILM80-22(230V50HZ) 239449		DILM80-22(RDC24) 239463			
DILM95-22(230V50HZ) 239527		DILM95-22(RDC24) 239541			
DILM115-22(RAC240) 239578		DILM115-22(RDC24) 239581			
DILM150-22(RAC240) 239598		DILM150-22(RDC24) 239601			



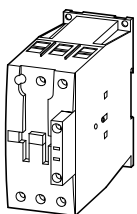
Pole	Rated operational current	Max. motor rating, three-phase motors, 50 - 60 Hz						Conventional thermal current $I_{th} = I_e$ AC-1 at 60 °C	Contact	Circuit symbol
		AC-3		AC-3		AC-4				
	380 V 400 V	220 V	380 V	660 V	220 V	380 V	660 V	Open	Contact configuration: ⊕ = Safety function by positive opening according to IEC/EN 60947-5-1 N/O = normally open contact NC = normally closed contact	
		230 V	400 V	690 V	230 V	400 V	690 V			
	I_e A	P	P	P	P	P	P	$I_{th} = I_e$ A		
		kW	kW	kW	kW	kW	kW			

Basic device

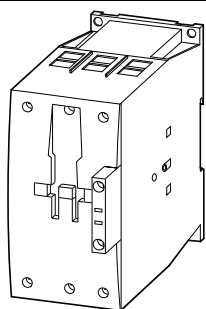
Screw terminals



3 pole	7	2.2	3	3.5	1	2.2	2.9	20	1 N/O	–	
	7	2.2	3	3.5	1	2.2	2.9	20	–	1 NC	
	9	2.5	4	4.5	1.5	2.5	3.6	20	1 N/O	–	
	9	2.5	4	4.5	1.5	2.5	3.6	20	–	1 NC	
	12	3.5	5.5	6.5	2	3	4.4	20	1 N/O	–	
	12	3.5	5.5	6.5	2	3	4.4	20	–	1 NC	
	18	5	7.5	11	2.5	4.5	6.5	35	1 N/O	–	
	18	5	7.5	11	2.5	4.5	6.5	35	–	1 NC	
	25	7.5	11	14	3.5	6	8.5	40	–	1 NC	
	25	7.5	11	14	3.5	6	8.5	40	1 N/O	–	
	32	10	15	17	4	7	10	40	1 N/O	–	
	32	10	15	17	4	7	10	40	–	1 NC	



3 pole	40	12.5	18.5	23	5	9	12	50	–	–	
	50	15.5	22	30	6	10	14	65	–	–	
	65	20	30	35	7	12	17	80	–	–	

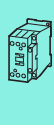




3 pole	80	25	37	63	12	20	26	90	–	–	
	95	30	45	75	16	26	35	110	–	–	
	115	37	55	90	17	28	43	130	–	–	
	150	48	75	96	20	33	48	160	–	–	

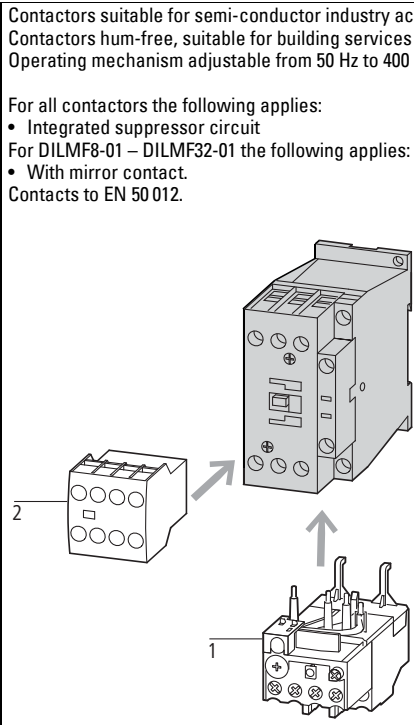
2) Information relevant for export to North America



Product Standards	IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05;
UL File No.	E29096
UL CCN	NLDX
CSA File No.	012528
CSA Class No.	2411-03, 3211-04
NA Certification	UL Listed, CSA certified
See also	→ Page 5/84



<p>AC operation</p> <p>Part no. Article no.</p> <p>Price See price list</p>	<p>Std. pack</p>	<p>Notes</p>
<p>DILMF8-10(RAC240) 104413</p>	<p>1 off  </p>	<p>Contactors suitable for semi-conductor industry according to SEMI F47. Contactors hum-free, suitable for building services automation. Operating mechanism adjustable from 50 Hz to 400 Hz.</p>
<p>DILMF8-01(RAC240) 104417</p>		
<p>DILMF11-10(RAC240) 104421</p>		
<p>DILMF11-01(RAC240) 104425</p>		
<p>DILMF14-10(RAC240) 104429</p>		
<p>DILMF14-01(RAC240) 104433</p>		
<p>DILMF17-10(RAC240) 104437</p>		
<p>DILMF17-01(RAC240) 104441</p>		
<p>DILMF25-01(RAC240) 104449</p>		
<p>DILMF25-10(RAC240) 104445</p>		
<p>DILMF32-10(RAC240) 104453</p>		
<p>DILMF32-01(RAC240) 104457</p>		
<p>DILMF40(RAC240) 104461</p>		
<p>DILMF50(RAC240) 104465</p>		
<p>DILMF65(RAC240) 104469</p>		
<p>DILMF80(RAC240) 104473</p>		
<p>DILMF95(RAC240) 104477</p>		
<p>DILMF115(RAC240) 104481</p>		
<p>DILMF150(RAC240) 104485</p>		



Accessories	Page
1 Overload relay	→ Chapter 6
2 Auxiliary contact modules	→ 5/38
Further actuating voltages	→ 5/80
Accessories	→ 5/56

Rated operational current	Max. motor rating for three-phase motors 50 - 60 Hz						Conventional thermal current $I_{th} = I_e$ AC-1 at 40 °C Open $I_{th} = I_e$	Circuit symbol	For use with
	AC-3	AC-3		AC-4		AC-4			
380 V	220 V	380 V	660 V	220 V	380 V	660 V		A	
400 V	230 V	400 V	690 V	230 V	400 V	690 V			
I_e	P	P	P	P	P	P			
A	kW	kW	kW	kW	kW	kW			

Standard device for currents greater than 150 A

DILM complete device

	250	75	132	240	62	110	189	400		DILM820-XHI...
	300	90	160	195	75	132	160	430		DILM820-XHI...
	400	125	200	344	92	160	283	612		DILM820-XHI...
	500	155	250	344	112	200	344	857		DILM820-XHI...
	580	185	315	344	112	200	344	920		DILM820-XHI...

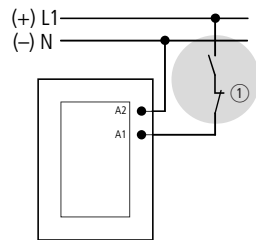
Notes

¹⁾ Availability from August 2010.
Previous DILM300/22, see Online Catalog at <http://ecat.moeller.net>

For all contactors the following applies:

- 660 V, 690 V or 1000 V: do not reverse directly
- Integrated suppressor circuit in actuating electronics.

DILM...-S contactors are actuated conventionally



① Stopping in the event of an emergency (emergency switching off)





Accessories

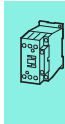
- Auxiliary contact modules → 5/40
- Enclosures totally insulated
- Further actuating voltages → 5/81

Page

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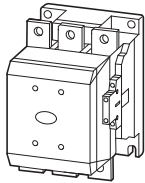
DILM...-S/22...

Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America												
															
DILM250-S/22(220-240V50/60HZ) 274190		1 off 	<table border="0"> <tr> <td>Product Standards</td> <td>IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking</td> </tr> <tr> <td>UL File No.</td> <td>E29096</td> </tr> <tr> <td>UL CCN</td> <td>NLDX</td> </tr> <tr> <td>CSA File No.</td> <td>1017510</td> </tr> <tr> <td>CSA Class No.</td> <td>3211-04</td> </tr> <tr> <td>NA Certification</td> <td>UL Listed, CSA certified</td> </tr> </table>	Product Standards	IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking	UL File No.	E29096	UL CCN	NLDX	CSA File No.	1017510	CSA Class No.	3211-04	NA Certification	UL Listed, CSA certified
Product Standards	IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking														
UL File No.	E29096														
UL CCN	NLDX														
CSA File No.	1017510														
CSA Class No.	3211-04														
NA Certification	UL Listed, CSA certified														
DILM300A-S/22(220-240V50/60HZ)¹⁾ 139559		1 off 	Request filed for UL and CSA												
DILM400-S/22(220-240V50/60HZ) 274196		1 off 	<table border="0"> <tr> <td>Product Standards</td> <td>IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking</td> </tr> <tr> <td>UL File No.</td> <td>E29096</td> </tr> <tr> <td>UL CCN</td> <td>NLDX</td> </tr> <tr> <td>CSA File No.</td> <td>012528</td> </tr> <tr> <td>CSA Class No.</td> <td>3211-04</td> </tr> <tr> <td>NA Certification</td> <td>UL Listed, CSA certified</td> </tr> </table>	Product Standards	IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking	UL File No.	E29096	UL CCN	NLDX	CSA File No.	012528	CSA Class No.	3211-04	NA Certification	UL Listed, CSA certified
Product Standards	IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking														
UL File No.	E29096														
UL CCN	NLDX														
CSA File No.	012528														
CSA Class No.	3211-04														
NA Certification	UL Listed, CSA certified														
DILM500-S/22(220-240V50/60HZ) 274199															
DILM570-S/22(220-240V50/60HZ) 110744			<table border="0"> <tr> <td>See also</td> <td>Additional approvals, → Page 5/86</td> </tr> </table>	See also	Additional approvals, → Page 5/86										
See also	Additional approvals, → Page 5/86														

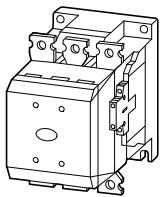
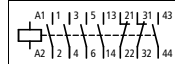


Rated operational current	Max. motor rating for three-phase motors 50 - 60 Hz									Conventional thermal current $I_{th} = I_e$ AC-1 at 60 °C Open $I_{th} = I_e$	Circuit symbol			
	AC-3			AC-3			AC-4							
380 V 400 V	220 V	380 V	660 V	1000 V	220 V	380 V	660 V	1000 V	220 V	380 V	660 V	1000 V	A	
I_e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

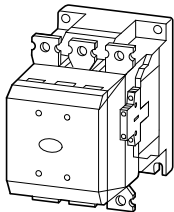
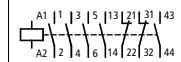
Contactors, comfort DILM



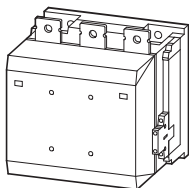
185	55	90	140	108	41	75	102	77	275
225	70	110	150	108	51	90	110	77	315



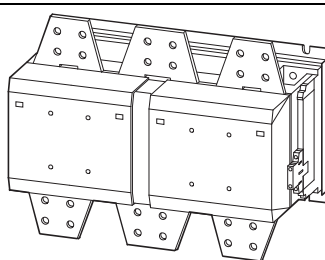
250	75	132	195	108	62	110	160	109	330
300	90	160	195	132	75	132	160	109	350



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



580	185	315	560	600	143	250	440	509	800
650	205	355	630	600	161	280	494	509	850
750	240	400	720	800	181	315	556	678	900
820	260	450	750	800	209	355	633	678	1000
1000	315	560	1000	1100	260	450	780	1000	1000



1600	500	900	1600	1770	430	750	1300	1650	1800
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Notes

¹⁾ Availability from August 2010.
Previous DILM185/22 to DILM300/22, see Online Catalog at <http://ecat.moeller.net>


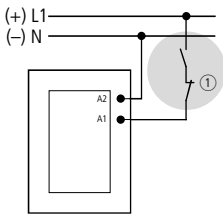
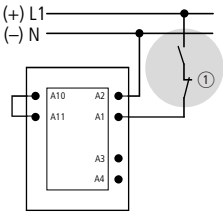
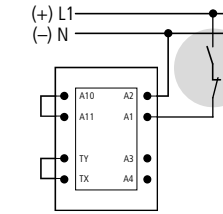
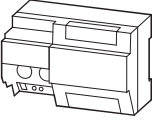
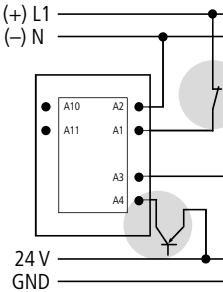
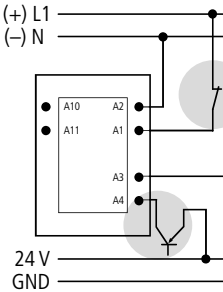
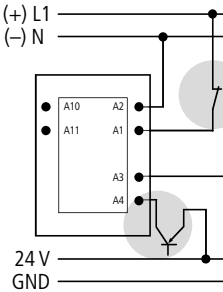
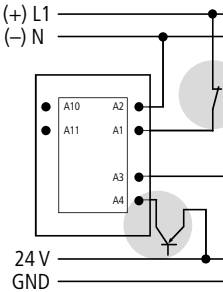
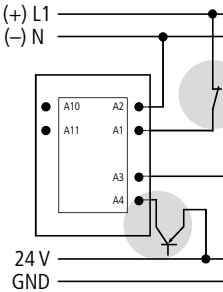
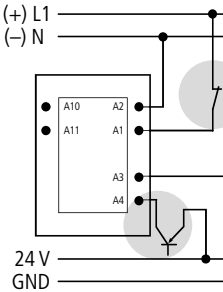
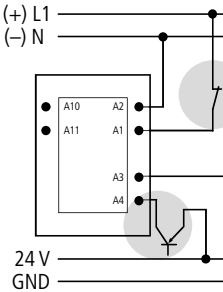
- For all contactors the following applies:
- 660 V, 690 V or 1000 V: do not reverse directly
 - Integrated suppressor circuit in actuating electronics.

