

**DILEM Mini Contactor Relays**  
3-pole, 4-pole Basic Units, Modules

Contactors

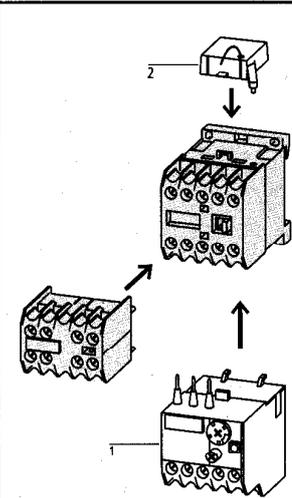
	Rated operational current	Max. three-phase motor rating 50 – 60 Hz						Conv. therm. current $I_{th} = I_e$ AC-1 Open/ enclosed	Contacts M = Make B = Break	Terminal markings	Circuit diagrams	Combination options
		AC-3		AC-3		AC-4						
	380 V 400 V	220 V 230 V	380 V 400 V	660 V 690 V	220 V 230 V	380 V 400 V	660 V 690 V	A				
	A	kW	kW	kW	kW	kW	kW					
<b>Basic units</b>												
3-pole, with auxiliary contacts  	6.6	1.5	3	3	1.1	2.2	2.2	20/16	1 M	–		● –
	6.6	1.5	3	3	1.1	2.2	2.2		–	1 B		– ●
	8.8	2.2	4	4	1.5	3	3		1 M	–		● –
	8.8	2.2	4	4	1.5	3	3		–	1 B		– ●
4-pole									–	–		● –
<b>Auxiliary contact modules</b>												
2-pole  								10	–	2 B		● –
									1 M	1 B		● –
4-pole									2 M	2 B		● –
2-pole								10	–	2 B		● ●
									1 M	1 B		● ●
									2 M	–		● ●
									1 M <sup>1)</sup>	1 B <sup>1)</sup>		● ●
4-pole								10	–	4 B		● ●
									1 M	3 B		● ●
									2 M	2 B		● ●
									3 M	1 B		● ●
									4 M	–		● ●
									2 M <sup>1)</sup>	2 B <sup>1)</sup>		● ●

Notes

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

**DILEM Mini Contactor Relays**  
3-pole, 4-pole Basic Units, Modules

AC operation		DC operation		Notes
Type	Price	Type	Price	
Article no.	See Price List	Article no.	See Price List	Std. pack
DILEEM-10(230V50HZ) 051608		DILEEM-10-G(24VDC) 051643		1 off
DILEEM-01(230V50HZ) 051633		DILEEM-01-G(24VDC) 051650		
DILEEM-10(230V50HZ) 051786		DILEEM-10-G(24VDC) 010213		
DILEEM-01(230V50HZ) 051795		DILEEM-01-G(24VDC) 010343		
DILEEM-4(230V50HZ) 051804		DILEEM-4-G(24VDC) 012701		
02DILEM 010064		02DILEM 010064		5 off
11DILEM 010080		11DILEM 010080		
22DILEM 010112		22DILEM 010112		
02DILE 010240		02DILE 010240		5 off
11DILE 010224		11DILE 010224		
20DILE 010208		20DILE 010208		
11DDILE 049824		11DDILE 049824		
04DILE 010256		04DILE 010256		5 off
13DILE 002397		13DILE 002397		
22DILE F 010288		22DILE F 010288		
31DILE 048912		31DILE 048912		
40DILE 010304		40DILE 010304		
22DDILE 049823		22DDILE 049823		



Accessories	Page
1 Overload relay	06/004
2 Suppressor	05/041
Enclosure <small>Totally Insulated</small>	05/064
Other actuating voltages	05/051
Accessories	05/041

Mini contactors with interlocked opposing contacts.  
Not in the case of early-make or late-break contacts.  
The DC-operated contactors have an integral diode/resistor combination.  
Coil rating: 2.6 W

Contactors contacts to EN 50 012  
Auxiliary contact module contacts:  
...DILEM to EN 50 012  
...DILE to EN 50 005  
Contacts to EN 50 012 should be given preference

