Industrial Switchgear
New Products Catalogue | 2007

4 Pole Switching with the DILMP Contactors

xStart

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

DIL contactors

PKZ motor-protective circuit-breakers

MSC motor-starters

DS 4 softstarters

DF & DV Drives

Rapid Link

MOELLER

We keep power under control.

Moeller NK2100-1171GB

4 pole DILMP contactors

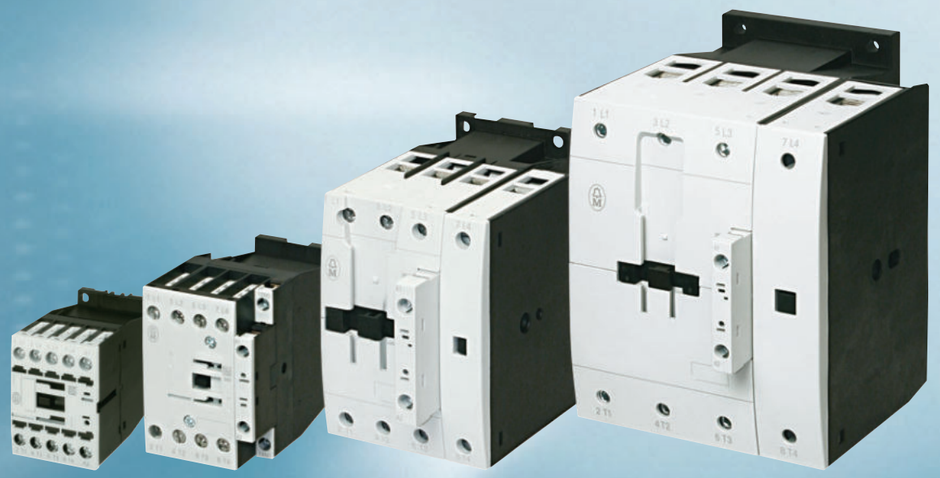
Industry and trade expect clear progress in electronics so that processes can be more efficiently designed - from planning via engineering to mounting and installation. The 4 pole DILMP contactor fulfills these demands completely with its optimised dimensioning and innovations in termination and actuation.

Typical application areas of the DILMP contactor are:
- Mains disconnection and mains changeover
- Switching of heating systems
- 4 pole load switching

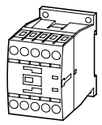
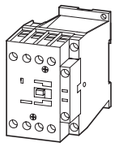
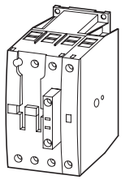
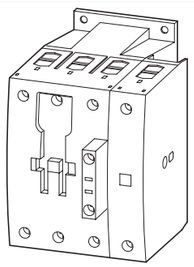
AC and DC contactor system xStart
4 pole DILMP contactor up to 200 A

- Identical frame sizes for AC and DC operated contactors simplify the engineering
- Minimised heat dissipation allows a higher packing density in the control panel
- Higher wiring safety due to double box terminals
- Less intermediate relays because contactors up to 45 A can be directly actuated from the PLC
- Simple engineering due to integrated suppressors in the DC operated contactors
- Two-way mechanical interlock can be mounted without extra distance between contactors
- Uniform accessories for 3 pole and 4 pole contactors

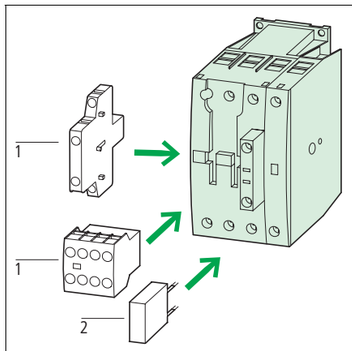
Page 2



xStart **DILMP 4 pole** Moeller NK2100-1171GB http://catalog.moeller.net

	Rated operational current 50 – 60 Hz open			Conventional thermal current $I_{th} = I_e$ AC-1	Contact sequence	Can be combined with auxiliary contact
	AC-1			Open		
	40 °C	50 °C	60 °C	$I_{th} = I_e$		
	A	A	A	A		
DILMP contactors						
	22	21	20	20		DILM32-XHI(C)... DILA-XHI(V)(C)...
	32	30	28	32		DILM32-XHI(C)... DILA-XHI(V)(C)...
	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		