When operating contactors DILM580 to DILM1600 behind a frequency inverter or mains with strong harmonic loads, the suppressor circuit on the load side must be removed.

During high-voltage tests, the suppressor circuit on the load-side for DILM580 to DILH2600 contactors must be disconnected (see instructional leaflet).

Control voltages
RA250 Δ 110 V - 250 V AC/DC
RAW250 Δ 230 V - 250 V AC/DC

Accessories	Page
Auxiliary contact modules	→ 5/40
Suppressor circuits on load side	→ 5/65
Enclosures totally insulated	
Further actuating voltages	→ 5/76

Part no.	Price See price list	Std. pack	Notes
DILM185A/22(RAC240) ¹⁾ 139537		1 off 	
DILM225A/22(RAC240) ¹⁾ 139547			<p>Conventional</p> <p>A1/A2 are attached to power supply as normal</p> <p>DILM 185 A, DILM 225 A</p> 
DILM250/22(RA250) ²⁾ 208201			<p>DILM250 to DILM1000, DILH1400</p> 
DILM300A/22(RA250) ^{1) 2)} 139556			<p>DILM1600 to DILH 2600</p> 
DILM400/22(RA250) ³⁾ 208209			<p>Directly from the PLC</p> <p>A 24 V output from the PLC can be directly connected to the terminals A4/A24.</p> 
DILM500/22(RA250) ³⁾ 208213			
DILM580/22(RA250) ³⁾ 208216			<p>From a low-power command device</p> <p>Low-power actuating devices such as PCB relays, pilot devices or position switches can be directly connected to A10/A11.</p> 
DILM650/22(RA250) ³⁾ 208219			
DILM750/22(RA250) ³⁾ 208222			
DILM820/22(RA250) ³⁾ 208225			
DILM1000/22(RA250) ³⁾ 267214			
DILM1600/22(RAW250) ³⁾ 106727			

① Stopping in the event of an emergency (emergency switching off)
② Max. cable capacitance 6 nF

Information relevant for export to North America



1)
NA Certification Request filed for UL and CSA

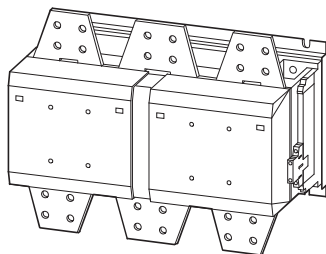
2)
Product Standards IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking
UL File No. E29096
UL CCN NLDX
CSA File No. 1017510
CSA Class No. 3211-04
NA Certification UL Listed, CSA certified

3)
Product Standards IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking
UL File No. E29096
UL CCN NLDX
CSA File No. 012528
CSA Class No. 3211-04
NA Certification UL Listed, CSA certified
See also Additional approvals → Page 5/86

Conventional thermal current $I_{th} = I_e$ Circuit symbol
 AC-1 at 60 °C
 Open
 $I_{th} = I_e$
 A

Part no.	Price See price list	Std. pack
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DILH comfort devices AC-1



- 1400
- 2000
- 2200
- 2600



DILH1400/22(RAW250) ¹⁾ 272441		
DILH2000/22(RAW250) ¹⁾ 272442		
DILH2200/22(RAW250) ¹⁾ 111793		
DILH2600/22(RAW250) ²⁾ 125945		

1 off

Notes

- For all contactors the following applies:
- 660 V, 690 V or 1000 V: do not reverse directly
 - Integrated suppressor circuit in actuating electronics.

When operating contactors DILM580 to DILM1600 behind a frequency inverter or mains with strong harmonic loads, the suppressor circuit on the load side must be removed.
 During high-voltage tests, the suppressor circuit on the load-side for DILM580 to DILH2600 contactors must be disconnected (see instructional leaflet).
 Control voltages
 RAW250 $\hat{=}$ 230 V - 250 V AC/DC

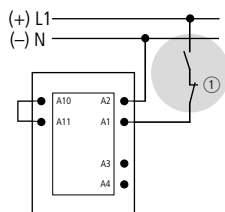
Accessories	Page
Auxiliary contact modules	→ 5/40
Suppressor circuits on load side	→ 5/65
Enclosures	totally insulated

Notes

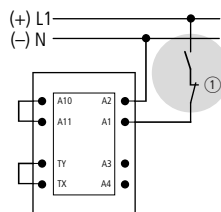
Conventional

A1/A2 are attached to power supply as normal

DILH1400

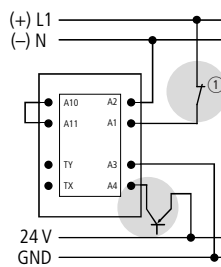
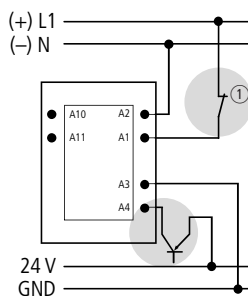
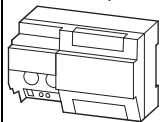


DILM1600 to DILH 2600



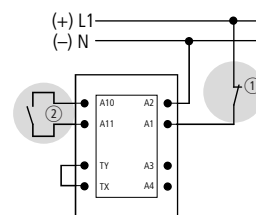
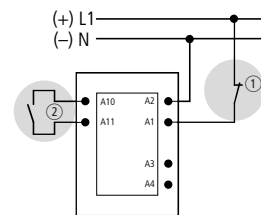
Directly from the PLC

A 24 V output from the PLC can be directly connected to the terminals A4/A24.



From a low-power command device

Low-power actuating devices such as PCB relays, pilot devices or position switches can be directly connected to A10/A11.



- ① Stopping in case of emergency (Emergency-stop)
- ② Max. cable capacitance 6 nF

Information relevant for export to North America

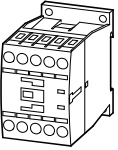
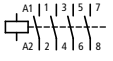
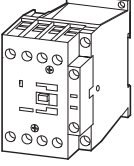
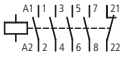
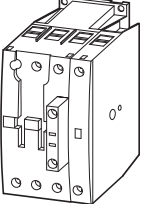

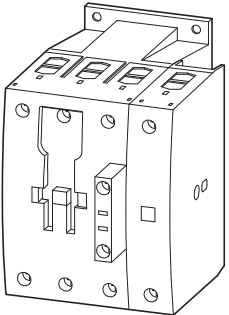



1)
Product Standards IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking
UL File No. E29096
UL CCN NLDX
CSA File No. 012528
CSA Class No. 3211-04
NA Certification UL Listed, CSA certified

2)
NA Certification Request filed for UL and CSA

Rated operational current open			Conventional thermal current $I_{th} = I_e$ AC-1 at 50 °C Open	Circuit symbol	For use with
AC-1 40 °C	55 °C	70 °C			
A	A	A	$I_{th} = I_e$ A		

4 pole

	22	21	20	20		DILM32-XHI(C)... DILA-XHI(V)(C)...
	32	30	28	32		DILM32-XHI(C)... DILA-XHI(V)(C)...
	32	30	28	32		
	45	41	39	45		
	45	41	39	45		
	63	60	54	63		DILM150-XHI(A)(V)... or DILM1000-XHI11-SA ¹⁾ or DILM1000-XHI(V)11-SI ¹⁾
	80	76	69	80		
	125	116	108	125		DILM150-XHI(A)(V)... DILM1000-XHI(V)... ¹⁾
	160	150	138	160		
	200	188	172	200		

Notes

¹⁾ DILM1000-XHI... can only be fitted on the left of DILMP.

Contacts to EN 50012.

For DC operated contactors DILMP20 the following applies:

- Integrated varistor suppressor circuit.

For DC operated contactors DILMP32 - DILMP200 the following applies:

- Integrated suppressor circuit in actuating electronics.

For AC operated contactors DILMP125 - DILMP200 the following applies:

- Integrated suppressor circuit in actuating electronics.

For DILMP32-01 and DILMP45-01 the following applies:

- With mirror contact.

AC operation			DC operation			Notes
Part no. Article no.	Price See price list	Std. pack	Part no. Article no.	Price See price list	Std. pack	
DILMP20(230V50HZ,240V60HZ) 276970		1 off 	DILMP20(24VDC) 276985		1 off 	<p>Accessories</p> <p>1 Auxiliary contact module → 5/38</p> <p>2 Suppressor → 5/54</p> <p>Further actuating voltages → 5/78</p> <p>Accessories → 5/56</p>
DILMP32-01(230V50HZ,240V60HZ) 118911			DILMP32-01(RDC24) 118913			
DILMP32-10(230V50HZ,240V60HZ) 109797			DILMP32-10(RDC24) 109811			
DILMP45-01(230V50HZ,240V60HZ) 118914			DILMP45-10(RDC24) 109840			
DILMP45-10(230V50HZ,240V60HZ) 109826						
DILMP63(230V50HZ,240V60HZ) 109855			DILMP63(RDC24) 109869			
DILMP80(230V50HZ,240V60HZ) 109884			DILMP80(RDC24) 109898			
DILMP125(RAC240) 109905			DILMP125(RDC24) 109910			
DILMP160(RAC240) 109915			DILMP160(RDC24) 109920			
DILMP200(RAC240) 109925			DILMP200(RDC24) 109930			

Information relevant for export to North America



Product Standards IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking
 UL File No. E29096
 UL CCN NLDX
 CSA File No. 012528
 CSA Class No. 2411-03, 3211-04
 NA Certification UL Listed, CSA certified
 See also → Page 5/85

Terminal type	Pole	Conventional thermal current $I_{th} = I_e$ AC-1 at 60 °C Open $I_{th} = I_e$ A	Contact configuration	Circuit symbol	For use with	Part no.	Price See price list	Std. pack	
Auxiliary contact modules									
With interlocked opposing contacts, except ...XHI(C)V									
Top mounting auxiliary contacts									
	Screw terminals	2 pole	16	1 N/O	1 NC		DILM(C)7-10... DILM(C)9-10... DILM(C)12-10... DILM(C)15-10... DILM(C)17-10... DILM(C)25-10... DILM(C)32-10... DILM38-...10 DILMP20... DILMP32-10... DILMP45-10... DILL...	DILM32-XHI11 277376	5 off
				-	2 NC				
	Screw terminals	4 pole	16	2 N/O	2 NC		DILM32-XHI22 277377	DILM32-XHI31 106112	
				3 N/O	1 NC				
	Spring-loaded terminals	2 pole	16	1 N/O	1 NC		DILM32-XHIC11 277751	DILM32-XHIC02 277750	
				-	2 NC				
	Spring-loaded terminals	4 pole	16	2 N/O	2 NC		DILM32-XHIC22 277752		
	Screw terminals	2 pole	16	2 N/O	-		DILM(C)7... DILM(C)9... DILM(C)12... DILM(C)15... DILM(C)17... DILM(C)25... DILM38... DILMP20... DILMP32... DILMP45... DILL...	DILA-XHI20 276422	
				1 N/O	1 NC				
	Screw terminals	4 pole	16	-	2 NC		DILA-XHI02 276420	DILA-XHIV11 276423	
				1 S _F	1 Ö _S				
	Screw terminals	4 pole	16	4 N/O	-		DILA-XHI40 276428	DILA-XHI31 276427	
				3 N/O	1 NC				
	Screw terminals	4 pole	16	2 N/O	2 NC		DILA-XHI13 276425	DILA-XHI04 276424	
				1 N/O	3 NC				
	Screw terminals	4 pole	16	-	4 NC		DILA-XHIV22 276429		
				1 N/O	1 NC				
	Screw terminals	4 pole	16	1 S _F	1 Ö _S				