**DIL Contactors**  
3-pole, 4-pole Basic Units, Modules

Contactors

	Rated operational current $I_e$	Max. three-phase motor rating 50 – 60 Hz						Conv. therm. current $I_{th} = I_e$ AC-1 Open/ enclosed	Contacts M = Make B = Break	Terminal markings	Combination options	
		AC-3		AC-3		AC-4						
	380 V 400 V	220 V 230 V	380 V 400 V	660 V 690 V <sup>1)</sup>	220 V 230 V	380 V 400 V	660 V 690 V <sup>1)</sup>	A				
	A	kW	kW	kW	kW	kW	kW				Circuit diagrams	
<b>Basic units</b>												
3-pole	8.8	2.2	4	5.5	1.5	3	4	20/16	–	–		● –
	12	3	5.5	7.5	2.2	4	5.5	20/16	–	–		● –
	15.5	4	7.5	7.5	2.2	4	5.5	20/16	–	–		● –
	15.5	4	7.5	7.5	2.2	4	5.5	20/16	–	1 B		● <sup>4)</sup> –
	15.5	4	7.5	7.5	2.2	4	5.5	20/16	1 M	–		● <sup>4)</sup> –
	15.5	4	7.5	11	3	5.5	7.5	35/30	–	–		– ● <sup>5)</sup>
	22.5	5.5	11	15	4	7.5	11	35/30	–	–		– ● <sup>5)</sup>
	30	7.5	15	18.5	5.5	11	15	55/44	–	–		– ●
	36	11	18.5	22	7.5	15	18.5	55/44	–	–		– ●
	43	15	22	30	11	18.5	22	90/80	–	–		– ●
	58	18.5	30	37	15	22	30	90/80	–	–		– ●
4-pole	8.8	2.2	4	5.5	1.5	3	4	20/16	–	–		● –
<b>Auxiliary contact modules</b>												
Side mounting												
								10	1 M	1 B		– ●
								10	1 M <sup>3)</sup>	1 B <sup>3)</sup>		– ●
								16	1 M	–		– ●
									–	1 B		– ●
									1 M	1 B		– ●
Top mounting									1 M	1 B		● ●
									2 M	2 B		● ●
									3 M	1 B		● ●
									2 M <sup>3)</sup>	2 B <sup>3)</sup>		● ●

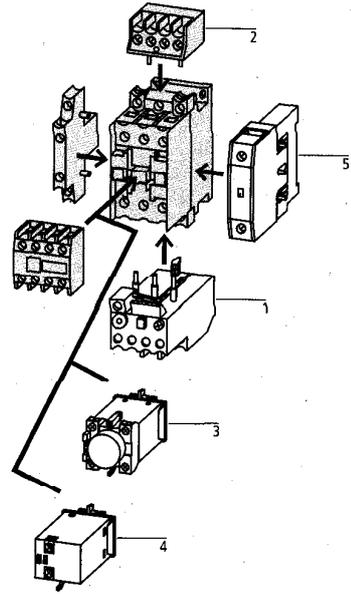
**Notes**

- <sup>1)</sup> Do not reverse directly
- <sup>2)</sup> Compact contactors
- <sup>3)</sup> 1 early-make contact, 1 late-break contact
- <sup>4)</sup> Contact markings are duplicated where a top mounting auxiliary contact is used
- <sup>5)</sup> Do not combine a DIL0(A)M-G with a DILM820-XHI..