http://catalog.moeller.net Moeller NK2100-1171GB **DILMP 4 pole** xStart

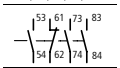
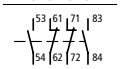
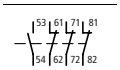
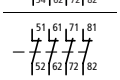
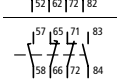
AC operation **Part no.** Article no.	**Price** see price list	DC operation **Part no.** Article no.	**Price** see price list	Std. pack	**Notes**
DILMP20(230V50HZ) 276970		**DILMP20(24VDC)** 276985		1 off	
DILMP32-10(230V50HZ) 109797		**DILMP32-10(RDC24)** 109811			
DILMP45-10(230V50HZ) 109826		**DILMP45-10(RDC24)** 109840			
DILMP63(230V50HZ) 109855		**DILMP63(RDC24)** 109869			
DILMP80(230V50HZ) 109884		**DILMP80(RDC24)** 109898			
DILMP125(RAC240) 109905		**DILMP125(RDC24)** 109910			
DILMP160(RAC240) 109915		**DILMP160(RDC24)** 109920			
DILMP200(RAC240) 109925		**DILMP200(RDC24)** 109930			

Accessories

1 auxiliary contact modules → 4
2 suppressor → 6
further actuating voltages → 8
Accessories → 7

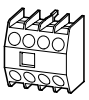
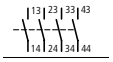
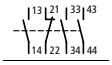
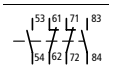
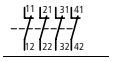
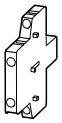
DC operated contactors have integral suppressors (DILMP20: varistor).
Contactors DILMP125, DILMP160 and DILMP200 have an integrated suppressor.

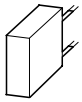
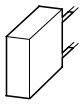
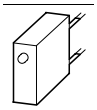
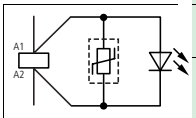
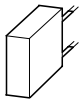
[1] DILM1000-XHI… can only be to DILMP… on the LHS

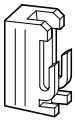
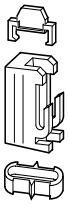
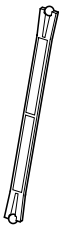
	Connection technique		Conventional thermal current $I_{th} = I_e$ AC-1 at 60 °C	Contacts		Contact sequence	Can be combined with basic unit	**Part no.** Article no.	**Price** see price list	Std. pack
			Open $I_{th} = I_e$ A	N/O = Normally open, N/O_E = Normally open (early make contact) N/C = Normally closed N/C_L = Normally closed (late break contact)						
Auxiliary contact modules										
With positively driven contacts; except XHIV and XHICV										
Top mounting auxiliary contacts										
	Screw terminals	2 pole	16	1 N/O	1 N/C		DILMP20 DILMP32-10 DILMP45-10	**DILM32-XHI11** 277376		5 off
			16	–	2 N/C			**DILM32-XHI02** 277375		
		4 pole	16	2 N/O	2 N/C			**DILM32-XHI22** 277377		
			16	3 N/O	1 N/C			**DILM32-XHI31** 106112		
	Screw terminals	2 pole	16	2 N/O	–		DILMP20 DILMP32-10 DILMP45-10	**DILA-XHI20** 276422		
			16	1 N/O	1 N/C			**DILA-XHI11** 276421		
			16	–	2 N/C			**DILA-XHI02** 276420		
			16	$1 N/O_E$	$1 N/C_L$			**DILA-XHIV11** 276423		
		4 pole	16	4 N/O	–			**DILA-XHI40** 276428		
			16	3 N/O	1 N/C			**DILA-XHI31** 276427		
			16	2 N/O	2 N/C			**DILA-XHI22** 276426		
			16	1 N/O	3 N/C			**DILA-XHI13** 276425		
			16	–	4 N/C			**DILA-XHI04** 276424		
			16	1 N/O, $1 N/O_E$	1 N/C, $1 N/C_L$			**DILA-XHIV22** 276429		

Notes

- Interlocked opposing contacts, to IEC/EN 60947-5-1 Annex L, within the auxiliary contact modules (not N/O (early make) and N/C (late break) contacts) and for the built-in auxiliary contacts of the DILM7 – DILM32
- Auxiliary break contact can be used as mirror contact to IEC/EN 60947-4-1 Annex F (not N/C (late break) contact)