Notes

















- Auxiliary NC usable as mirror contact according to IEC/EN 60947-4-1, Annex F
- Interlocked opposing contacts according to IEC/EN 60947-5-1 Annex L, inside the auxiliary contact modules, also for the integrated auxiliary contacts of the DILM 7 - DILM32

Information relevant for export to North America



Product Standards	IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking
UL File No.	E29184
UL CCN	NKCR
CSA File No.	012528
CSA Class No.	3211-03
NA Certification	UL Listed, CSA certified


HPL05039EN






















Terminal type	Pole	Conventional thermal current $I_{th} = I_e$ AC-1 at 60 °C Open $I_{th} = I_e$ A	Contact configuration	Circuit symbol	For use with	Part no.	Price See price list	Std. pack	
Auxiliary contact modules									
With interlocked opposing contacts, except ...XHI(C)V									
Top mounting auxiliary contacts									
	Spring-loaded terminals	2 pole	16	2 N/O	—		DILM(C)7... DILM(C)9... DILM(C)12... DILM(C)15... DILM(C)17... DILM(C)25... DILM(C)32... DILM38... DILMP20... DILMP32... DILMP45... DILL...	DILA-XHIC20 276528	5 off 
				1 N/O	1 NC			DILA-XHIC11 276527	
				—	2 NC			DILA-XHIC02 276526	
				1 S _F	1 Ö _S			DILA-XHICV11 276529	
	Screw terminals	2 pole	16	2 N/O	2 NC		DILM(C)7... DILM(C)9... DILM(C)12... DILM(C)15... DILM(C)17... DILM(C)25... DILM(C)32...	DILA-XHIR22¹⁾ 139580	
			16	1 N/O	1 NC			DILA-XHIR11 110140	
	Spring-loaded terminals	4 pole	16	4 N/O	—		DILM(C)7... DILM(C)9... DILM(C)12... DILM(C)15... DILM(C)17... DILM(C)25... DILM(C)32...	DILA-XHIC40 276534	
				3 N/O	1 NC			DILA-XHIC31 276533	
				2 N/O	2 NC			DILA-XHIC22 276532	
				1 N/O	3 NC			DILA-XHIC13 276531	
				—	4 NC			DILA-XHIC04 276530	
				1 N/O 1 S _F	1 NC 1 Ö _S			DILA-XHICV22 276535	

Notes

- Auxiliary NC usable as mirror contact according to IEC/EN 60947-4-1, Annex F
 - Interlocked opposing contacts according to IEC/EN 60947-5-1 Annex L, inside the auxiliary contact modules, also for the integrated auxiliary contacts of the DILM 7 - DILM32
- ¹⁾ 1 N/C + 1 N/O above microswitch for electronic applications

Information relevant for export to North America

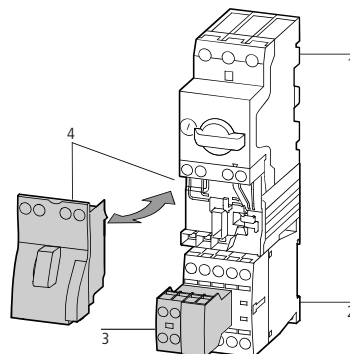
	
Product Standards	IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking
UL File No.	E29184
UL CCN	NKCR
CSA File No.	012528
CSA Class No.	3211-03
NA Certification	UL Listed, CSA certified
¹⁾	
NA Certification	Request filed for UL and CSA

Connection type	Pole	conventional thermal current $I_{th} = I_e$ AC-1 at 60 °C Open $I_{th} = I_e$ A	Contact configuration N/O = normally open contact SF = N/O early make NC = normally closed contact ÖS = NC late-break	Circuit symbol	For use with	Part no. Article no.	Price See price list	Std. pack	Notes
Auxiliary contact modules									
With interlocked opposing contacts									
Top mounting auxiliary contacts									
	Screw terminals	2 pole	16	2 N/O –		DILM40... DILM50... DILM65... DILM72... DILM80... DILM95... DILM115... DILM150... DILM170... DILMP63... DILMP80... DILMP125... DILMP160... DILMP200...	DILM150-XHI20 277945	5 off 	Interlocked opposing contacts according to IEC/EN 60947-5-1 Annex L, inside the auxiliary contact modules Auxiliary NC usable as mirror contact according to IEC/EN 60947-4-1, Annex F
				1 N/O 1 NC			DILM150-XHI11 277946		
				1 N/O 1 NC			DILM150-XHIA11 283463		
				– 2 NC			DILM150-XHI02 277947		
	Screw terminals	4 pole	16	4 N/O –			DILM150-XHI40 277948		
				3 N/O 1 NC			DILM150-XHI31 277949		
				2 N/O 2 NC			DILM150-XHI22 277950		
				2 N/O 2 NC			DILM150-XHIA22 283464		
				1 N/O 3 NC			DILM150-XHI13 277951		
				– 4 NC			DILM150-XHI04 277952		
				1 N/O 1 NC 1 SF 1 ÖS			DILM150-XHIV22 277953		
High version¹⁾									
	Screw terminals	2 pole	16	2 N/O –		DILM7... DILM9... DILM12... DILM15... DILL...	DILA-XHIT20 101042	5 off 	Interlocked opposing contacts according to IEC/EN 60947-5-1 Annex L, inside the auxiliary contact modules Auxiliary NC usable as mirror contact according to IEC/EN 60947-4-1, Annex F
				1 N/O 1 NC			DILA-XHIT11 101043		
	Screw terminals	4 pole	16	– 2 NC			DILA-XHIT02 101041		
				2 N/O 2 NC			DILA-XHIT22 101044		

Notes

¹⁾ Suitable for the combination with electrical wiringlinks in tool-less plug connection usable with:
DILM12-XSL
DILM12-XRL
DILM12-XS1
PKZM0-XDM12
PKZM0-XRM12
PKZM0-XSM12

- 1 PKZM0
- 2 DILM7 - DILM15
- 3 DILA-XHIT
- 4 PKZM0-XDM12



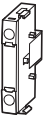




















Information relevant for export to North America



Product Standards IEC/EN 60947-4-1;
UL 508; CSA-C22.2
No. 14-05; CE marking
E29184
UL File No. NKCR
UL CCN 012528
CSA File No. 3211-03
CSA Class No. UL Listed,
NA Certification CSA certified

HPL05041EN

DILA, DILM

Connection type	Pole	conventional thermal current $I_{th} = I_e$ AC-1 at 60 °C Open $I_{th} = I_e$ A	Contact configuration N/O = normally open contact SF = N/O early make NC = normally closed contact ÖS = NC late-break	Circuit symbol	For use with	Part no. Article no.	Price See price list	Std. pack	Notes
Side-mounting auxiliary contacts									
	Screw terminals	1 pole	10	1 N/O –		DILM(C)7... DILM(C)9... DILM(C)12... DILM(C)15... DILMP20... DILA(C)...		1 off 	1)
				– 1 NC					
	Spring-loaded terminals	1 pole	10	1 N/O –		DILM17... DILM25... DILM32... DILM38...		1 off 	1)
				– 1 NC					
	Screw terminals	2 pole	10	1 N/O 1 NC				1 off 	Can only be left on the contactor. Cannot be combined with mechanical interlock
Side-mounting auxiliary contacts									
	Screw terminals	2 pole	10	1 N/O 1 NC		DILM250 - DILH2600		1 off 	1)
			10	1 N/O 1 NC					
			10	1 SF 1 ÖS					
	Screw terminals	2 pole	10	1 N/O 1 NC		DILM40 - DILM225A DILMP63 - DILMP200		1 off 	1)
			10	1 SF 1 ÖS					
			10	1 N/O 1 NC					

Notes

- 1)
- Interlocked opposing contacts according to IEC/EN 60947-5-1 Annex L, inside the auxiliary contact module, also for the integrated auxiliary contacts of the DILM7 – DILM32 (not NO early-make and NC late-break)
 - Auxiliary NC usable as mirror contact according to IEC/EN 60947-4-1, Annex F (no NC late-breaks)
 - No auxiliary contact is possible between 2 contactors with mechanical interlock.

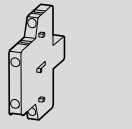
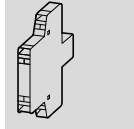
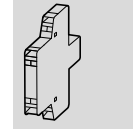
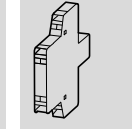
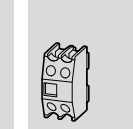
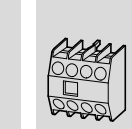
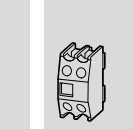
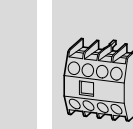
Information relevant for export to North America



2)

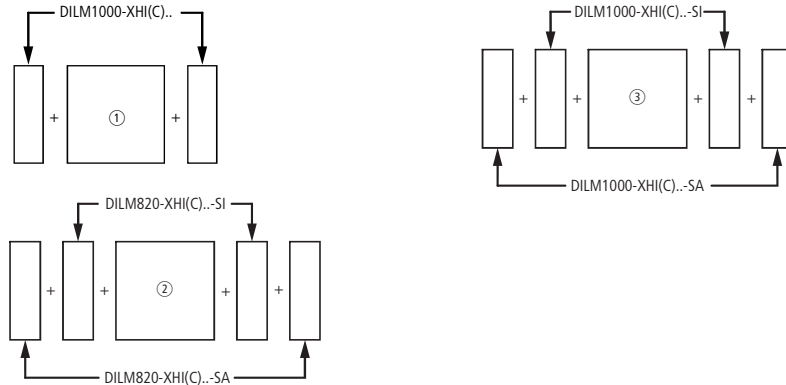
Product Standards IEC/EN 60947-4-1;
 UL 508; CSA-C22.2 No. 14-05;
 CE marking
 UL File No.E29184
 UL CCNNKCR
 CSA File No.012528
 CSA Class No.3211-03, 3211-04
 NA Certification UL Listed,
 CSA certified

Engineering

								
DILM40	2 x	–	–	–	–	–	1 x	–
... DILM72	–	–	2 x	–	1 x	–	–	–
	1 x	–	–	–	–	–	–	1 x
	–	–	1 x	–	–	1 x	–	–
DILM80	2 x	–	2 x	–	–	–	–	–
... DILM170	2 x	–	–	–	–	–	–	1 x
	2 x	–	–	–	–	–	1 x	–
	–	–	2 x	–	–	1 x	–	–
	–	–	2 x	–	1 x	–	–	–
DILM185A	2 x	–	2 x	–	–	–	–	–
DILM222A	2 x	–	–	–	–	–	–	–
DILM250 DILM1600	–	2 x	–	2 x	–	–	–	–
DILH1400 ... DILH2600	–	2 x	–	2 x	–	–	–	–

Notes

Side mounting auxiliary contacts

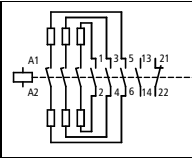


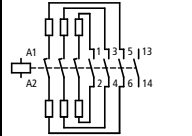


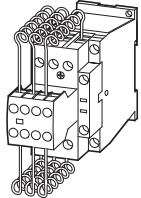
- ① DILM40 – DILM72
- ② DILM250 – DILH2600
- ③ DILM80-DILM225A

- Interlocked opposing contacts according to IEC/EN 60947-5-1 Annex L, inside the auxiliary contact module (not N/O early close and N/C late open)
- Auxiliary contacts can be used as mirror contacts according to IEC/EN 60947-4-1, Annex F (not N/C late open)
- No auxiliary contact is possible between two contactors with mechanical interlock.
- 2 auxiliary contacts DILM820-XHI11-SI are already built into the contactors DILM250 to DILH2600/22.
- 2 DILM1000-XHI11-SI auxiliary contacts are already installed in DILM185A and DILH225A contactors.