**DIL Contactors**

3-pole, 4-pole Basic Units, Modules

AC operation		DC operation		Notes	
Type	Price	Type	Price		
Article no.	See Price List	Article no.	See Price List	Std. pack	
DIL00M(230V50HZ) 061217		DIL00M-G(24VDC) 048587		1 off	
DIL00AM(230V50HZ) 061224		DIL00AM-G(24VDC) 048567			
DIL00BM(230V50HZ) 061233		DIL00BM-G(24VDC) 048572			
DIL00BM-01(230V50HZ) 061249		DIL00BM-G-01(24VDC) 048577			
DIL00BM-10(230V50HZ) 061241		DIL00BM-G-10(24VDC) 048582			
DIL0M(230V50HZ) 061257		DIL0M-G(24VDC) 048597			
DIL0AM(230V50HZ) 061265		DIL0AM-G(24VDC) 048592			
DIL1M(230V50HZ) 061273		DIL1M-G(24VDC) 048605			
DIL1AM(230V50HZ) 061457		DIL1AM-G(24VDC) 048602			
DIL2M(230V50HZ) 046566		DIL2M-G(24VDC) 048615			
DIL2AM(230V50HZ) 046574		DIL2AM-G(24VDC) 048610			
DIL00M4(230V50HZ) 046929		DIL00M4-G(24VDC) 063171			
DILM820-XHI11-SI 208281		DILM820-XHI11-SI 208281		2 off	
DILM820-XHI11V-SI 208283		DILM820-XHI11V-SI 208283		2 off	
10SDILM 089080		10SDILM 089080		5 off	
01SDILM 001930		01SDILM 001930			
11SDILM 024626		11SDILM 024626			
11DILM 017507		11DILM 017507			
22DILM 019880		22DILM 019880			
31DILM 022253		31DILM 022253			
22DDILM 026999		22DDILM 026999			



**Accessories**

Accessories	Page
1 Overload relay	06/004
	06/006
2 Amplifier module or suppressor circuit	05/040
	05/041
3 Pneumatic timer module	05/045
4 Mechanical latching module	05/045
5 Additional 4th pole from DIL0M(-G)	05/045
Additional auxiliary contact modules	04/010
Enclosure	05/064
Accessories	05/041
Other actuating voltages	05/052
	05/053
Mounting instructions	05/076

DILM820-XHI.. auxiliary contacts cannot be combined with auxiliary ..SDILM contact module.

Auxiliary contacts for side mounting can be combined with auxiliary contacts for top mounting up to a maximum of 5 contacts.

Maximum of one side-mounting auxiliary contact module on either side.

**DIL Contactors**  
Basic Units, Modules

Contactors

Rated operational current $I_e$	Max. three-phase motor rating				Conv. therm. current $I_{th} = I_e$	AC-1 Open/ enclosed	Contacts	Terminal markings	Combina- tion options
	AC-3	AC-3							
380 V 400 V	220 V 230 V	380 V 400 V	660 V 690 V	1000 V	220 V 230 V	380 V 400 V	660 V 690 V 2) 2)	1000V	M = Make B = Break
A	kW	kW	kW	kW	kW	kW	kW	kW	A

**Basic units**

	72	22	37	55	37	18.5	30	45	30	100/90		●
	85	25	45	75	45	22	37	45	37	100/90		●
	104	37	55	90	55	26	45	55	45	160/140		●
	142	45	75	110	65	30	55	75	55	160/140		●

**Auxiliary contact modules**

Side mounting



10	1 M	1 B		●
	1 M <sup>1)</sup>	1 B <sup>1)</sup>		●
	1 M	1 B		●

**Notes**

- 1) 1 early-make contact, 1 late-break contact
- 2) Do not reverse directly

**DIL Contactors**  
Basic Units, Modules

AC operation		DC operation		Notes
Type	Price	Type	Price	
Article no.	See Price List	Article no.	See Price List	Std. pack
<b>DIL3M80(230V50HZ)</b> 209694		<b>DIL3M80(24VDC)</b> 209709		1 off
<b>DIL3AM85(230V50HZ)</b> 209726		<b>DIL3AM85(24VDC)</b> 209737		
<b>DIL4M115(230V50HZ)</b> 209753		<b>DIL4M115(24VDC)</b> 209765		
<b>DIL4AM145(230V50HZ)</b> 209781		<b>DIL4AM145(24VDC)</b> 209792		
<b>DILM820-XHI11-SI</b> 208281		<b>DILM820-XHI11-SI</b> 208281		2 off
<b>DILM820-XHI11V-SI</b> 208283		<b>DILM820-XHI11V-SI</b> 208283		
<b>DILM820-XHI11-SA</b> 208282		<b>DILM820-XHI11-SA</b> 208282		

