

Motor protective circuit breakers PKZ



Motor protective circuit breaker PKE



Motor protective circuit breaker PKZMC



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1.2	xStart C series motor-protective circuit-breakers	
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PKZ and PKE motor-protective circuit-breakers

Machinery and installation downtimes should be kept as short as possible. The PKZ fuseless motor-protective circuit-breakers combine short-circuit and overload protection in one device, allowing fast restart readiness. PKZM01, PKZM0, PKZM4 and PKE have the same accessories. Combines easily with DILM (C) contactors and DS7 soft starters. Connecting PKE to SmartWire-DT® facilitates high data transparency.



PKZM01 (up to 25 A) motor-protective circuit-breaker with pushbuttons

- Motor-protective circuit-breaker in housing for protection types IP40 and IP65.
- Integrated EMERGENCY STOP and EMERGENCY OFF pushbuttons reduce wiring.

PKZM0 (up to 32 A) and PKZM4 (up to 65 A) motor-protective circuit-breakers with rotary handle

- Short-circuit proof up to at least 50 kA for easy engineering.
- Trip-indicating auxiliary contact enables remote diagnosis.
- High safety through application as main switch or repair and maintenance switch.
- ATEX approval for protection of EEx e motors up to 65 A.

PKE (up to 65 A) motor-protective circuit-breakers with electronic wide-range overload protection

- High flexibility through plug-in trip block.
- Wide current setting ranges enable only five trip blocks up to 65 A.
- Precise and extremely long-term stable characteristic curves.
- Individual supply through integrated current converter.
- ATEX approval for protection of EEx e motors up to 65 A.
- Adjustable tripping classes.



Motor-protective circuit-breaker PKZM01, PKZM0, PKZM4, PKE



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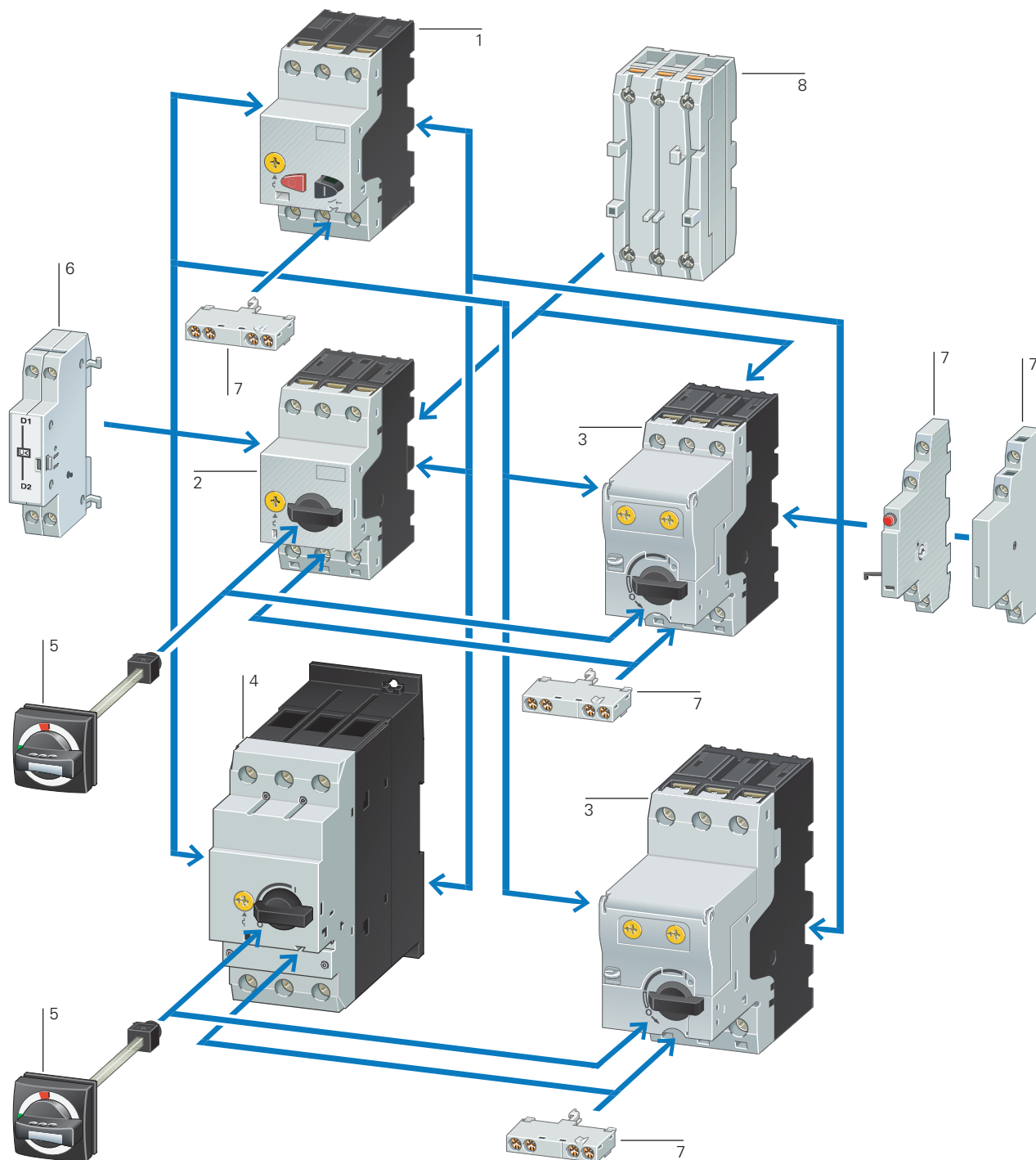
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1.1