HPL05043EN

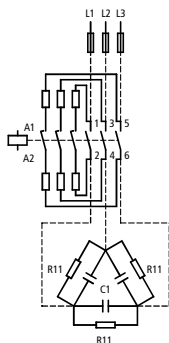
Ordering

Three-phase capacitors 50 – 60 Hz				Circuit symbol	Part no. Article no.	Price See price list	Std. pack
Open							
230 V	400 V	525 V	690 V		DILK12-11(230V50HZ,240V60HZ) 293988	 	1 Off
kvar	kvar	kvar	kvar				
With series resistors Basic Units					DILK25-11(230V50HZ,240V60HZ) 294032		
7.5	12.5	16.7	20		DILK33-10(230V50HZ,240V60HZ) 294054		
11	20	25	33.3	DILK50-10(230V50HZ,240V60HZ) 294076			
15	25	33.3	40				
20	33.3	40	55				
25	50	65	85				



Notes

Weld-resistant for capacitors with inrush current peaks up to $180 \times I_N$
 With group compensation multi-stage capacitor banks are connected to the mains as required. This can cause, transient currents of up to $180 \times I_e$ to 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 continuous current.
 The contactors for capacitors are weld-resistant with inrush current peaks up to $180 \times I_e$ due to their special contacts.
 DILK... cannot be combined with other auxiliary contacts.
 For the switching of reactive-power compensation equipment please see Engineering notes on power factor correction → page 5/35.



Accessories	Page
Enclosures totally insulated	
Accessories	→ 5/56
Further actuating voltages	→ 5/80

Information relevant for export to North America



Product Standards	IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking
UL File No.	E29096
UL CCN	NLDX
CSA File No.	012528
CSA Class No.	3211-04
NA Certification	UL Listed, CSA certified
See also	Further approvals → page 5/70

Engineering

Part no.	Page	Switching power			
		230 V	400 V 420 V 440 V	525 V	690 V
		kvar	kvar	kvar	kvar
Individual compensation, open version					
DILM7-...(...)	→ 5/18	1.5	3	3.5	5
DILM9-...(...)	→ 5/18	2	4	4.5	6
DILM12-...(...)	→ 5/18	2.5	4.5	5.5	7
DILM15-...(...)	→ 5/18	2.5	4.5	5.5	7
DILM17-...(...)	→ 5/18	6.5	12	14.5	19
DILM25-...(...)	→ 5/18	7	13.5	16	21
DILM32-...(...)	→ 5/18	7.5	14.5	17	22.5
DILM40(...)	→ 5/20	11	20.5	24.5	32
DILM50(...)	→ 5/20	11.5	22	26	34.5
DILM65(...)	→ 5/20	12.5	23.5	28	37
DILM80(...)	→ 5/20	16	30.5	36.5	48
DILM95(...)	→ 5/20	18	34	41	54
DILM115(...)	→ 5/20	24	46	54.5	72
DILM150(...)	→ 5/20	28	53	63.5	83.5
DILM185A(...)	→ 5/32	87	150	190	150
DILM300A(...)	→ 5/32	115	200	265	200
DILM580(...)	→ 5/32	175	300	400	300
Group compensation, with choke, open version					
DILM7-...(...)	→ 5/18	4	7	7.5	12
DILM9-...(...)	→ 5/18	5	8	10	14
DILM12-...(...)	→ 5/18	5.5	10	12	16
DILM15-...(...)	→ 5/18	5.5	10	12	16
DILM17-...(...)	→ 5/18	7.5	18	20	28
DILM25-...(...)	→ 5/18	10	20	23	30
DILM32-...(...)	→ 5/18	12.5	25	25	32
DILM40(...)	→ 5/20	15	30	30	40
DILM50(...)	→ 5/20	20	40	40	48
DILM65(...)	→ 5/20	25	50	50	57
DILM80(...)	→ 5/20	30	60	70	90
DILM95(...)	→ 5/20	35	70	80	104
DILM115(...)	→ 5/20	50	95	100	125
DILM150(...)	→ 5/20	55	115	115	152
DILM185A(...)	→ 5/32	80	150	200	260
DILM225A(...)	→ 5/32	100	175	230	300
DILM250(...)	→ 5/32	110	190	260	340
DILM300A(...)	→ 5/32	130	225	290	390
DILM400(...)	→ 5/32	160	280	370	480
DILM500(...)	→ 5/32	220	390	500	680
Group compensation, without choke, open version					
DILK12-...(...)	→ 5/43	7.5	12.5	16.7	20
DILK20-...(...)	→ 5/43	11	20	25	33.3
DILK25-...(...)	→ 5/43	15	25	33.3	40
DILK33-...(...)	→ 5/43	20	33.3	40	55
DILK50-...(...)	→ 5/43	25	50	65	85
DILM185A(...)	→ 5/32	66	115	145	115
DILM300A(...)	→ 5/32	85	150	195	150
DILM580(...)	→ 5/32	145	250	333	250

Notes

Use of the contactors DILM without series resistor for group compensation

When using the contactors for group compensation in a system without chokes each capacitor must have a minimum induction of approx. 6 µH to limit the peak inrush current. This corresponds to an air-cored coil with 5 windings and a coil diameter of approximately Ø 140 mm. The conductor cross section must correspond to the rated operational current.

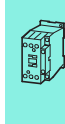
Ordering

Rated operational current	AC-5a operation		AC-5b operation		Conventional thermal current $I_{th} = I_e$ AC-1 at 60 °C	Circuit symbol	Part no. Article no.	Price See price list	Std. pack
	230 V	400 V	230 V	400 V					
	I_e A	I_e A	I_e A	I_e A					
12	12	14	14	24		DILL12(230V50HZ,240V60HZ) 104402		1 Off 	
12	12	14	14	24		DILL12(24V50HZ) 104401			
12	12	14	14	24		DILL12(400V50HZ,440V60HZ) 104403			
18	18	21	21	35		DILL18(230V50HZ,240V60HZ) 104405			
18	18	21	21	35		DILL18(24V50HZ) 104404			
18	18	21	21	35		DILL18(400V50HZ,440V60HZ) 104406			
20	20	27	27	40		DILL20(230V50HZ,240V60HZ) 104408			
20	20	27	27	40		DILL20(24V50HZ) 104407			
20	20	27	27	40		DILL20(400V50HZ,440V60HZ) 104409			

Notes DILL do not have an integrated auxiliary contact. They can be combined with DILM32-XHI... and DILA-XHI... auxiliary contacts. Switchgear for illumination systems → page 5/46

Information relevant for export to North America

Product Standards IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking
 UL File No. E29096
 UL CCN NLDX
 CSA File No. 012528
 CSA Class No. 3211-04
 NA Certification UL Listed, CSA certified

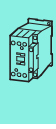


Engineering

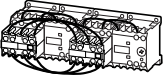
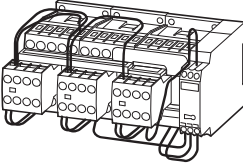
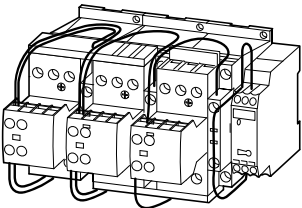
	DIL	L12	L18	L20	M7	M9	M12	M17	M25	M32	M40	M50
Permissible compensation capacitance	C_{\max} [mF]	470	470	470	47	80	100	220	330	470	470	500
Filament bulbs	I_e [A]	14	21	27	6	7.5	10	14	21	27	33	42
Mercury blended lamps	I_e [A]	12	16	23	5	6.5	8.5	12	16	23	30	38
Fluorescent lamps, conventional reactor – starter – connection	I_e [A]	20	26	35	9	10	15	20	26	35	41	45
Fluorescent lamps, duo circuit (series compensated)	I_e [A]	20	26	35	5.5	8	13	15	22.5	29	36	47
Electronic upstream devices	I_e [A]	12	18	20	5	6.5	8.5	12	17.5	22.5	28	35
High-pressure mercury vapour lamps	I_e [A]	12	18	20	3.5	6	10	12	17.5	20	25	30
Metal-halide lamps	I_e [A]	12	18	20	3.5	6	10	12	17.5	20	25	30
High-pressure sodium lamps	I_e [A]	12	18	20	3.5	6	10	12	17.5	20	25	30
Low-pressure sodium lamps	I_e [A]	7.5	10	12	3	4	6	7.5	10	12	15	22

	DIL	M65	M80	M95	M115	M150	M185A	M225A	M250	M300A	M400	M500
Permissible compensation capacitance	C_{\max} [mF]	500	550	620	830	970	2055	2300	2600	3000	3250	3500
Filament bulbs	I_e [A]	55	67	79	95	125	153	187	208	249	332	415
Mercury blended lamps	I_e [A]	45	65	67	80	110	123	150	167	200	266	332
Fluorescent lamps, conventional reactor – starter – connection	I_e [A]	55	95	100	125	145	207	237	263	300	375	525
Fluorescent lamps, duo circuit (series compensated)	I_e [A]	59	71	95	100	138	186	213	236	270	338	473
Electronic upstream devices	I_e [A]	45.5	56	66.5	80.5	105	130	158	175	210	280	350
High-pressure mercury vapour lamps	I_e [A]	36	55	60	80	95	138	158	175	200	250	350
Metal-halide lamps	I_e [A]	36	55	60	80	95	138	158	175	200	250	350
High-pressure sodium lamps	I_e [A]	36	55	60	80	95	138	158	175	200	250	350
Low-pressure sodium lamps	I_e [A]	25	35	40	50	70	100	111	123	140	175	245

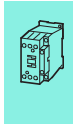
In compensated lamps, the sum of the capacitances must not exceed the contactors' max. permissible capacitor load (C_{\max})!
The values in the table are for each individual contactor contact.



Ordering

	Rated operational current AC-3	Max. rated operational power for three-phase motors, 50 - 60 Hz AC-3				Max. change-over time ^s	Part no. Article no.	Price See price list	Std. pack
	400 V I _e A	230 V P kW	400 V P kW	500 V P kW	690 V P kW				
Star-delta combinations SDAINL									
Operating frequency: maximum 30 starts per hour									
	12	4	5.5	5.5	–	< 30	SDAINLEM(230V50HZ) 051840		1 Off
	12	3	5.5	5.5	5.5	< 20	SDAINLM12(230V50HZ) 278286		
	12	3	5.5	5.5	5.5	< 20	SDAINLM12(400V50HZ) 101380		
	12	3	5.5	5.5	5.5	< 20	SDAINLM12(24VDC) 100416		
	16	4	7.5	7.5	7.5	< 20	SDAINLM16(230V50HZ) 278311		
	16	4	7.5	7.5	7.5	< 20	SDAINLM16(400V50HZ) 101381		
	16	4	7.5	7.5	7.5	< 20	SDAINLM16(24VDC) 100417		
	22	5.5	11	11	11	< 20	SDAINLM22(230V50HZ) 278336		
	22	5.5	11	11	11	< 20	SDAINLM22(400V50HZ) 101382		
	22	5.5	11	11	11	< 20	SDAINLM22(24VDC) 100418		
	30	7.5	15	18.5	18.5	< 20	SDAINLM30(230V50HZ) 278361		
	30	7.5	15	18.5	18.5	< 20	SDAINLM30(400V50HZ) 101383		
	30	7.5	15	18.5	18.5	< 20	SDAINLM30(RDC24) 100419		
	45	11	22	30	22	< 20	SDAINLM45(230V50HZ) 278386		
	45	11	22	30	22	< 20	SDAINLM45(400V50HZ) 101384		
	45	11	22	30	22	< 20	SDAINLM45(RDC24) 100420		
	55	15	30	37	30	< 20	SDAINLM55(230V50HZ) 278411		
	55	15	30	37	30	< 20	SDAINLM55(400V50HZ) 101385		
	55	15	30	37	30	< 20	SDAINLM55(RDC24) 100421		
	70	18.5	37	45	37	< 20	SDAINLM70(230V50HZ) 239895		
	70	18.5	37	45	37	< 20	SDAINLM70(400V50HZ) 101386		
	90	22	45	55	45	< 20	SDAINLM90(230V50HZ) 239937		
	115	30	55	75	55	< 20	SDAINLM115(230V50HZ) 239963		
	140	37	75	90	90	< 20	SDAINLM140(230V50HZ) 240009		
	165	45	90	110	132	< 20	SDAINLM165(230V50HZ) 240035		
	200	55	110	132	160	< 20	SDAINLM200(230V50HZ) 101010		
	260	75	132	160	160	< 20	SDAINLM260(230V50HZ) 101031		