**AC-3, AC-4:**  
Do not directly reverse 660 V, 690 V or 1000 V

**Accessories** **Page**

1 Overload relay	06/004
2 Suppressor	05/041
Accessories	05/041

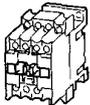
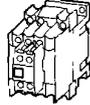
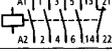
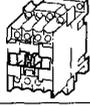
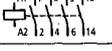
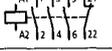
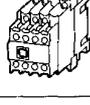
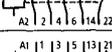
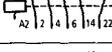
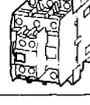
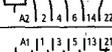
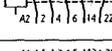
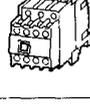
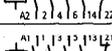
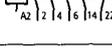
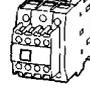
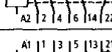
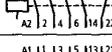
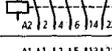
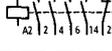
Auxiliary contact module fitting options:

The contactors can be snap-fitted onto a 75 mm top-hat rail to EN 50 023.  
The DC operated contactors have integral suppressor circuits (varistor).  
Up to 8 auxiliary contacts possible, but only up to 4 break contacts or 4 make contacts.  
No auxiliary contacts can be fitted between the mechanical interlock and the contactor.

Contactors

**DIL Contactors**  
Complete Units

Contactors

	Rated operational current $I_c$	Max. three-phase motor rating						Conv. therm. current $I_{th} = I_c$ AC-1 Open/ enclosed	Terminal markings	AC operation		
		AC-3			AC-4					Type	Price	Std. pack
		380 V 400 V	220 V 230 V	380 V 400 V	660 V 690 V	220 V 230 V	380 V 400 V					
A	kW	kW	kW	kW	kW	kW	A	Circuit diagrams				
	8.8	2.2	4	5.5	1.5	3	4	20/16		<b>DIL00M-10(230V50HZ)</b> 046646	3 off	
	8.8	2.2	4	5.5	1.5	3	4	20/16		<b>DIL00M-01(230V50HZ)</b> 046654		
	8.8	2.2	4	5.5	1.5	3	4	20/16		<b>DIL00M/11(230V50HZ)</b> 046662		
	8.8	2.2	4	5.5	1.5	3	4	20/16		<b>DIL00M/22(230V50HZ)</b> 046670		
	12	3	5.5	7.5	2.2	4	5.5	20/16		<b>DIL00AM-10(230V50HZ)</b> 046678		
	12	3	5.5	7.5	2.2	4	5.5	20/16		<b>DIL00AM-01(230V50HZ)</b> 046686		
	12	3	5.5	7.5	2.2	4	5.5	20/16		<b>DIL00AM/11(230V50HZ)</b> 046694		
	12	3	5.5	7.5	2.2	4	5.5	20/16		<b>DIL00AM/22(230V50HZ)</b> 046702		
	15.5	4	7.5	11	3	5.5	7.5	35/30		<b>DIL0M/11(230V50HZ)</b> 046710	2 off	
	15.5	4	7.5	11	3	5.5	7.5	35/30		<b>DIL0M/22(230V50HZ)</b> 046718		
	22.5	5.5	11	15	4	7.5	11	35/30		<b>DIL0AM/11(230V50HZ)</b> 046756		
	22.5	5.5	11	15	4	7.5	11	35/30		<b>DIL0AM/22(230V50HZ)</b> 046764		
	30	7.5	15	18.5	5.5	11	15	55/44		<b>DIL1M/22(230V50HZ)</b> 046772	1 off	
	36	11	18.5	22	7.5	15	18.5	55/44		<b>DIL1AM/22(230V50HZ)</b> 046780		
	43	15	22	30	11	18.5	22	90/80		<b>DIL2M/22(230V50HZ)</b> 046788		
	58	18.5	30	37	15	22	30	90/80		<b>DIL2AM/22(230V50HZ)</b> 046796		

**Notes**

- <sup>1)</sup> Mounting instructions → Page 05/076
- <sup>2)</sup> Do not reverse directly

**DIL Contactors**  
Complete Units

DC operation<sup>1)</sup>

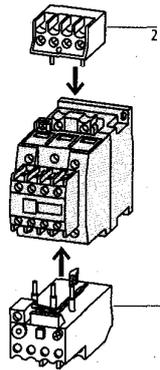
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Article no.

