

xStart

Innovations for the contactors DIL.



xStart

The complete range of contactors, efficient motor-starters and controlled drives for the motor circuit. New simple to install solutions based on clever communication.

Contactors DIL

Motor protective circuit-breakers PKZ

Motor starters MSC

Softstarters DS, DM

Frequency inverters DF, DV

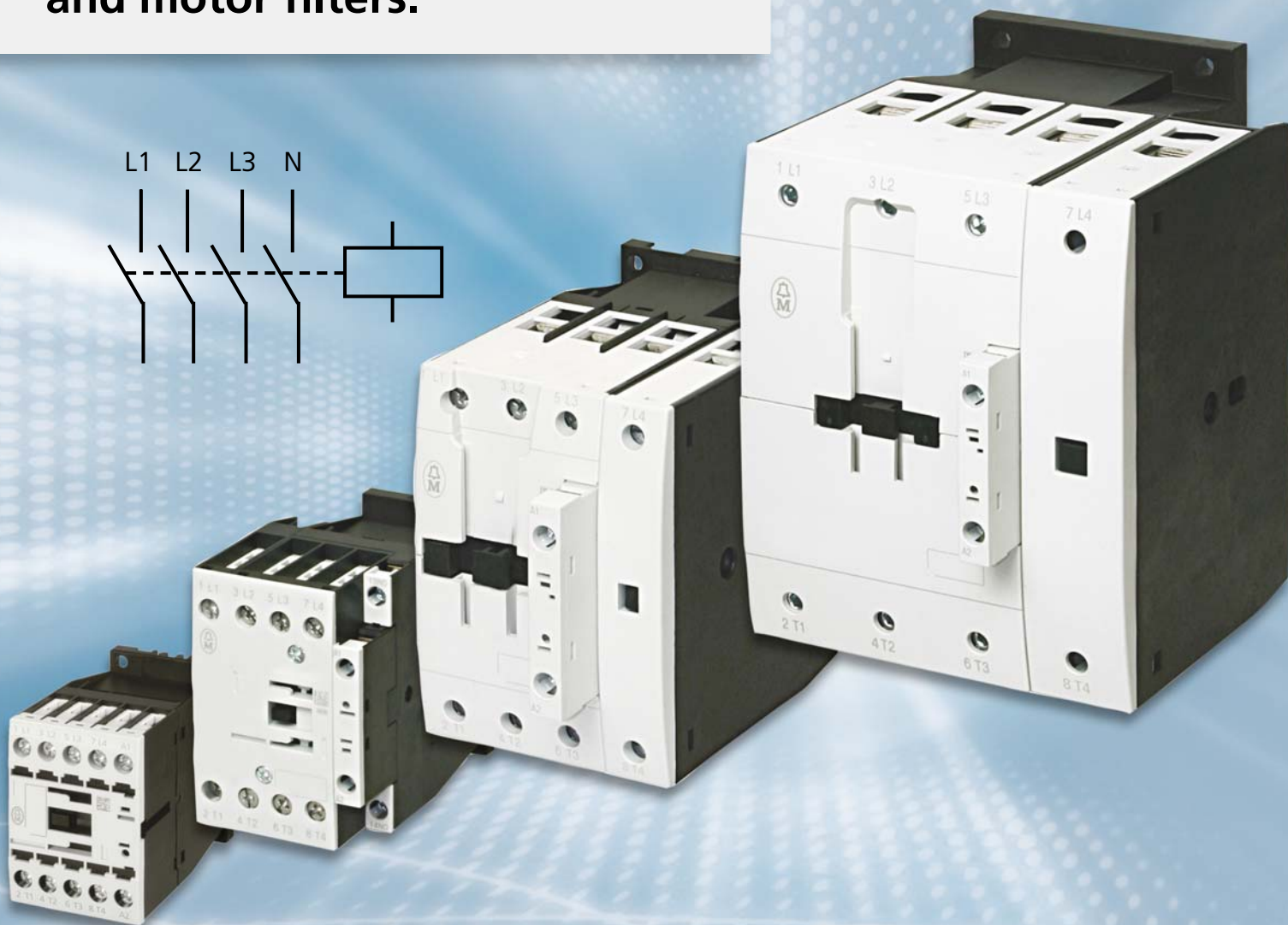
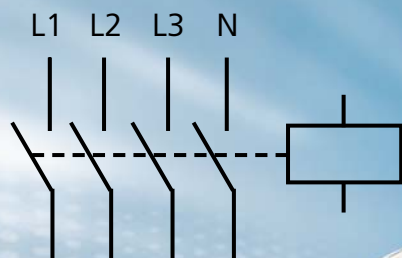
Rapid Link

Product information Innovations Contactors DIL

MOELLER

We keep power under control.

Four pole switching, simple plug-in of circuit-boards and motor filters.