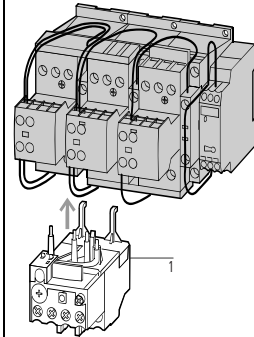
Individual components of the combination				Spare auxiliary contacts			Notes
Mains contactor Q11	Delta contactor Q15	Star contactor Q13	Timing relays K1	Q11	Q13	Q15	
Part no.	Part no.	Part no.	Part no.				
DILEM-10 + 22DILEM	DILEM-01	DILEM-10 + 02DILEM	DILET		—	—	Main circuit: Depending on the type of coordination 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.
DILM7-10 + DILA-XHI20	DILM7-01 + DILA-XHI20	DILM7-01 + DILA-XHI20	ETR4-51				
DILM7-10 + DILA-XHI20	DILM7-01 + DILA-XHI20	DILM7-01 + DILA-XHI20	ETR4-51				The following applies for SDAINLM 140 – SDAINLM 260: • On the mounting plate.
DILM7-10 + DILA-XHI20	DILM7-01 + DILA-XHI20	DILM7-01 + DILA-XHI20	ETR4-51				
DILM9-10 + DILA-XHI20	DILM9-01 + DILA-XHI20	DILM7-01 + DILA-XHI20	ETR4-51				Circuit diagrams, Star-delta combinations → page 5/50
DILM9-10 + DILA-XHI20	DILM9-01 + DILA-XHI20	DILM7-01 + DILA-XHI20	ETR4-51				
DILM9-10 + DILA-XHI20	DILM9-01 + DILA-XHI20	DILM7-01 + DILA-XHI20	ETR4-51				
DILM9-10 + DILA-XHI20	DILM9-01 + DILA-XHI20	DILM7-01 + DILA-XHI20	ETR4-51				
DILM12-10 + DILA-XHI20	DILM12-01 + DILA-XHI20	DILM7-01 + DILA-XHI20	ETR4-51				
DILM12-10 + DILA-XHI20	DILM12-01 + DILA-XHI20	DILM7-01 + DILA-XHI20	ETR4-51				
DILM12-10 + DILA-XHI20	DILM12-01 + DILA-XHI20	DILM7-01 + DILA-XHI20	ETR4-51				Accessories 1 Overload relay
DILM12-10 + DILA-XHI20	DILM12-01 + DILA-XHI20	DILM7-01 + DILA-XHI20	ETR4-51				
DILM17-10 + DILA-XHI20	DILM17-01 + DILA-XHI20	DILM17-01 + DILA-XHI20	ETR4-51				Page → 6/8
DILM17-10 + DILA-XHI20	DILM17-01 + DILA-XHI20	DILM17-01 + DILA-XHI20	ETR4-51				
DILM17-10 + DILA-XHI20	DILM17-01 + DILA-XHI20	DILM17-01 + DILA-XHI20	ETR4-51				Accessories → 5/56
DILM17-10 + DILA-XHI20	DILM17-01 + DILA-XHI20	DILM17-01 + DILA-XHI20	ETR4-51				
DILM25-10 + DILA-XHI20	DILM25-01 + DILA-XHI20	DILM17-01 + DILA-XHI20	ETR4-51				
DILM25-10 + DILA-XHI20	DILM25-01 + DILA-XHI20	DILM17-01 + DILA-XHI20	ETR4-51				
DILM25-10 + DILA-XHI20	DILM25-01 + DILA-XHI20	DILM17-01 + DILA-XHI20	ETR4-51				
DILM25-10 + DILA-XHI20	DILM25-01 + DILA-XHI20	DILM17-01 + DILA-XHI20	ETR4-51				
DILM32-10 + DILA-XHI20	DILM32-01 + DILA-XHI20	DILM25-01 + DILA-XHI20	ETR4-51				
DILM32-10 + DILA-XHI20	DILM32-01 + DILA-XHI20	DILM25-01 + DILA-XHI20	ETR4-51				
DILM32-10 + DILA-XHI20	DILM32-01 + DILA-XHI20	DILM25-01 + DILA-XHI20	ETR4-51				
DILM40 + DILM150-XHI31	DILM40 + DILM150-XHI11	DILM40 + DILM150-XHI11	ETR4-51		—	—	
DILM40 + DILM150-XHI31	DILM40 + DILM150-XHI11	DILM40 + DILM150-XHI11	ETR4-51		—	—	
DILM50 + DILM150-XHI31	DILM50 + DILM150-XHI11	DILM40 + DILM150-XHI11	ETR4-51		—	—	
DILM65 + DILM150-XHI31	DILM65 + DILM150-XHI11	DILM40 + DILM150-XHI11	ETR4-51		—	—	
DILM80 + DILM150-XHI31	DILM80 + DILM150-XHI11	DILM50 + DILM150-XHI11	ETR4-51		—	—	
DILM95 + DILM150-XHI31	DILM95 + DILM150-XHI11	DILM65 + DILM150-XHI11	ETR4-51		—	—	
DILM115 + DILM150-XHI31	DILM115 + DILM150-XHI11	DILM80 + DILM150-XHI11	ETR4-51		—	—	
DILM150 + DILM150-XHI31	DILM150 + DILM150-XHI11	DILM95 + DILM150-XHI11	ETR4-51		—	—	



Main circuit:
Depending on the type of coordination 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.

The following applies for SDAINLM 140 – SDAINLM 260:
• On the mounting plate.

Circuit diagrams, Star-delta combinations → page 5/50



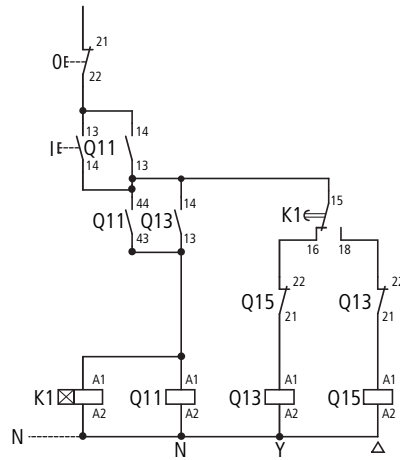
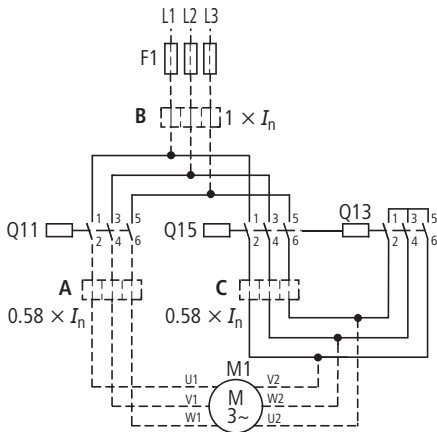
Accessories
1 Overload relay
Accessories

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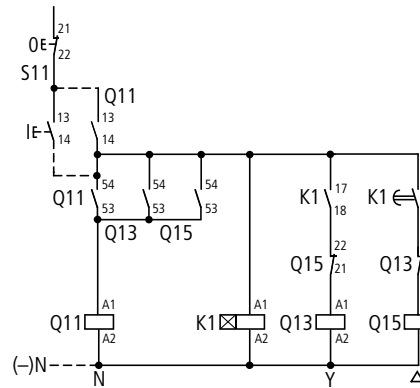
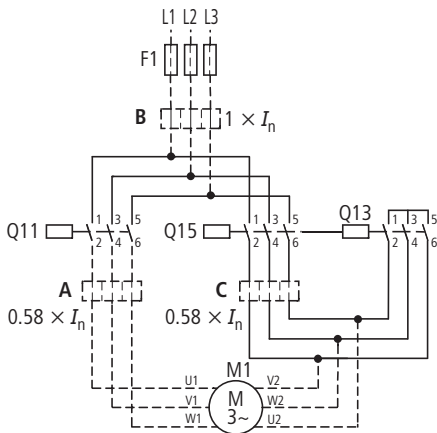
Engineering

Circuit diagrams, Star-delta combinations

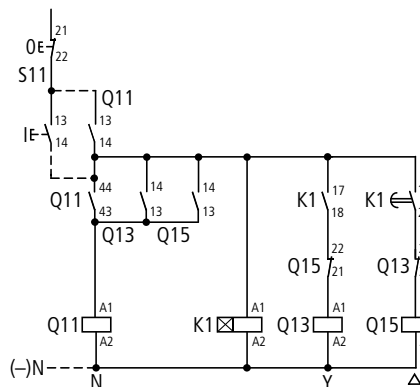
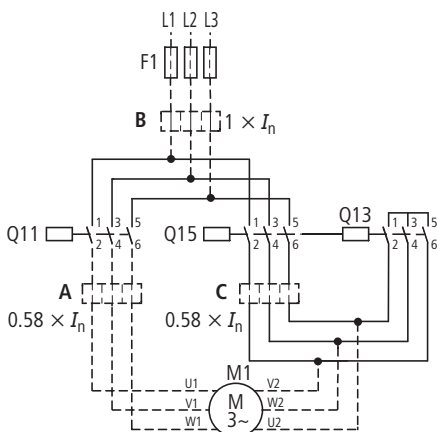
SDAINLEM



SDAINLM12...SDAINLM55



SDAINLM70...SDAINLM260



Overload relay settings

A: $I_N \times 0.58$
Motor protected in Y and Δ - positions

B: $I_N \times 1$
Only partial motor protection in Y position

C: $I_N \times 0.58$
Motor not protected in Y position

Timing relay set to approx. 10 s

Main circuit:

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

Starting

F 15 s

15 – 40 s

> 40 s

Components for self-assembly of star-delta combinations

Maximum operational rating of AC motors 50 - 60 Hz

AC-3				
230 V	400 V	500 V	690 V	1000 V
kW	kW	kW	kW	kW
90	160	200	250	132
110	200	250	315	160
132	250	315	400	200
160	300	355	450	200
200	355	450	560	220
250	450	560	600	220
300	560	710	900	355
350	630	750	950	355
400	710	900	1200	1400
450	800	950	1300	1400
560	1000	1200	1700	1700

Changeover time ¹⁾

up to 12 s	up to 20 s	up to 30 s
●	●	●
●	●	—
●	●	●
●	●	●
●	●	—
●	●	●
●	●	●
●	●	●
●	●	●
●	●	●
●	●	—

Individual components of the combination

Coil to EN 50005
Switching element to EN 50005 and EN 50012

Mains contactor Q11	Delta contactor Q15	Star contactor Q13	Timing relay K1
Part no. DIL	Part no. DIL	Part no. DIL	Part no.
M185A/22	M185A/22	M115/22	ETR4-51
M225A/22	M225A/22	M150/22	ETR4-51
M250/22	M250/22	M185A/22	ETR4-51
M300A/22	M300A/22	M185A/22	ETR4-51
M400/22	M400/22	M250/22	ETR4-51
M500/22	M500/22	M300A/22	ETR4-51
M580/22	M580/22	M400/22	ETR4-51
M650/22	M650/22	M400/22	ETR4-51
M750/22	M750/22	M580/22	ETR4-51
M820/22	M820/22	M580/22	ETR4-51
M1000/22	M1000/22	M650/22	ETR4-51

Spare auxiliary contacts

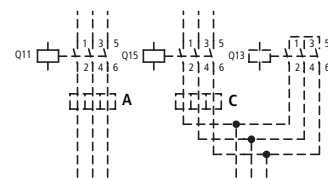
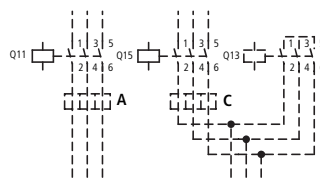
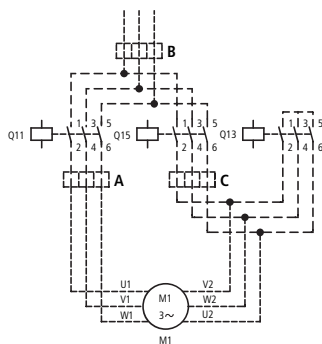
Q11	Q15	Q13

Notes

¹⁾ Longer changeover times please enquire

Components for self-assembly

Notes



Overload relay settings

Timing relay set to approx. 10 s

I_N

Starting

Main circuit:

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

Control circuit:

If the combinations are to be used within the scope of IEC/EN 60 204 Part 1, VDE 0113 Part 1, then Point 9.1.1 regarding the supply of control circuits, must be observed.