	Connection technique	Conventional thermal current $I_{th} = I_e$ AC-1 Open $I_{th} = I_e$ A	Contacts N/O = Normally open, N/O_E = Normally open (early make contact) N/C = Normally closed N/C_L = Normally closed (late break contact)		Contact sequence	Can be combined with basic unit	**Part no.** Article no.	**Price** see price list	Std. pack
Auxiliary contact modules									
With positively driven contacts; except XHIV and XHICV									
	Screw terminals	2 pole	16	2 N/O	–		DILMP63 DILMP80 DILMP125 DILMP160 DILMP200	**DILM150-XHI20** 277945		5 off
			16	1 N/O	1 N/C			**DILM150-XHI11** 277946		
			16	1 N/O	1 N/C			**DILM150-XHIA11** 283463		
			16	–	2 N/C			**DILM150-XHI02** 277947		
	Screw terminals	4 pole	16	4 N/O	–			**DILM150-XHI40** 277948		
			16	3 N/O	1 N/C			**DILM150-XHI31** 277949		
			16	2 N/O	2 N/C			**DILM150-XHI22** 277950		
			16	2 N/O	2 N/C			**DILM150-XHIA22** 283464		
			16	1 N/O	3 N/C			**DILM150-XHI13** 277951		
			16	–	4 N/C			**DILM150-XHI04** 277952		
			16	1 N/O, 1 N/O_E	1 N/C, 1 N/C_L			**DILM150-XHIV22** 277953		
Side mounting auxiliary contacts									
	Screw terminals	2 pole	10	1 N/O	1 N/C		DILMP63 DILMP80 DILMP125 DILMP160 DILMP200	**DILM1000-XHI11-SI** 278425		1 off
			10	1 N/O_E	1 N/C_L			**DILM1000-XHIV11-SI** 278426		
			10	1 N/O	1 N/C			**DILM1000-XHI11-SA** 278427		

	Voltage U_s V	For use with	Contact sequence	Part no. Article no.	Price see price list	Std. pack	Notes
Suppressors							
RC suppressors							
	24 – 48 AC	DILMP20		**DILM12-XSPR48** 281199		10 off	For AC-operated contactors 50 – 60 Hz. With DC operated contactors and with DILM115 and DILM150 or DILMP125 to DILMP 200 the suppressor is integrated. Note drop-out delay
	110 – 240 AC			**DILM12-XSPR240** 281200			
	240 – 500 AC			**DILM12-XSPR500** 281201			
	24 – 48 AC	DILMP32 DILMP45		**DILM32-XSPR48** 281202			
	110 – 240 AC			**DILM32-XSPR240** 281203			
	240 – 500 AC			**DILM32-XSPR500** 281204			
	24 – 48 AC	DILMP63 DILMP80		**DILM95-XSPR48** 281205			
	110 – 240 AC			**DILM95-XSPR240** 281206			
	240 – 500 AC			**DILM95-XSPR500** 281207			
Varistor suppressors							
	24 – 48 AC	DILMP20		**DILM12-XSPV48** 281208		10 off	For AC-operated contactors 50 – 60 Hz. With DC operated contactors and with DILM115 and DILM150 or DILMP125 to DILMP 200 the suppressor is integrated. Note drop-out delay
	48 – 130 AC			**DILM12-XSPV130** 281209			
	130 – 240 AC			**DILM12-XSPV240** 281210			
	240 – 500 AC			**DILM12-XSPV500** 281211			
	24 – 48 AC	DILMP32 DILMP45		**DILM32-XSPV48** 281212			
	48 – 130 AC			**DILM32-XSPV130** 281213			
	130 – 240 AC			**DILM32-XSPV240** 281214			
	240 – 500 AC			**DILM32-XSPV500** 281215			
	24 – 48 AC	DILMP63 DILMP80		**DILM95-XSPV48** 281216			
	48 – 130 AC			**DILM95-XSPV130** 281217			
	130 – 240 AC			**DILM95-XSPV240** 281218			
	240 – 500 AC			**DILM95-XSPV500** 281219			
Varistor suppressors with integated LED							
	24 – 48 AC	DILMP20		**DILM12-XSPVL48** 281220		10 off	For AC-operated contactors 50 – 60 Hz. With DC operated contactors and with DILM115 and DILM150 or DILMP125 to DILMP 200 the suppressor is integrated. Note drop-out delay
	130 – 240 AC			**DILM12-XSPVL240** 281221			
	24 – 48 AC	DILMP32 DILMP45		**DILM32-XSPVL48** 281222			
	130 – 240 AC			**DILM32-XSPVL240** 281223			
	24 – 48 AC	DILMP63 DILMP80		**DILM95-XSPVL48** 281224			
	130 – 240 AC			**DILM95-XSPVL240** 281225			
Free-wheel diode suppressor							
	12 – 250 DC	DILMP20		**DILM12-XSPD** 101672		10 off	In addition to the built-in suppressor circuit for DC actuated contactors. Prevents negative breaking voltage when contactors are used in combination with a safety PLC.