New 4-pole contactors from the xStart series

The new 4-pole contactor from Moeller optimized for AC-1 switched loads. They are the specialists for applications where the mains is switched off or over, heating systems are switched and 4-pole loads are switched.

Four compact contactors cover the performance range up to 200 A. The identical size for AC and DC operated contactors as well as a common range of accessories for 3 and 4-pole contactors guarantee efficient and simple planning and engineering.

Easily accessible coil connections on the front, and a convenient box terminal with two separate cable connection areas provide significant advantages for fast and safe wiring. The mechanical interlock does not require additional installation width space.

The low holding power with DC operated contactors does not just reduce the heating in the control panel, but also increases the packing densities which provide the panel builders with tangible savings in energy costs.



**Simply select and order:
xStart 4-pole contactor catalogue**

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nk1171en





3-pole contactors				4-pole contactors		
AC-3 380 V/ 400 V		AC 230 V 50 HZ 240 V 60 Hz, 110 V 50 HZ 120 V 60 Hz, 24 V 50/60 Hz, DC 24 V ¹		AC-1 Conventional thermal current open		AC 230 V 50 HZ 240 V 60 Hz, o.RAC240 ³ , 110 V 50 HZ 120 V 60 Hz, 24 V 50/60 Hz, DC 24 VDC or RDC24 ⁴
I_e	P	Normally open	Part No.	$I_{th}=I_e$	N. open	Part No.
A	kW	Normally closed	Complete with above voltage	A	N. closed	Complete with above voltage
7	3	1N/O	DILM7-10 (...)	20	–	DILMP20 (...)
7	3	1N/C	DILM7-01(...)			
9	4	1N/O	DILM9-10 (...)			
9	4	1N/C	DILM9-01 (...)			
12	5.5	1N/O	DILM12-10 (...)			
12	5.5	1N/C	DILM12-01 (...)			
15.5	7.5	1N/O	DILM15-10 (...)			
15.5	7.5	1N/C	DILM15-01 (...)			
18	7.5	1N/O	DILM17-10 (...)	32 45	1N/O 1N/O	DILMP32-10 (...) DILMP45-10 (...)
18	7.5	1N/C	DILM17-01 (...)			
25	11	1N/O	DILM25-10 (...)			
25	11	1N/C	DILM25-01 (...)			
32	15	1N/O	DILM32-10 (...)			
32	15	1N/C	DILM32-01 (...)			
40	18.5	–	DILM40 (...)	63 80	– –	DILMP63 (...) DILMP80 (...)
50	22	–	DILM50 (...)			
65	30	–	DILM65 (...)			
72	37	–	DILM72 (...)			
80	37	–	DILM80 (...)	125 160 200	– – –	DILMP125 (...) DILMP160 (...) DILMP200 (...)
95	45	–	DILM95 (...)			
115	55	–	DILM115 (...) ²			
150	75	–	DILM150 (...) ²			
170	90	–	DILM170 (...) ²			

¹ Suppressor already integrated

² DILM 115, DILM 150, DILM 170
suppressor circuit also not required for AC version

³ For DILMP20 to DILMP80 230V50HZ240V60HZ applies, for DILMP125, DILMP160 and DILMP200 RAC240 applies