Motor-protective circuit-breakers PKZM01, PKZM0, PKZM4, PKE

Motor-protective circuit-breaker

1 System overview



Basic devices

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Add-on functions

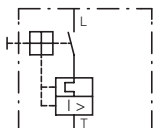
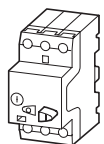
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Ordering

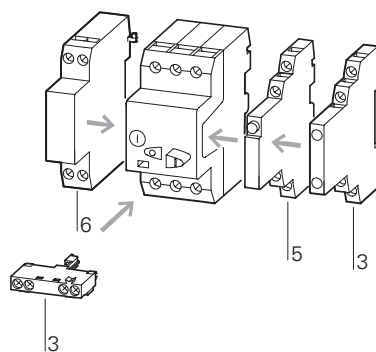
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PKZM01

Max. motor rating AC-3			Rated uninter- rupted current	Setting range		Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America  	
220 V 230 V 240 V	380 V 400 V 415 V	440 V		Overload releases	Short- circuit releases					
P kW	P kW	P kW	I _u A	I _r A 	I _{rm} A 					
Motor-protective circuit-breakers, type "1"; and type "2" coordination										
—	—	—	0.16	0.1...0.16	2.2	PKZM01-0.16 278475	1 off  	Product Standards	UL 508; CSA-C22.2 No.14; IEC60947- 4-1; CE marking E36332	
—	0.06	0.06	0.25	0.16...0.25	3.5	PKZM01-0.25 278476	1 off  			
0.06	0.09	0.12	0.4	0.25...0.4	5.6	PKZM01-0.4 278477	1 off  	UL File No. UL CCN CSA File No. CSA Class No. NA Certification	NLRV 12528 3211-05 UL Listed, CSA certified	
0.09	0.12	0.18	0.63	0.4...0.63	8.8	PKZM01-0.63 278478	1 off  			
0.12	0.25	0.25	1	0.63...1	14	PKZM01-1 278479	1 off  	Suitable for	Branch circuits, or suitable for group installations → Page 34	
0.25	0.55	0.55	1.6	1...1.6	22	PKZM01-1.6 278480	1 off  			
0.37	0.75	1.1	2.5	1.6...2.5	35	PKZM01-2.5 278481	1 off  	See also		
0.75	1.5	1.5	4	2.5...4	56	PKZM01-4 278482	1 off  			
1.1	2.2	3	6.3	4...6.3	88	PKZM01-6.3 278483	1 off  			
2.2	4	4	10	6.3...10	140	PKZM01-10 278484	1 off  			
3	5.5	5.5	12	8...12	168	PKZM01-12 278485	1 off  			
4	7.5	9	16	10...16	224	PKZM01-16 283390	1 off  			
5.5	9	11	20	16...20	280	PKZM01-20 283383	1 off  	Product Standards	UL 508; CSA-C22.2 No.14; IEC/EN 60947- 4-1; CE marking E36332	
5.5	12.5	12.5	25	20...25	350	PKZM01-25 288893	1 off  			
								UL File No. UL CCN CSA File No. CSA Class No. NA Certification	NLRV 12528 3211-05 UL Listed, CSA certified	