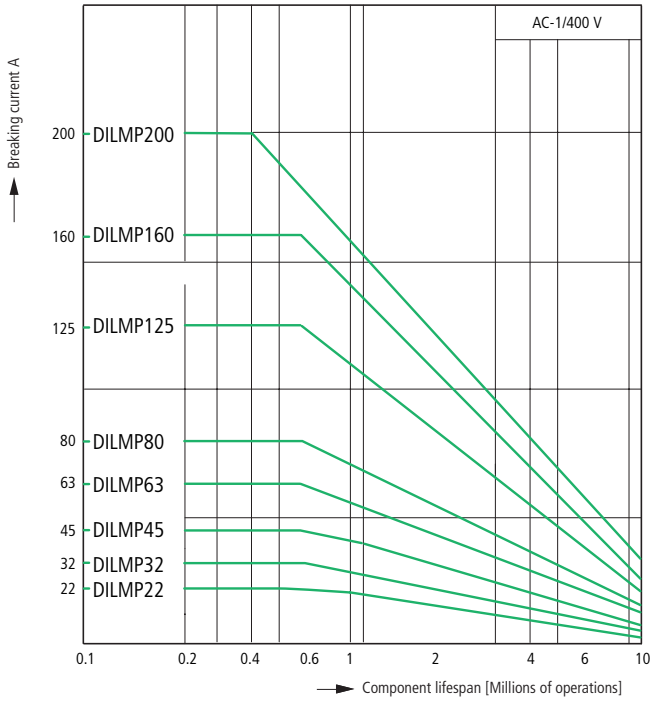
	For use with	Part no. Article no.	Price see price list	Std. pack	Notes
Links					
	DILMP20 – DILMP80	**DILM32-XVB** 281227		50 off	For mechanically arranging contactors in combinations. Distance between contactors 0 mm
	DILMP125 – DILMP200	**DILM150-XVB** 281226		10 off	
Mechanical interlocks					
	DILMP20	**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 × 10^6 operations. Additional auxiliary contact module possible → page 4. DILM150-XMV comes with mounting plate for contactors.
	DILMP32 – DILMP45	**DILM32-XMV** 281197			
	DILMP63 – DILMP80	**DILM65-XMV** 281198			
	DILMP125 – DILMP200	**DILM150-XMV** 240081			
Set of spare parts for mechanical interlock					
	DILMP125 – DILMP200	**DILM150-XMVE** 107020		1 off	Content: ball for mechanical interlock incl. contactor connector.
IP2X shrouding kit					
	DILMP63 DILMP80	**DILM65-XIP2X** 106491		8 off	2 shrouds are necessary per phase The shrouding kit consists of 8 shrouds
	DILMP125 DILMP160 DILMP200	**DILM150-XIP2X** 106492		8 off	