**Price**  
See Price List

**Notes**  
Std. pack

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DIL00M-G-01(24VDC) 048665
DIL00M-G/11(24VDC) 048675
DIL00M-G/22(24VDC) 048680
DIL00AM-G-10(24VDC) 048650
DIL00AM-G-01(24VDC) 048645
DIL00AM-G/11(24VDC) 048655
DIL00AM-G/22(24VDC) 048660
DIL0M-G/11(24VDC) 048686
DIL0M-G/22(24VDC) 048953
DIL0AM-G/11(24VDC) 049000
DIL0AM-G/22(24VDC) 049997
DIL1M-G/22(24VDC) 051692
DIL1AM-G/22(24VDC) 050858
DIL2M-G/22(24VDC) 051702
DIL2AM-G/22(24VDC) 051697

1 off

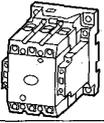
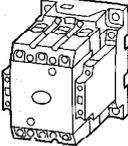
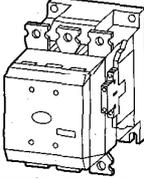
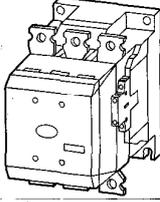
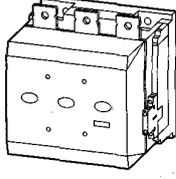
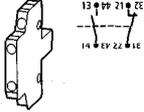
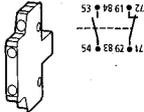
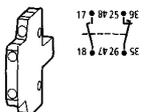


Accessories	Page
1 Overload relay	06/004 06/006
2 Amplifier module or suppressor circuit	05/047 05/041
Enclosure <small>(totally insulated)</small>	05/064
Accessories	05/041
Other actuating voltages	05/054 05/055

Terminal marking of coil to EN 50 005  
Contacts to EN 50 005 and EN 50 012

**DIL Contactors  
Complete Units**

Contactors

	Rated operational current $I_e$	Max. three-phase motor rating 50 – 60 Hz								Conv. therm. current $I_{th} = I_p$ AC-1 Open	AC operation	
		AC-3		AC-3			AC-4				Type	Price
	380 V 400 V	220 V 230 V	380 V 400 V	660 V 690 V	1000 V	220 V 230 V	380 V 400 V	660 V 690 V <sup>3)</sup>	1000 V <sup>3)</sup>	A	Article no.	See Price List
	A	kW	kW	kW	kW	kW	kW	kW	kW	A		
	72	22	37	55	37	18.5	30	45	38	100	<b>DIL3M80/22(230V50HZ)</b> 209869	
	85	25	45	75	45	22	37	45	46	100	<b>DIL3AM85/22(230V50HZ)</b> 209896	
	104	37	55	90	55	26	45	55	56	160	<b>DIL4M115/22(230V50HZ)</b> 209923	
	142	45	75	110	65	32	55	77	56	160	<b>DIL4AM145/22(230V50HZ)</b> 209950	
	185	55	90	175	108	41	75	127	108	225	<b>DILM185/22(RA250)<sup>1)</sup></b> 208193	
	225	70	110	215	108	51	90	155	108	250	<b>DILM225/22(RA250)<sup>1)</sup></b> 208197	
	250	75	132	240	108	62	110	189	108	300	<b>DILM250/22(RA250)<sup>1)</sup></b> 208201	
	300	90	160	286	132	75	132	229	132	350	<b>DILM300/22(RA250)<sup>1)</sup></b> 208205	
	400	125	200	344	132	92	160	283	132	450	<b>DILM400/22(RA250)<sup>1)</sup></b> 208209	
	500	155	250	344	132	112	200	344	132	550	<b>DILM500/22(RA250)<sup>1)</sup></b> 208213	
	580	185	315	560	600	143	250	440	509	630	<b>DILM580/22(RA250)<sup>1)</sup></b> 208216	
	650	205	355	630	600	161	280	494	509	700	<b>DILM650/22(RA250)<sup>1)</sup></b> 208219	
	750	240	400	720	800	181	315	556	678	800	<b>DILM750/22(RA250)<sup>1)</sup></b> 208222	
	820	260	450	750	800	209	355	633	678	850	<b>DILM820/22(RA250)<sup>1)</sup></b> 208225	
<b>Auxiliary contacts</b>												
Right or left, internal										10	<b>DILM820-XHI11-SI</b> 208281	
												