Notes

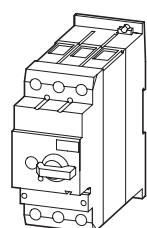
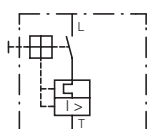
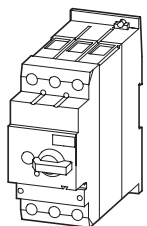
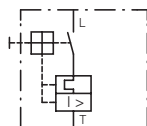
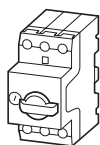


Accessories

- 3 Standard auxiliary contacts → 10
- 5 Trip-indicating auxiliary contact → 12
- 6 Shunt release, undervoltage release → 29
- Phase failure sensitivity to IEC/EN 60947-4-1, VDE 0660 Part 102.
- Can be snap-fitted to IEC/EN 60715 top-hat rail with 7.5 or 15 mm height

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Circuit
diagrams

PKZM0, PKZM4

Max. motor rating AC-3					Rated uninter- rupted current	Setting range			Short-circuit releases	I _{rn} A 	Part no. Article no.	Price See price list	Part no. Article no.	Price See price list
220 V	380 V	440 V	500 V	660 V										
230 V	400 V			690 V										
240 V	415 V													
P	P	P	P	P	I _n									
kW	kW	kW	kW	kW	A									
Motor-protective circuit-breakers, type “1” and type “2” coordination														
–	–	–	–	0.06	0.16	0.1...0.16	2.2				PKZM0-0.16 072730		PKZM0-0,16-SC 229828	
–	0.06	0.06	0.06	0.12	0.25	0.16...0.25	3.5				PKZM0-0.25 072731		PKZM0-0,25-SC 229829	
0.06	0.09	0.12	0.12	0.18	0.4	0.25...0.4	5.6				PKZM0-0.4 072732		PKZM0-0,4-SC 229830	
0.09	0.12	0.18	0.25	0.25	0.63	0.4...0.63	8.8				PKZM0-0.63 072733		PKZM0-0,63-SC 229831	
0.12	0.25	0.25	0.37	0.55	1	0.63...1	14				PKZM0-1 072734		PKZM0-1-SC 229832	
0.25	0.55	0.55	0.75	1.1	1.6	1...1.6	22				PKZM0-1.6 072735		PKZM0-1,6-SC 229833	
0.37	0.75	1.1	1.1	1.5	2.5	1.6...2.5	35				PKZM0-2.5 072736		PKZM0-2,5-SC 229834	
0.75	1.5	1.5	2.2	3	4	2.5...4	56				PKZM0-4 072737		PKZM0-4-SC 229835	
1.1	2.2	3	3	4	6.3	4...6.3	88				PKZM0-6.3 072738		PKZM0-6,3-SC 229836	
2.2	4	4	4	7.5	10	6.3...10	140				PKZM0-10 072739		PKZM0-10-SC 229837	
3	5.5	5.5	5.5	11	12	8...12	168				PKZM0-12 278486		PKZM0-12-SC 278487	
4	7.5	9	9	12.5	16	10...16	224				PKZM0-16 046938		PKZM0-16-SC 229838	
5.5	9	11	12.5	15	20	16...20	280				PKZM0-20 046988			
5.5	12.5	12.5	15	22	25	20...25	350				PKZM0-25 046989			
7.5	15	15	22	30	32	25...32	448				PKZM0-32 278489			
Motor-protective circuit-breakers, type “1” and type “2” coordination														
4	7.5	9	9	12.5	16	10...16	224				PKZM4-16 222350			
5.5	12.5	12.5	15	22	25	16...25	350				PKZM4-25 222352			
7.5	15	17.5	22	22	32	25...32	448				PKZM4-32 222353			
11	20	22	24	30	40	32...40	560				PKZM4-40 222354			
14	25	30	30	45	50	40...50	700				PKZM4-50 222355			
17	30	37	37	55	58	50...58	812				PKZM4-58 222394			
18.5	34	37	45	55	65	55...65	882				PKZM4-63 222413			
Circuit-breakers For line and cable protection														
–	–	–	–	–	16	10...16	224				PKZM4-16-CB 132591			
–	–	–	–	–	25	16...25	350				PKZM4-25-CB 132592			
–	–	–	–	–	32	25...32	448				PKZM4-32-CB 132593			