AC	DILMP20 (…)	DILMP32-10 (…)	DILMP45-10 (…)	DILMP63 (…)	DILMP80 (…)	DILMP125 (…)	DILMP160 (…)	DILMP200 (…)
	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]
Standard voltages	Price see price list	Price see price list	Price see price list	Price see price list	Price see price list	Price see price list	Price see price list	Price see price list
240V 50Hz	–	109798	109827	109856	109885	–	–	–
110V 50Hz 120V 60Hz	276967	109790	109819	109848	109877	–	–	–
230V 50Hz 240V 60Hz	276970	109797	109826	109855	109884	–	–	–
24V 50/60Hz	276974	109799	109828	109857	109886	–	–	–
230 V 50/60 Hz	276978	109796	109825	109883	109883	–	–	–
AC	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]
Standard voltages	Price see price list	Price see price list	Price see price list	Price see price list	Price see price list	Price see price list	Price see price list	Price see price list
RAC 24[4]	–	–	–	–	–	109904	109914	109924
RAC 120[5]	–	–	–	–	–	109903	109913	109923
RAC 240[6]	–	–	–	–	–	109905	109915	109925
AC	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]
Non-standard voltages[2]	Price see price list	Price see price list	Price see price list	Price see price list	Price see price list	Price see price list	Price see price list	Price see price list
…V 50Hz (12 – 600V)[3]	276982	109787	109816	109845	109874	–	–	–
…V 60Hz (12 – 600V)[3]	276983	109788	109817	109846	109875	–	–	–
DC	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]
Standard voltages	Price see price list	Price see price list	Price see price list	Price see price list	Price see price list	Price see price list	Price see price list	Price see price list
24V DC	276985	–	–	–	–	–	–	–
RDC 24[7]	–	109811	109840	109869	109898	109910	109920	109930
DC	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]	Article no.[1]
Non-standard voltages[2]	Price see price list	Price see price list	Price see price list	Price see price list	Price see price list	Price see price list	Price see price list	Price see price list
…V DC (12 – 250V)[3]	276990	–	–	–	–	–	–	–

Notes

[1] The article number is a combination of part no. and operating voltage
[2] For non-standard voltages, state the actuating voltage selected from the range (…–…V) shown.
[3] Minimum order quantity: 10 off
[4] 24 V 50/60 Hz
[5] 100 – 120 V 50/60 Hz
[6] 190 – 240 V 50/60 Hz
[7] 24 – 27 V DC

Switching conditions for 4 pole, non-motor loads



Operating characteristics

Non inductive and slightly inductive loads

Electrical characteristics:

Switch on: 1 × Rated current
Switch off: 1 × Rated current

Utilization category

100 % AC-1

Typical applications:

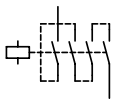
Electric heat

Switching of DC currents

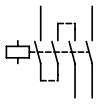
– – – – – when necessary cable to be supplied by customer

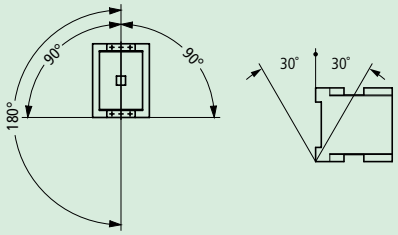
DILMP20 ... DILMP200
> 60 V DC

1 pole



2 pole



				DILMP20	DILMP32 DILMP45	DILMP63 DILMP80	DILMP125 DILMP160 DILMP200
General							
Standards				IEC/EN 60947, VDE 0660, UL, CSA			
Lifespan, mechanical							
AC operated		Operations	× 10^6	10			
DC operated		Operations	× 10^6	10			
Operating frequency, mechanical							
AC operated		Operations/h		5000			3600
DC operated		Operations/h		5000			3600
Maximum operating frequency							
electrical (Contactors without overload relay)		Operations/h		600			
Climatic proofing				Damp heat, constant, to IEC 60068-2-3 Damp heat, cyclical, to IEC 60068-2-30			
Ambient temperature	Open		°C	–25…60			
	Enclosed		°C	–25…40			
	Storage		°C	–40…80			
Mounting position, AC- and DC operated							
Mechanical shock resistance (IEC/EN 60068-2-27)							
Half-sinusoidal shock, 10 ms							
Main contacts							
N/O contact			g	10			
Auxiliary contacts							
N/O contact			g	7			
N/C contact			g	5			
Protection type				IP20	IP00		
with accessories				–		IP20	
Protection against direct contact when actuated from front (IEC 536)				Finger- and back-of-hand proof			
Terminals, screw connection							
Terminal capacity main cable							
Solid			mm^2	1 × (0.75 – 4) 2 × (0.75 – 2.5)	1 × (0.75 – 16) 2 × (0.75 – 10)	1 × (2.5 – 16) 2 × (2.5 – 16)	–
Flexible with ferrule			mm^2	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)	1 × (0.75 – 16) 2 × (0.75 – 10)	1 × (2.5 – 35) 2 × (2.5 – 25)	1 × (10 – 95) 2 × (10 – 70)
Stranded			mm^2	–	1 × 16	1 × (16 – 50) 2 × (16 – 35)	1 × (16 – 120) 2 × (16 – 95)
Solid or stranded			AWG	18 – 14	18 – 6	12 – 2	8 – 250MCM
Flat conductor		Number of segments × width × thickness	mm	–	–	2 × (6 × 9 × 0.8)	2 × (6 × 16 × 0.8)
Terminal capacity control circuit cables							
Solid			mm^2	1 × (0.75 – 4) 2 × (0.75 – 2.5)	1 × (0.75 – 4) 2 × (0.75 – 2.5)	1 × (0.75 – 4) 2 × (0.75 – 4)	1 × (0.75 – 4) 2 × (0.75 – 4)
Flexible with ferrule			mm^2	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)
Solid or stranded			AWG	18 – 14	18 – 14	18 – 14	18 – 14
Main cable connection screw/bolt				M3.5	M5	M6	M10
Tightening torque			Nm	1.2	3	3.3	14
Control circuit cable connection screw/bolt				M3.5	M3.5	M3.5	M3.5
Tightening torque			Nm	1.2	1.2	1.2	1.2
Tool							
Main cable	Pozidriv screwdriver	Size		2	2	2	–
	Hexagon socket-head	SW	mm	–	–	–	5
	Standard screwdriver		mm	0.8 × 5.5 1 × 6	0.8 × 5.5 1 × 6	0.8 × 5.5 1 × 6	–
Control circuit cables	Pozidriv screwdriver		Size	2	2	2	2
	Standard screwdriver		mm	0.8 × 5.5 1 × 6	0.8 × 5.5 1 × 6	0.8 × 5.5 1 × 6	0.8 × 5.5 1 × 6