Right or left, external										10	<b>DILM820-XHI11-SA</b> 208282	
												
Right or left, internal										10	<b>DILM820-XHI11V-SI</b> 208283	
												

**Notes**

- <sup>1)</sup> 110 – 250 V AC/DC
- <sup>2)</sup> 24 – 48 V DC
- <sup>3)</sup> Do not reverse directly

**DIL Contactors**  
Complete Units

DC operation

Type	Price	
Article no.	See Price List	Std. pack

DIL3M80/22(24VDC) 209880		1 off
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DIL3AM85/22(24VDC) 209907		
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DIL4M115/22(24VDC) 209934		
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DIL4AM145/22(24VDC) 209961		
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DILM185/22(RDC48) <sup>2)</sup> 208191		1 off
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DILM225/22(RDC48) <sup>2)</sup> 208195		
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DILM250/22(RDC48) <sup>2)</sup> 208199		
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DILM300/22(RDC48) <sup>2)</sup> 208203		
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DILM400/22(RDC48) <sup>2)</sup> 208207		
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DILM500/22(RDC48) <sup>2)</sup> 208211		
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DILM580/22(RA250) <sup>1)</sup> 208216		
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DILM650/22(RA250) <sup>1)</sup> 208219		
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DILM750/22(RA250) <sup>1)</sup> 208222		
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DILM820/22(RA250) <sup>1)</sup> 208225		
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DILM820-XHI11-SI 208281		2 off
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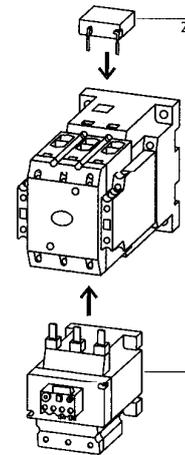
DILM820-XHI11-SA 208282		
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DILM820-XHI11V-SI 208283		
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**Notes**

**DIL3M80 to DIL4AM145:**

Accessories	Page
1 Overload relay	06/006
2 Suppressor	05/041
Enclosure <small>totally insulated</small>	05/064
Accessories	05/041
Other actuating voltages	05/055



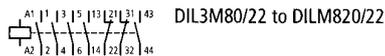
Contactors

**Terminal markings**

Coil to EN 50 005  
Contacts to EN 50 005 and EN 50 012

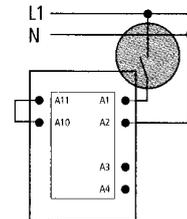
DIL3(A)M80/85 and DIL4(A)M115/145 can be snapped onto 75 mm top-hat rail to EN 50 023

DC operated contactors DIL3M80 to DIL4AM145 and all contactors DILM185 to DILM820 have an integral suppressor circuit.  
When operating DILM580 to DILM820 contactors with frequency inverter, the suppressor circuit on the load side must be removed.

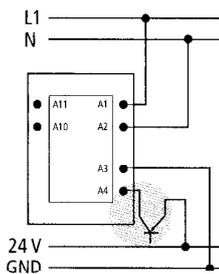
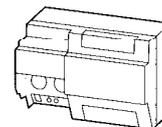


**Actuation options: DILM185 – DILM820**

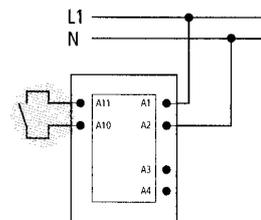
**Conventional:**  
A1/A2 have voltage applied, as normal.



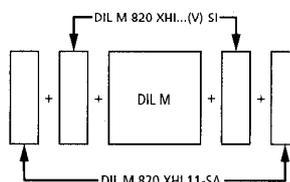
**Direct from the PLC:**  
A 24 V output from the PLC can be connected directly to the A3/A4 terminals



**From low-consumption command devices:**  
Low-consumption command devices, such as printed circuit board relays, control circuit devices or position switches can be connected directly to A10/A11.



**Auxiliary contact module fitting options:**



Max. 8 switching elements possible

DILM820-XHI11V-SI with one early-make and one late-break contact.

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