⁴ For DILMP20 24VDC applies, for DILMP32 to DILMP200 RDC24 applies



Auxiliary switch		Overload relay		Electronic timer module		Motor filter
AC 15, 380 V 400 V 415 V		Overload release, adjustment range		RAC240 = 200-240 V AC RAC130 = 100-130 V AC RA24 = 24 V AC/DC		DILM12-XMSM Note: The motor filter can be used for contactors DILM7 to DILM15.
Normally open	Part No.	I_r	Part No.	Time ranges	Complete Part No. DILM32-XTE...	
Normally closed		A				
1N/O 1N/C – 2N/C	DILM 32-XHI11⁵ DILM 32-XHI02⁵	0.1-0.16 0.16-0.24	ZB12-0,16 ZB12-0,24	on-delayed 0.05 s - 100 s	E11-100 (RA24) E11-100 (RAC130) E11-100 (RAC240)	
2N/O 2N/C	DILM 32-XHI22⁵	0.24-0.4	ZB12-0,4	0.05 s - 100 s		
2N/O –	DILA-XHI20	0.4-0.6	ZB12-0,6	0.05 s - 100 s		
1N/O 1N/C	DILA-XHI11	0.6-1	ZB12-1			
– 2N/C	DILA-XHI02	1-1.6	ZB12-1,6	off-delayed 0.05 s - 1 s	D11-1 (RA24)	
1N/O 1N/C	DILA-XHIV11	1.6-2.4	ZB12-2,4	0.5 s - 10 s	D11-10 (RA24)	
4N/O –	DILA-XHI40	2.4-4	ZB12-4	5 s - 100 s	D11-100 (RA24)	
3N/O 1N/C	DILA-XHI31	4-6	ZB12-6			
2N/O 2N/C	DILA-XHI22	6-10	ZB12-10			
1N/O 3N/C	DILA-XHI13	9-12	ZB12-12	0.05 s - 1 s	D11-1 (RA130)	
– 4N/C	DILA-XHI04	12-16	ZB12-16	0.5 s - 10 s	D11-10 (RA130)	
2N/O 2N/C	DILA-XHIV22			5 s - 100 s	D11-100 (RA130)	
	high version	0.1-0.16	ZB32-0,16			
2N/O –	DILA-XHIT20	0.16-0.24	ZB32-0,24	0.05 s - 1 s	D11-1 (RA240)	
1N/O 1N/C	DILA-XHIT11	0.24-0.4	ZB32-0,4	0.5 s - 10 s	D11-10 (RA240)	
– 2N/C	DILA-XHIT02	0.4-0.6	ZB32-0,6	5 s - 100 s	D11-100 (RA240)	
2N/O 2N/C	DILA-XHIT22	0.6-1	ZB32-1			
	side auxiliary switch only for DILM17, 25, 32	1-1.6	ZB32-1,6	star-delta 1 s - 30 s	Y20 (RA24)	
		1.6-2.4	ZB32-2,4	switch over delay 50 ms	Y20 (RAC130) Y20 (RAC240)	
1N/O 1N/C	DILM32-XHI11-S⁶	2.4-4	ZB32-4			
		4-6	ZB32-6			
		6-10	ZB32-10			
		10-16	ZB32-16			
		16-24	ZB32-24			
		24-32	ZB32-32			
2N/O –	DILM150-XHI20	6-10	ZB65-10			Printed board contact DILM12-XPBC Note: The printed board contact can be used for contactors DILM7 to DILM15.
1N/O 1N/C	DILM150-XHI11	10-16	ZB65-16			
– 2N/C	DILM150-XHI02	16-24	ZB65-24			
4N/O –	DILM150-XHI40	24-40	ZB65-40			
3N/O 1N/C	DILM150-XHI31	40-57	ZB65-57			
2N/O 2N/C	DILM150-XHI22	57-65	ZB65-65			
1N/O 3N/C	DILM150-XHI13					
– 4N/C	DILM150-XHI04	25-35	ZB150-35			
2N/O 2N/C	DILM150-XHIV22	35-50	ZB150-50			
1N/O 1N/C	DILM150-XHI11-SI	50-70	ZB150-70			
1N/O 1N/C	DILM150-XHIA11	70-100	ZB150-100			
		95-125	ZB150-125			
		120-142	ZB150-142			

⁵ not for combination with DILM...-01

⁶ can only be installed on left, can not be combined with top-mounting auxiliary contacts or mechanical interlocking



The xStart contactor series has been extended by two further current ranges

The series for contactors has been extended in 55 mm widths to 72 A and in 90 mm widths to 170 A.

With the smaller dimensions the DILM72 or the DILM170 are an attractively-priced alternative for simple switching conditions up to 37 kW and 90 kW respectively.

The known features of the xStart product series apply to the features of the new contactors: Proven quality, easy to install and low holding power on DC operated contactors are just some examples.



New motor filter for tool-less plug connection technology

High inductive voltage peaks during switch off exceed the operating voltage by several times and as a result overload the loads.

The motor filter is simply plugged into the contactors up to 15.5 A without any complex mounting operations.

The R/C suppressor circuit attenuates the voltage peaks to a low level so that the motor is protected.



Simple design of your own solution with tool-less plug connections

The advantages of the Moeller printed board contacts result from the simple mechanical connection between circuit boards and contactors. The board is mechanically retained on the fixing plate via clips. The printed board contact is bound in a 45 mm grid dimension. The shape of the fixing plate has the same contour as the contactor. Contactors can also be exchanged later – after a fault – without the need for soldering.

The printed board contact allows users to implement their own applications directly on the contactor.

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Xtra Combinations

Xtra Combinations from Moeller offers a range of products and services, enabling the best possible combination options for switching, protection and control in power distribution and automation.

Using Xtra Combinations enables you to find more efficient solutions for your tasks while optimising the economic viability of your machines and systems.

It provides:

- flexibility and simplicity
- great system availability
- the highest level of safety

All the products can be easily combined with one another mechanically, electrically and digitally, enabling you to arrive at flexible and stylish solutions tailored to your application – quickly, efficiently and cost-effectively.

The products are proven and of such excellent quality that they ensure a high level of operational continuity, allowing you to achieve optimum safety for your personnel, machinery, installations and buildings.

Thanks to our state-of-the-art logistics operation, our comprehensive dealer network and our highly motivated service personnel in 80 countries around the world, you can count on Moeller and our products every time. Challenge us! We are looking forward to it!

MOELLER



We keep power under control.