			DILMP20	DILMP32	DILMP45	DILMP63	DILMP80	DILMP125	DILMP160	DILMP200
Main conducting paths										
Rated impulse withstand voltage	U_{imp}	V AC	8000							
Overvoltage category/pollution degree			III/3							
Rated insulation voltage	U_i	V AC	690							
Rated operational voltage	U_e	V AC	690							
Safe isolation to EN 61140										
between coil and contacts		V AC	400	440						
between the contacts		V AC	400	440						
Making capacity (cos φ to IEC/EN 60947)	Up to 690 V	A	144	238	350	560	700	1120	1330	1800
Breaking capacity										
220/230 V		A	120	180	250	400	500	800	950	1150
380/400 V		A	120	180	250	400	500	800	950	1150
500 V		A	100	180	250	400	500	800	950	1150
660/690 V		A	70	120	144	250	296	650	750	800
Short-circuit rating										
Short-circuit protection maximum fuse										
Type "2" coordination										
400 V	gG/gL 500 V	A	20	35	35	63	80	160	160	250
690 V	gG/gL 690 V	A	20	35	35	50	63	160	160	200
Type "1" coordination										
400 V	gG/gL 500 V	A	35	63	100	125	160	250	250	250
690 V	gG/gL 690 V	A	25	50	50	80	80	200	200	200
AC										
AC-1 duty										
conv. therm. current 3 pole 50 – 60 Hz										
open										
at 40 °C	I_{th}	A	22	32	45	63	80	125	160	200
at 50 °C	I_{th}	A	21	30	41	60	76	116	150	188
at 60 °C	I_{th}	A	20	28	39	54	69	108	138	172
enclosed	I_{th}	A	18	27	36	50	64	100	128	160
Conventional free air thermal current, 1 pole										
open	I_{th}	A	60	84	117	162	207	325	415	516
enclosed	I_{th}	A	54	76	105	146	186	292	373	464
Motor rating										
AC-1 230 V		kW	8	12	16	23	29	45	58	72
AC-1 240 V		kW	9	13	18	25	32	49	63	79
AC-1 380/400 V		kW	14	20	28	39	50	78	100	125
AC-1 415 V		kW	15	22	31	43	55	85	109	137
AC-1 440 V		kW	16	23	33	46	58	90	116	145
AC-1 500 V		kW	18	26	37	52	66	103	132	165
AC-1 690 V		kW	24	35	49	68	87	136	174	217
AC-3 duty										
Rated operational current AC-3 open, 50 – 60 Hz, 3 pole										
220/230 V	I_e	A	12	18	25	40	50	80	95	115
240 V	I_e	A	12	18	25	40	50	80	95	115
380/400 V	I_e	A	12	18	25	40	50	80	95	115
415 V	I_e	A	12	18	25	40	50	80	95	115
440 V	I_e	A	12	18	25	40	50	80	95	115
500 V	I_e	A	10	18	25	40	50	80	95	115
660/690 V	I_e	A	7	12	15	25	32	65	80	93
Motor rating										
220/230 V	P	kW	3.5	5	7.5	12.5	15.5	25	30	37
240V	P	kW	4	5.5	8.5	13.5	17	27.5	33	40
380/400 V	P	kW	5.5	7.5	11	18.5	22	37	45	55
415 V	P	kW	7	10	14.5	24	30	48	57	70
440 V	P	kW	7.5	10.5	15.5	25	32	51	60	75
500 V	P	kW	7	12	17.5	28	36	58	70	85
660/690 V	P	kW	6.5	11	14	23	30	63	75	90