A x 0.58

Motor protection in Y and Δ positions

≤ 15 s

B x 1

In Y position only limited motor protection

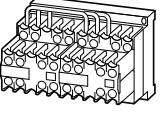

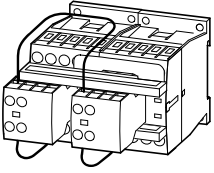
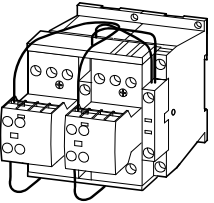
15 – 40 s

C x 0.58

Motor not protected in Y position

> 40 s

Ordering

	Rated operational current AC-3	Max. motor rating for three-phase motors 50 - 60 Hz						Part no.	Price See price list	Std. pack
		AC-3			AC-4					
		400 V	220 V 230 V	380 V 400 V	660 V 690 V	220 V 230 V	380 V 400 V			
	I_e A	P kW	P kW	P kW	P kW	P kW	P kW			
DIUL reversing combinations										
AC operation										
	9	2.2	4	4	1.5	3	3	DIULEM/21(MV(230V50HZ))¹⁾ 051849	1 Off 	
	9	2.2	4	4	1.5	3	3	DIULEM/21(MV-G(24VDC))²⁾ 214655		
	7	2.2	3	3.5	1	2.2	2.9	DIULM7/21(230V50HZ)²⁾ 278061		
	7	2.2	3	3.5	1	2.2	2.9	DIULM7/21(24VDC)²⁾ 107021		
	9	2.5	4	4.5	1.5	2.5	3.6	DIULM9/21(230V50HZ)²⁾ 278086		
	9	2.5	4	4.5	1.5	2.5	3.6	DIULM9/21(24VDC)²⁾ 107022		
	12	3.5	5.5	6.5	2	3	4.4	DIULM12/21(230V50HZ)²⁾ 278111		
	12	3.5	5.5	6.5	2	3	4.4	DIULM12/21(24VDC)²⁾ 107023		
	18	5	7.5	11	2.5	4.5	6.5	DIULM17/21(230V50HZ)²⁾ 278136		
	18	5	7.5	11	2.5	4.5	6.5	DIULM17/21(RDC24)²⁾ 107024		
	25	7.5	11	14	3.5	6	8.5	DIULM25/21(230V50HZ)²⁾ 278161		
	25	7.5	11	14	3.5	6	8.5	DIULM25/21(RDC24)²⁾ 107025		
	32	10	15	17	4	7	10	DIULM32/21(230V50HZ)²⁾ 278186		
	32	10	15	17	4	7	10	DIULM32/21(RDC24)²⁾ 107026		
	40	12.5	18.5	23	5	9	12	DIULM40/11(230V50HZ)²⁾ 278211		
	50	15.5	22	30	6	10	14	DIULM50/11(230V50HZ)²⁾ 278236		
	65	20	30	35	7	12	17	DIULM65/11(230V50HZ)²⁾ 278261		

Information relevant for export to North America



1)

Product Standards	IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05;
UL File No.	E29096
UL CCN	NLDX
CSA File No.	012528
CSA Class No.	3211-04
NA Certification	UL Listed, CSA certified

Information relevant for export to North America

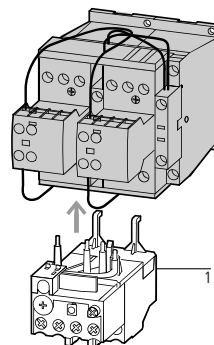
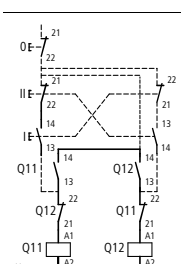
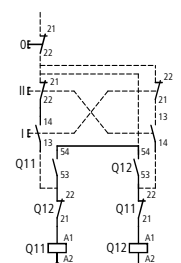
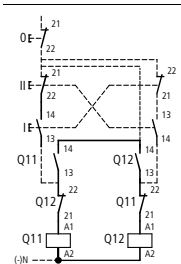


2)

Product Standards	IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05;
UL File No.	E29096
UL CCN	NLDX
CSA File No.	012528
CSA Class No.	2411-03, 3211-04
NA Certification	UL Listed, CSA certified

HP05053EN

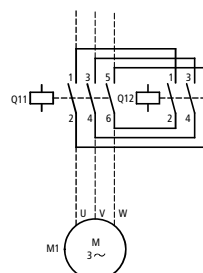
Individual components of the combination		Spare auxiliary contacts		Circuit diagram	Notes
Contactor Q11	Contactor Q12	Q11	Q12	Mechanical interlock	
Part no.	Part no.				
DILEM-10 + 11DILEM	DILEM-10 + 11DILEM			+	
DILEM-10-G + 11DILEM	DILEM-10-G + 11DILEM			+	
DILM7-01 + DILA-XHI20	DILM7-01 + DILA-XHI20			+	
DILM7-01 + DILA-XHI20	DILM7-01 + DILA-XHI20			+	
DILM9-01 + DILA-XHI20	DILM9-01 + DILA-XHI20			+	
DILM9-01 + DILA-XHI20	DILM9-01 + DILA-XHI20			+	
DILM12-01 + DILA-XHI20	DILM12-01 + DILA-XHI20			+	
DILM12-01 + DILA-XHI20	DILM12-01 + DILA-XHI20			+	
DILM17-01 + DILA-XHI20	DILM17-01 + DILA-XHI20			+	
DILM17-01 + DILA-XHI20	DILM17-01 + DILA-XHI20			+	
DILM25-01 + DILA-XHI20	DILM25-01 + DILA-XHI20			+	
DILM25-01 + DILA-XHI20	DILM25-01 + DILA-XHI20			+	
DILM32-01 + DILA-XHI20	DILM32-01 + DILA-XHI20			+	
DILM32-01 + DILA-XHI20	DILM32-01 + DILA-XHI20			+	
DILM40 + DILM150-XHI11	DILM40 + DILM150-XHI11	-	-	+	
DILM50 + DILM150-XHI11	DILM50 + DILM150-XHI11	-	-	+	
DILM65 + DILM150-XHI11	DILM65 + DILM150-XHI11	-	-	+	



Accessories
1 Overload relay
Accessories

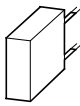
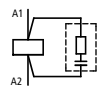

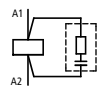

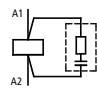

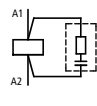

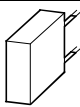
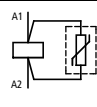

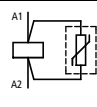

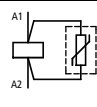

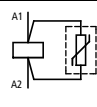

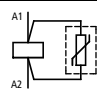

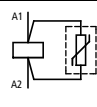

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Reversing contactors



DIULM7/21 to DIULM65/11 with mechanical interlock

Ordering

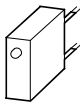
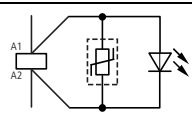

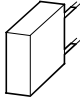
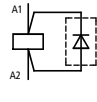

Voltage U_s V	For use with	Circuit symbol	Part no. Article no.	Price See price list	Std. pack	Notes
Suppressor circuits						
RC suppressors						
	24 - 48 AC		DILM12-XSPR48 281199		10 Off 	For AC operated contactors 50 - 60 Hz. DC operated contactors and DILM115 and DILM150 have an integrated suppressor. Note drop-out delay.
	110 - 240 AC		DILM12-XSPR240 281200			
	240 - 500 AC		DILM12-XSPR500 281201			
	24 - 48 AC		DILM12-XSPR48 281202		10 Off 	
	110 - 240 AC		DILM32-XSPR48 281202			
	240 - 500 AC		DILM32-XSPR500 281204			
	24 - 48 AC		DILM32-XSPR240 281203		10 Off 	
	110 - 240 AC		DILM32-XSPR240 281203			
	240 - 500 AC		DILM32-XSPR500 281204			
	24 - 48 AC		DILM95-XSPR48 281205		10 Off 	
	110 - 240 AC		DILM95-XSPR240 281206			
	240 - 500 AC		DILM95-XSPR500 281207			
Varistor suppressors						
	24 - 48 AC		DILM12-XSPV48 281208		10 Off 	For AC operated contactors 50 - 60 Hz. DC operated contactors and DILM115 and DILM150 have an integrated suppressor. Note drop-out delay.
	48 - 130 AC		DILM12-XSPV130 281209			
	130 - 240 AC		DILM12-XSPV240 281210			
	240 - 500 AC		DILM12-XSPV500 281211		10 Off 	
	24 - 48 AC		DILM12-XSPV48 281212			
	48 - 130 AC		DILM12-XSPV130 281213			
	130 - 240 AC		DILM12-XSPV240 281214		10 Off 	
	240 - 500 AC		DILM12-XSPV500 281215			
	24 - 48 AC		DILM32-XSPV48 281212			
	48 - 130 AC		DILM32-XSPV130 281213		10 Off 	
	130 - 240 AC		DILM32-XSPV240 281214			
	240 - 500 AC		DILM32-XSPV500 281215			
	24 - 48 AC		DILM95-XSPV48 281216		10 Off 	
	48 - 130 AC		DILM95-XSPV130 281217			
	130 - 240 AC		DILM95-XSPV240 281218			
	240 - 500 AC		DILM95-XSPV500 281219		10 Off 	

Information relevant for export to North America



Product Standards	IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking
UL File No.	E29096
UL CCN	NLDX
CSA File No.	227038
CSA Class No.	3211-07
NA Certification	UL Listed, CSA certified




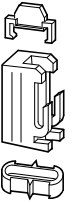



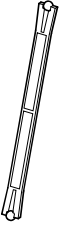
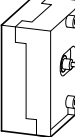

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Voltage U_s V	For use with	Circuit symbol	Part no. Article no.	Price See price list	Std. pack	Notes
Varistor suppressors with integrated LED						
 24 - 48 AC 130 - 240 AC	DILM7 - DILM15 DILMP20 DILA		DILM12-XSPVL48 281220		10 Off 	For AC operated contactors 50 - 60 Hz. DC operated contactors and DILM115 and DILM150 have an integrated suppressor. Note drop-out delay.
	24 - 48 AC 130 - 240 AC		DILM17 - DILM32 DILK12 - DILK25 DILL... DILMP32 - DILMP45	DILM32-XSPVL48 281222		
24 - 48 AC 130 - 240 AC	DILM40 - DILM95 DILK33 - DILK50 DILMP63 - DILMP200	DILM95-XSPVL48 281224				
		DILM32-XSPVL240 281223				
		DILM95-XSPVL240 281225				
Diode suppressor						
 12 - 250 DC	DILM7 - DILM15 DILMP20 DILA		DILM12-XSPD 101672		10 Off 	Additional for integrated suppressor with DC operated contactors. Prevention of negative switch-off voltage when the contactor is used together with a safety PLC.



















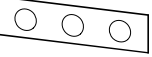

Information relevant for export to North America

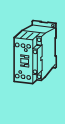



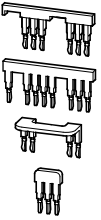

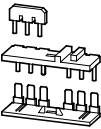





Product Standards	IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking
UL File No.	E29096
UL CCN	NLDX
CSA File No.	227038
CSA Class No.	3211-07
NA Certification	UL Listed, CSA certified


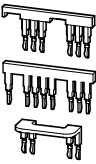




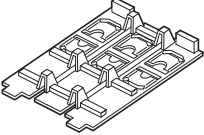




For use with	Part no.	Price See price list	Std. pack	Notes	Information relevant for export to North America 
Mechanical interlocks					
For mechanically linking contactors in combinations 0 mm distance between contactors.					
	DILM7 - DILM72 DILA	DILM32-XVB 281227	50 Off 	–	Product Standards IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking UL File No. E36332 UL CCN NLRV CSA File No. 012528 CSA Class No. 3211-05 NA Certification UL Recognized, CSA certified
	DILM80 - DILM170	DILM150-XVB 281226	10 Off 	–	Product Standards IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking UL File No. E29184 UL CCN NKCR CSA File No. 012528 CSA Class No. 3211-03 NA Certification UL Listed, CSA certified
Mechanical interlocks					
	DILM7 - DILM15 DILMP20 DILA	DILM12-XMV 281196	1 Off 	For two contactors with AC or DC operation arranged vertically or horizontally. Distance between contactors 0 mm, including contactor connector Mechanical lifespan 2.5 x 10 ⁶ operations. DILM 150-XMV including mounting plate for contactors. Additional auxiliary contact modules possible. → 5/38	Product Standards IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking UL File No. E29096 UL CCN NLDX CSA File No. 012528 CSA Class No. 2411-03 NA Certification UL Listed, CSA certified
	DILM17 - DILM38	DILM32-XMV 281197			Product Standards IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking UL File No. E29096 UL CCN NLDX CSA File No. 012528 CSA Class No. 2411-03, 3211-04 NA Certification UL Listed, CSA certified
	DILM40 - DILM72	DILM65-XMV 281198			Product Standards IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking UL File No. E29096 UL CCN NLDX CSA File No. 012528 CSA Class No. 2411-03, 3211-04 NA Certification UL Listed, CSA certified
	DILM80 - DILM170	DILM150-XMV 240081			Product Standards IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking UL File No. E29096 UL CCN NLDX CSA File No. 012528 CSA Class No. 2411-03 NA Certification UL Listed, CSA certified
	DILM185A, DILM225A, DILM250, DILM300A, DILM400, DILM500, DILM570	DILM500-XMV 208289			For contactors with the same or different magnet systems mounted horizontally or vertically, mechanical lifespan 5 x 10 ⁶ operations. No auxiliary contact permitted between mechanical interlock and contactor. Combination only with consecutive installation sizes or DILM185A - DILM570.
	DILM580, DILM650 DILM750, DILM820 DILM1000	DILM820-XMV 208288		For contactors with the same or different magnet systems mounted horizontally or vertically, mechanical lifespan 5 x 10 ⁶ operations. No auxiliary contact permitted between mechanical interlock and contactor. DILM820-XMV consists of interlock element and mounting plate.	
Set of spare parts for mechanical interlock					
Ball for mechanical interlock, incl. contactor connector.					
–	DILM80 - DILM170	DILM150-XMVE 107020	1 Off 		UL/CSA certification not required