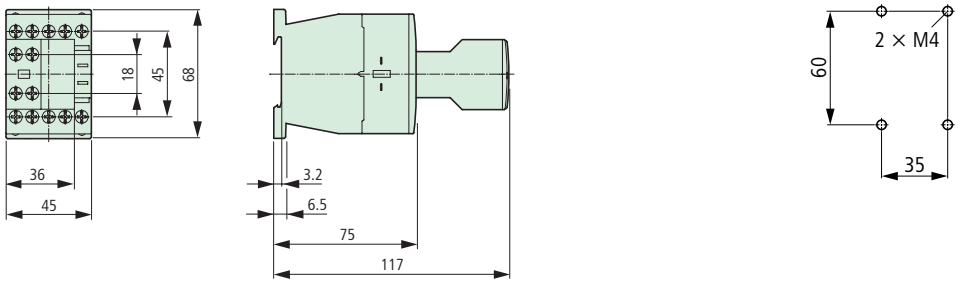
				DILMP20	DILMP32	DILMP45	DILMP63	DILMP80	DILMP125	DILMP160	DILMP200
DC											
Rated operational current, open											
DC-1 operation											
60 V	I_e		A	22	32	45	63	80	125	160	200
110 V	I_e		A	22	32	45	63	80	125	160	200
220 V	I_e		A	6	32	45	63	80	125	160	200
440 V	I_e		A	1.3	3	3	5	5	100	125	150
DC-3 operation											
60 V	I_e		A	20	32	45	63	80	125	160	200
110 V	I_e		A	20	32	45	63	80	125	160	200
220 V	I_e		A	1.5	32	45	63	80	125	160	200
440 V	I_e		A	0.2	6	6	8	8	75	95	115
DC-5 operation											
60 V	I_e		A	20	32	45	63	80	125	160	200
110 V	I_e		A	20	25	32	50	80	125	160	200
220 V	I_e		A	1.5	15	22	38	70	100	125	150
440 V	I_e		A	0.2	4	4	8	8	60	75	90
Current heat loss (3 pole)											
Current heat loss at I_{th}			W	4.7	8.2	12	16	23	29	46	60
Impedance per pole			mΩ	2.5	2	1.5	1	0.7	0.6	0.6	0.5
Magnet systems											
Voltage tolerance											
AC operated, 50 Hz	Pick-up		× U_c	0.8…1.1	0.8…1.1		0.8…1.1		0.8…1.1		
AC operated, 50/60 Hz			× U_c		0.85 – 1.1		0.85 – 1.1		–		
AC operated	Drop-out		× U_c	0.4…0.6	0.4…0.6		0.4…0.6		0.4…0.6		
DC operated[1)]	Pick-up		× U_c	0.8…1.1	0.7…1.2		0.7…1.2		0.7…1.2		
DC operated[1)]	Drop-out		× U_c	0.2…0.6	0.2…0.6		0.2…0.6		0.2…0.6		
Power consumption of the coil in a cold state and 1.0 × U_c											
AC operated, 50/60 Hz	Pick-up		VA	24	50		150		180		
AC operated, 50/60 Hz	Pick-up		W	19	40		95		150		
AC operated, 50/60 Hz	Sealing		VA	4	8		16		3.1		
AC operated, 50/60 Hz	Sealing		W	1.2	2.4		4		2.1		
DC operated[1)]	Pick-up		W	4.5	12		24		149		
DC operated[1)]	Sealing		W	4.5	0.5		0.5		2.1		
Duty factor			% DF	100							
Switching times at 100 % U_c (approximate values)											
Main contacts											
AC operated											
Closing delay			ms	15…21	16…22		12…18		28…33		
Opening delay			ms	9…18	8…14		8…13		35…41		
DC operated[1)]											
Closing delay			ms	31	47		54		35		
Opening delay			ms	12	30		24		30		
Arcing time			ms	10	10		10		15		
Permissible residual current with actuation of A1 – A2 by the electronics (with 0 signal).			mA	≦ 1	≦ 1		≦ 1		≦ 1		

Notes

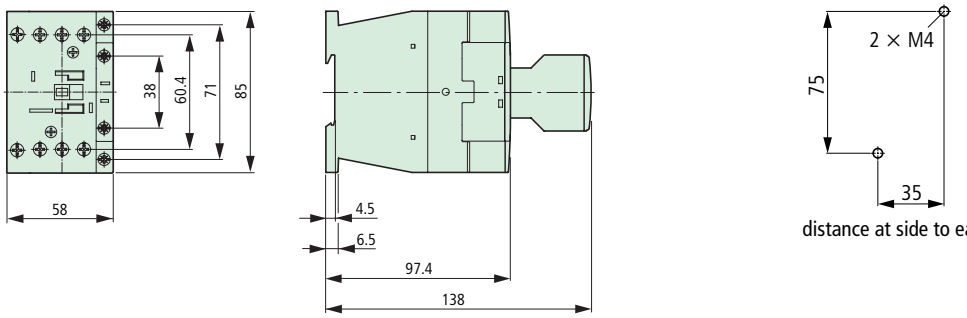
[1)] At least double-pulse bridge rectifier

Contactor with auxiliary contact module

DILMP20



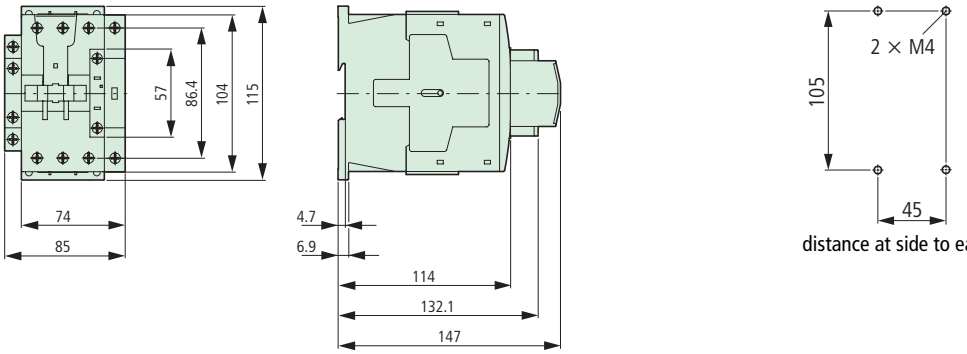
DILMP32
DILMP45



distance at side to earthed parts: 6 mm

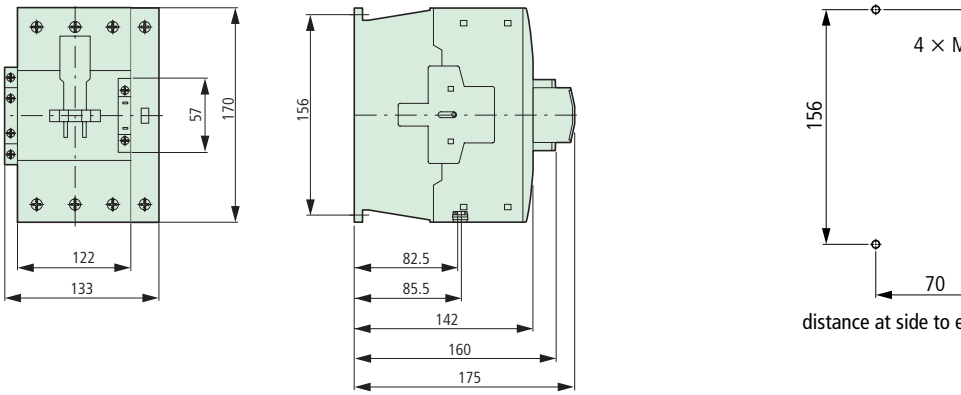
Contactors

DILMP63
DILMP80



distance at side to earthed parts: 6 mm

DILMP125
DILMP160
DILMP200



distance at side to earthed parts: 10 mm

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