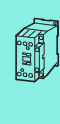
DILM...-XP1, DILM...-XS1










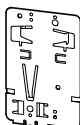


For use with	Circuit symbol	Part no.	Price See price list	Std. pack	Notes	Information relevant for export to North America 
Paralleling links for main contacts						
Consisting of 2 paralleling links						
	DILM7 - DILM15		DILM12-XP1 281193	5 Off 	4th pole can be broken off AC-1 current carrying capacity of the open contactor increases by a factor of 2.5 Protected against accidental contact in accordance with VDE 0106 Part 100 A cover is included with DILM185-XP1 for protection against accidental contact. Connection cross section for DILM...-XP1 Technical data	Product Standards IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking E29096 NLDX 012528 3211-03 UL Listed, CSA certified
	DILM17 - DILM32		DILM32-XP1 281194			
	DILM40 - DILM72		DILM65-XP1 281195	1 Off 		
	DILM80 - DILM170		DILM150-XP1 284769			
	DILM185A		DILM185-XP1 208292	1 Off		
Star-point bridges						
	DILM7 - DILM15		DILM12-XS1 281190	20 Off 	<ul style="list-style-type: none"> Designed as tool-less plug connection Use as DILA-XHIT... contactor auxiliary contact → 5/40 	Product Standards IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking E36332 NLRV 012528 3211-05 UL Listed, CSA certified
	DILM17 - DILM32		DILM32-XS1 281191			
	DILM40 - DILM72		DILM65-XS1 281192	10 Off 		Product Standards IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking E36332 NLRV 012528 3211-03 UL Listed, CSA certified
	DILM80 - DILM170		DILM150-XS1 284768	5 Off 		Product Standards IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking E36332 NLRV 012528 3211-03 UL Listed, CSA certified
	DILM185A - DILM400		DILM400-XS1 208291	1 Off 	A cover is included for protection against accidental contact.	Product Standards IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking E36332 NLRV 012528 3211-04 UL Listed
	DILM500		DILM500-XS1 208290		A cover is included for protection against accidental contact.	Product Standards IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking E29096 NLDX UL Listed



For use with	Part no.	Price See price list	Std. pack	Notes	Information relevant for export to North America 
Star-delta wiring kit					
Main current wiring for star-delta combination Including star-point bridge					
	DILM7/9/12/15 mains contactors DILM7/9/12/15 delta contactors DILM7/9/12/15 star contactors	DILM12-XSL 283130	1 Off 	<ul style="list-style-type: none"> Designed for tool-less plug connection Use as DILA-XHIT... contactor auxiliary contact → 5/40 The following control cables are integrated in addition to electrical interlock: <ul style="list-style-type: none"> Q13: A1 - Q15: 21 Q13: 21 - Q15: A1 Q13: A2 - Q15: A2 	Product Standards IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking 012528 3211-05 CSA certified CSA File No. CSA Class No. NA Certification
	DILM17/25/32 mains contactors DILM17/25/32 delta contactors DILM17/25/32 star contactors	DILM32-XSL 283131		Consists of the following connection bridges: <ul style="list-style-type: none"> Mains - delta contactors Delta - star contactors Star-point bridge 	Product Standards IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking E36332 NLRV 012528 3211-04 UL Listed, CSA certified UL File No. UL CCN CSA File No. CSA Class No. NA Certification
	DILM40/50/65 mains contactors DILM40/50/65 delta contactors DILM40/50/65 star contactors	DILM65-XSL 101058			
	DILM 80/95 mains contactors DILM80/95 delta contactors DILM50/65 star contactors	DILM95-XSL 101486	1 Off		-
	DILM 115/150 mains contactors DILM115/150 delta contactors DILM80/95/115 star contactors	DILM150-XSL 101487	1 Off 		Product Standards IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking E36332 NLRV 012528 2411-03, 3211-04 UL Listed, CSA certified UL File No. UL CCN CSA File No. CSA Class No. NA Certification
	DILM 185/225 mains contactors DILM185/225 delta contactors DILM115/150 star contactors	DILM225-XSL 101488	1 Off		-

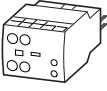
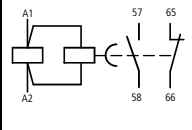

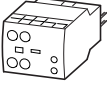
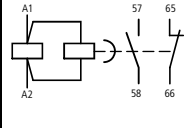

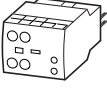
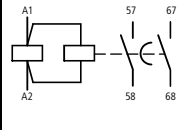

For use with	Part no.	Price See price list	Std. pack	Notes	Information relevant for export to North America 
Reversing starter wiring kits					
Main current wiring for reversing combinations					
	DILM7 DILM9 DILM12	DILM12-XRL 283108	1 Off 	<ul style="list-style-type: none"> Designed for tool-less plug connection As auxiliary contact DILA-XHIT...use → 5/40 The following control cables are integrated in addition to electrical interlock: <ul style="list-style-type: none"> Q11: A1 - Q12: 21 Q11: 21 - Q12: A1 Q11: A2 - Q12: A2 	Product Standards IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking E36332 UL File No. NLRV UL CCN 012528 CSA File No. 3211-05 CSA Class No. UL Listed, CSA certified NA Certification
	DILM17 DILM25 DILM32	DILM32-XRL 283109	-	-	Product Standards IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking E36332 UL File No. NLRV UL CCN 012528 CSA File No. 3211-04 CSA Class No. UL Listed, CSA certified NA Certification
	DILM40 DILM50 DILM65	DILM65-XRL 101057	-	-	Product Standards IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking E36332 UL File No. NLRV UL CCN 012528 CSA File No. 2411-03, 3211-04 CSA Class No. UL Listed, CSA certified NA Certification
	DILM80 DILM95 DILM115 DILM150	DILM150-XRL 101681	-	-	Product Standards IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking E36332 UL File No. NLRV UL CCN 012528 CSA File No. 2411-03, 3211-04 CSA Class No. UL Listed, CSA certified NA Certification
IP2X cover set					
	DILM17 DILM25 DILM32 DILM38 DILMP32 DILMP45	DILM32-XIP2X 118855	1 Off 	Each cover set consists of two three-pole and two single-pole covers.	UL/CSA certification not required
	DILM40 DILM50 DILM65 DILM72 DILMP63 DILMP80	DILM65-XIP2X 106491	8 Off 	2 covers are required per phase The cover set consists of 8 covers	UL/CSA certification not required
	DILM80 DILM95 DILM115 DILM150 DILM170 DILMP125 DILMP160 DILMP200 ZB150	DILM150-XIP2X 106492	-	-	UL/CSA certification not required



For use with	Part no.	Price See price list	Std. pack	Notes	Information relevant for export to North America  
Three-phase commoning links					
Protected against accidental contact, short-circuit proof, $U_e = 690\text{ V}$, $I_u = 35\text{ A}$ Can be extended by rotating by mounting					
	DILM7 DILM9 DILM12 DILM15	DILM12-XDSB0/3 240084	5 Off  	Suitable for 3 contactors. Length 112 mm	Product Standards IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking E36332 UL File No. UL CCN CSA File No. CSA Class No. NA Certification NLRV 012528 2411-03 UL Listed, CSA certified
	DILM7 DILM9 DILM12 DILM15	DILM12-XDSB0/4 240085		Suitable for 4 contactors. Length 157 mm	
	DILM7 DILM9 DILM12 DILM15	DILM12-XDSB0/5 240086		Suitable for 5 contactors. Length 202 mm	
Incoming connection block					
–	DILM7 DILM9 DILM12 DILM15	DILM12-XEK 240083	5 Off  	For three-phase commoning link, protected against accidental contact, $U_e = 690\text{ V}$, $I_u = 35\text{ A}$. Terminal capacities: Stranded 2.5...16 mm ² Flexible with ferrule 2.5...16 mm ² AWG14...8	Product Standards IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking E36332 UL File No. UL CCN CSA File No. CSA Class No. NA Certification NLRV 012528 2411-03 UL Listed, CSA certified
Adapter plate					
Enables clipping on of switches on to DIN rails					
	DILM80 DILM95 DILM115 DILM150 DILM170	NzM2-XC75 260215	1 Off  	For top-hat rail 75 mm	Product Standards UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking E140305 UL File No. UL CCN CSA File No. CSA Class No. NA Certification DIHS 022086 1437-01 UL Listed, CSA certified

DILM32-XTE

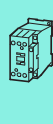
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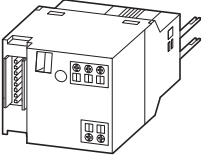


For use with	Circuit symbol	Part no. Article no.	Price See price list	Std. pack	Notes
Electronic timer modules					
On-delayed Cannot be combined with top mounting auxiliary contacts Incl. suppressor circuits					
 24 V AC/DC 100 ... 130 V AC 200 ... 240 V AC	DILM7 - DILM32 DILMP20 DILMP32-DILMP45 DILA		DILM32-XTEE11(RA24) 101440	1 Off 	Time range can be selected 0.05 s...1 s 0.5 s...10 s 5 s...100 s
			DILM32-XTEE11(RAC130) 101441		
			DILM32-XTEE11(RAC240) 101442		
Off-delayed, auxiliary voltage-free Cannot be combined with top mounting auxiliary contacts Incl. suppressor circuits					
 24 V AC/DC 100 ... 130 V AC 200 ... 240 V AC	DILM7 - DILM32 DILMP20 DILMP32-DILMP45 DILA		DILM32-XTED11-1(RA24) 105210	1 Off 	Time range 0.05 s...1 s
			DILM32-XTED11-10(RA24) 104943		Time range 0.5 s...10 s
			DILM32-XTED11-100(RA24) 104946		Time range 5 s...100 s
			DILM32-XTED11-1(RAC130) 105211		Time range 0.05 s...1 s
			DILM32-XTED11-10(RAC130) 104944		Time range 0.5 s...10 s
			DILM32-XTED11-100(RAC130) 104947		Time range 5 s...100 s
			DILM32-XTED11-1(RAC240) 105212		Time range 0.05 s...1 s
			DILM32-XTED11-10(RAC240) 104945		Time range 0.5 s...10 s
			DILM32-XTED11-100(RAC240) 104948		Time range 5 s...100 s
			For star-delta applications Cannot be combined with top mounting auxiliary contacts Incl. suppressor circuits		
 24 V AC/DC 100 ... 130 V AC 200 ... 240 V AC	DILM7 - DILM32 DILMP20 DILMP32-DILMP45 DILA		DILM32-XTEY20(RA24) 101446	1 Off 	Changeover time 1...30 s 50 ms changeover delay Sample circuit → Page 5/96
			DILM32-XTEY20(RAC130) 101447		
			DILM32-XTEY20(RAC240) 101448		

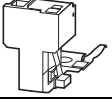

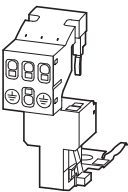

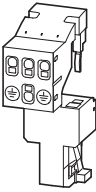

Information relevant for export to North America



Product Standards	IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking
UL File No.	E29184
UL CCN	NKCR
CSA File No.	012528
CSA Class No.	3211-03
NA Certification	UL Listed, CSA certified

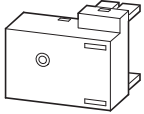


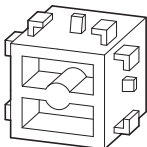


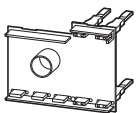
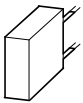


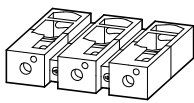


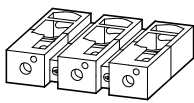




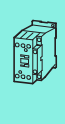
	For use with	Part no. Article no.	Price See price list	Std. pack	Notes
SWD contactor modules					
SmartWire-Darwin module for installation on contactors. One module per contactor					
	Two digital inputs for potential-free contacts. 1 electrical interlock for the surface mounting of reversing starters. Messages: Contactor switch status, status of the digital inputs 1 and 2. Commands: Contactor actuation	DILM(C)7... - DILM(C)32 DILM38 DILA	DIL-SWD-32-001¹⁾ 118560	5 Off 	<ul style="list-style-type: none"> Take into account the max. current consumption of the contactor coils per SmartWire-Darwin line. A2 terminals must not be bridged. Wiring sets DILM 12-XRL and PKZM0-XRM12 cannot be used. Connection terminals for electrical interlocking are not suitable for safety technology.
	Two digital inputs for potential-free contacts. 1 electrical interlock for the surface mounting of reversing starters. 1-0-A switch for manual or automatic operation. Messages: contactor switching position, status of the digital inputs 1 and 2, 1-0-A switch position. Commands: Contactor actuation	DILM(C)7... - DILM(C)32 DILM38 DILA	DIL-SWD-32-002¹⁾ 118561	5 Off 	


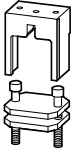
	For use with	Part no. Article no.	Price See price list	Std. pack	Notes
Wiring set for motor feeder plug					
	DILM(C)7 DILM(C)9 DILM(C)12 DILM(C)15	DILM12-XMCE²⁾ 121764		5 Off 	35x7.5 (15) mm mounting rail (as per DIN EN 60715) with PE function required. For connection of: PE 0.75 – 4 mm ²
	DILM(C)7 DILM(C)9 DILM(C)12 DILM(C)15	DILM12-XMCP/E²⁾ 121769		1 Off 	35x7.5 (15) mm mounting rail (as per DIN EN 60715) with PE function required. For connection of: L1, L2, L3, PE 0.75 – 2.5 mm ²
	PKZM0/PKE + DILM(C)7 PKZM0/PKE + DILM(C)9 PKZM0/PKE + DILM(C)12 PKZM0/PKE + DILM(C)15 MSC-D(E)-...-M7... MSC-D(E)-...-M9... MSC-D(E)-...-M15...	DILM12-XMCP/T²⁾ 121770		1 Off 	For connection of: L1, L2, L3, PE 0.75 – 2.5 mm ²



Information relevant for export to North America



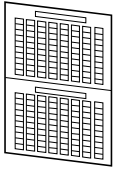

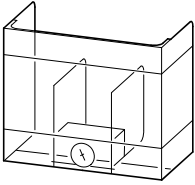

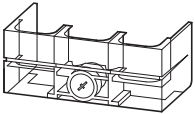

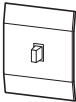


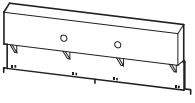

- 1) NA Certification Request filed for UL and CSA
 2) Product Standards IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking
 NA Certification Request filed for UL and CSA

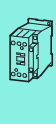
For use with	Part no. Article no.	Price See price list	Std. pack	Notes	Information relevant for export to North America	
Motor suppressor module						
Can be used at 380...575 V 50/60 Hz.						
	DILM7 - DILM15	DILM12-XMSM 109399	4 Off  	<ul style="list-style-type: none"> • Tool-less version using tool-less plug connection • RC suppressor • Ambient temperature -25...+60 °C, open. • Insulated material, difficult to ignite according to UL 94. • Weight = 0.05 kg. • UL/CSA approval applied for 	Product Standards UL File No. UL CCN NA Certification	IEC/EN 60947-4-1; UL 508; CE marking E300273 NMTR2 UL Recognized
Test block						
Suitable for switching on contactor off-load						
	DILM7 - DILM38 DILA	DILM32-XMAN 110955	1 Off  	-	UL/CSA certification not required	
Printed board contact						
For the adaption of a control circuit on a printed-circuit board						
	DILM7 - DILM15 DILA	DILM12-XPBC 109400	4 Off	-	-	
Load resistor						
For DC contactors in order to increase power consumption						
	DILM17 DILM25 DILM32 DILM38 DILMP32 DILMP45	DILM32-XSPLW24 112419	1 Off  	Installed in a suppressor circuit enclosure. Required when using special PLC outputs for actuation, e.g.: Beckhoff safety controllers.	Product Standards CSA File No. CSA Class No. NA Certification	IEC/EN 60947-4-1; CSA-C22.2 No. 14-05; CE marking 225135 3211-07 CSA certified
Extension terminals						
With control circuit terminal						
Consisting of three flat ribbon terminals						
	DILM80 DILM95 DILM115 DILM150 DILM170	DILM150-XZK 104486	10 Off  	Can be fitted on every main terminal of the contactor. Connection options: maximum 2 x 4 mm ² solid maximum 2 x 2.5 mm ² flexible with ferrule	Product Standards UL File No. UL CCN CSA File No. CSA Class No. NA Certification	IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking E29184 NKCR 012528 2411-03, 2411-04 UL Listed, CSA certified
Cable terminal block						
With control circuit terminal						
Consisting of three flat ribbon terminals						
	DILM250 DILM300A DILM400	DILM400-XKU-S 208293	1 Off  	Connection options: round conductors, flexible and stranded, ribbon cables.	Product Standards UL File No. UL CCN CSA File No. CSA Class No. NA Certification	IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking E29184 NKCR 012528 3211-04 UL Listed, CSA certified



For use with	Part no. Article no.	Price See price list	Std. pack	Notes	Information relevant for export to North America 
Flat strip conductor terminal kit					
With control cable connection					
	DILM580 DILM650 DILM750 DILM820	DILM820-XKB-S 208295	1 Off	Connection options: ribbon cables	

Conductor material	Cross-section X number of cores mm ²	For use with	Part no. Article no.	Price See price list	Std. pack	Notes	Information relevant for export to North America 
Connection terminal sets for North America							
Consist of three individual terminals							
Copper, aluminum	2 x (AWG4 ... MCM500)	DILM500/22	DILM500-XK-CNA 232192		1 Off 	Including cover With control cable connec- tion	Product Standards IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking
Copper, aluminum	4 x (AWG2 ... MCM500)	DILM580/22 DILM650/22 DILM750/22 DILM820/22	DILM820-XK-CNA 232194				UL File No. UL CCN CSA File No. CSA Class No. NA Certification E29184 NKCR 012528 3211-04 UL Listed, CSA certified

Description	For use with	Part no. Article no.	Price See price list	Std. pack	Notes	Information relevant for export to North America 
Sealable shrouds						
Transparent 	DILM32-XTE...	DILM32-XTEPLH 101449		1 Off	-	-
Device labelling, label sheet						
7.5 x 17 mm Colour: yellow HKS 3 (≈RAL 1018) 	Labelling with laser printer, plotter, film plotter, copier	XGKE-GE 207517		25 Off 	1 off = 1 sheet 240 labels per sheet 1 sheet = DIN A4, Can be split into two DIN A5 sheets	UL/CSA certification not required
Covers						
Terminal cover 	DILM185A DILM225A DILM250 DILM300A DILM400 DILM500 DILM580 DILM650 DILM750 DILM820, DILM1000	DILM225A-XHB 139560 DILM400-XHB 208287 DILM500-XHB 208286 DILM650-XHB 208285 DILM820-XHB 208284		1 Off 	To provide terminals with protection against accidental contact vertical from the front	UL/CSA certification not required
Shroud for star-point bridge 	DILM400-XS1	DILM400-XHBS1 101687		1 Off 	Can be combined with star-delta wiring kits DILM250-XSL and DILM400-XSL.	UL/CSA certification not required
Auxiliary contact seat cover						
	DILM7 - DILM38 DILMP32 DILMP45 DILA DILL	DILM32-XAB 129538		10 Off 	For preventing manual actuation. Cannot be combined with additional surface mounting accessories.	UL/CSA certification not required
	DILM40 - DILM170 DILMP63 - DILMP200	DILM150-XAB 121712				
Suppressor circuits for vacuum contactors (on load side)						
	DILM580 DILM650 DILM750 DILM820 DILM1000 DILH2000 DILH2200 DILH2600	DILM1000-XSM 125947 DILH2600-XSM 125946		1 Off 	For damping the cutout overvoltage when switching off inductive loads.	NA Certification Request filed for UL and CSA

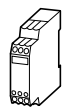


Rated operational current	AC-15		DC		Actuating voltage	Actuating current	Circuit symbol	For use with	Part no.	Price See price list	Std. pack	Information relevant for export to North America
	230 V	400 V	220 V									
I_e	I_e	I_e	I_e		U_s	I						
A	A	A	A		V DC	mA						

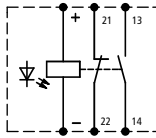


Amplifier module for separate mounting

Input with integrated suppressor circuit for overvoltage limitation



2	2	0.03	24	25
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...DILM
DIMLP...
DILL...
DILK...

ETS4-VS3
083094

1 Off

Product Standards	IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking
UL File No.	E29184
UL CCN	NKCR
CSA File No.	012528
CSA Class No.	2411-03, 3211-04
NA Certification	UL Listed, CSA certified

Notes Contactor coils with rated operational current > 2 A must be actuated via the DILER-G mini contactor relay.
Rated operational current DC:
Making and breaking conditions DC-13, time L/R 300ms

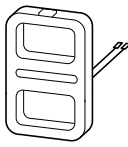

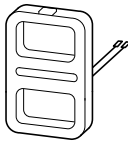
For use with	DC voltage	Prices See price list	AC voltage	Price See price list	Std. pack	Notes
	Part no. Article no.		Part no. Article no.			
 DILM17 DILM25 DILM32 DILM38 DILM40 DILM50 DILM65 DILM72 DILM80 DILM95 DILM115 DILM150 DILM170 DILM185A DILM225A	DILM32-XSP(RDC24) ¹⁾ 281155		DILM32-XSP(230V50HZ,240V60HZ) 281141		1 Off For additional actuating voltages → Page 5/79	
	DILM65-XSP(RDC24) ¹⁾ 281185		DILM65-XSP(230V50HZ,240V60HZ) 281171			
	DILM95-XSP(RDC24) ¹⁾ 230080		DILM95-XSP(230V50HZ,240V60HZ) 230062			
	DILM150-XSP(RDC24) ¹⁾ 230115		DILM150-XSP(RAC240) ¹⁾ 230112			
	DILM225A-XSP(RDC24) ¹⁾ 139568		DILM225A-XSP(RAC240) ¹⁾ 139565			

Notes ¹⁾ Incl. electronic module



Information relevant for export to North America

Product Standards	IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking
UL File No.	E29096
UL CCN	NLDX
CSA File No.	012528
CSA Class No.	2411-03, 3211-04
NA Certification	UL Listed, CSA certified

For use with	DC voltage		AC voltage		Std. pack	Notes
	Part no. Article no.	Price See price list	Part no. Article no.	Price See price list		
Electronic modules including coils						
	DILM250 DILM300A	DILM250-XSP/E(RA250) ¹⁾ 208252		DILM250-XSP/E(RA250) ¹⁾ 208252	1 Off 	For additional actuating voltages → Page 5/81
	DILM400 DILM500	DILM500-XSP/E(RA250) ¹⁾ 208256		DILM500-XSP/E(RA250) ¹⁾ 208256		
	DILM580 DILM650 DILM750 DILM820 DILM1000	DILM1000-XSP/E(RA250) ¹⁾ 289145		DILM1000-XSP/E(RA250) ¹⁾ 289145		
	DILH1400	–		DILH1400-XSP/E(RAW250) ²⁾ 289161		
	DILM250-S DILM300A-S	–		DILM250-S-XSP/E(220-240V50/60HZ) ²⁾ 274202		
	DILM400-S DILM500-S	–		DILM500-S-XSP/E(220-240V50/60HZ) ²⁾ 274205		

1)

2)

Information relevant for export to North America



Product Standards IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05;
CE marking
UL File No. E29096
UL CCN NLDX
CSA File No. 1017510
CSA Class No. 3211-04
NA Certification UL Listed, CSA certified

Information relevant for export to North America



Product Standards IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05;
CE marking
UL File No. E29096
UL CCN NLDX
CSA File No. 012528
CSA Class No. 3211-04
NA Certification UL Listed, CSA certified

