

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 contactors and DS7 soft starters. Connecting PKE to SmartWire-Darwin facilitates high data transparency.

ATEX

PKZM01 (up to 16) 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

Darwin Technology
The easy way to connect

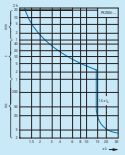
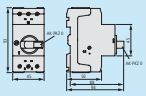
PKE (up to 65 A) motor-protective circuit-breakers with electronic wide-range overload protection
High flexibility through plug-in trip block +++ Wide current setting ranges enable only five trip blocks up to 65 A +++ Precise and extremely long-term stable characteristic curves +++
Individual supply through integrated current converter +++ ATEX approval for protection of EEx e motors up to 65 A +++ Adjustable tripping classes

IEC UL CSA

DC string circuit-breakers PKZ-SOL and DC switch-disconnectors P-SOL (up to 63 A) for installations
High string circuit-breaker flexibility due to wide current setting range +++ Enclosed switch-disconnector for external mounting (IP65) +++ Remote shutdown through optional secondary voltage and shunt trip +++ Voltage up to 1000 V DC +++ TÜV certified





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

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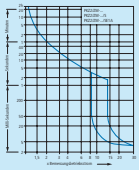
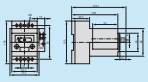

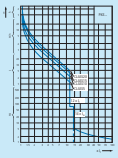
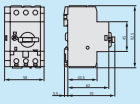

PKZ2 motor-protective circuit-breaker

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DC string circuit-breaker PKZ-SOL, DC switch-disconnectors P-SOL, SOL

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Technical data

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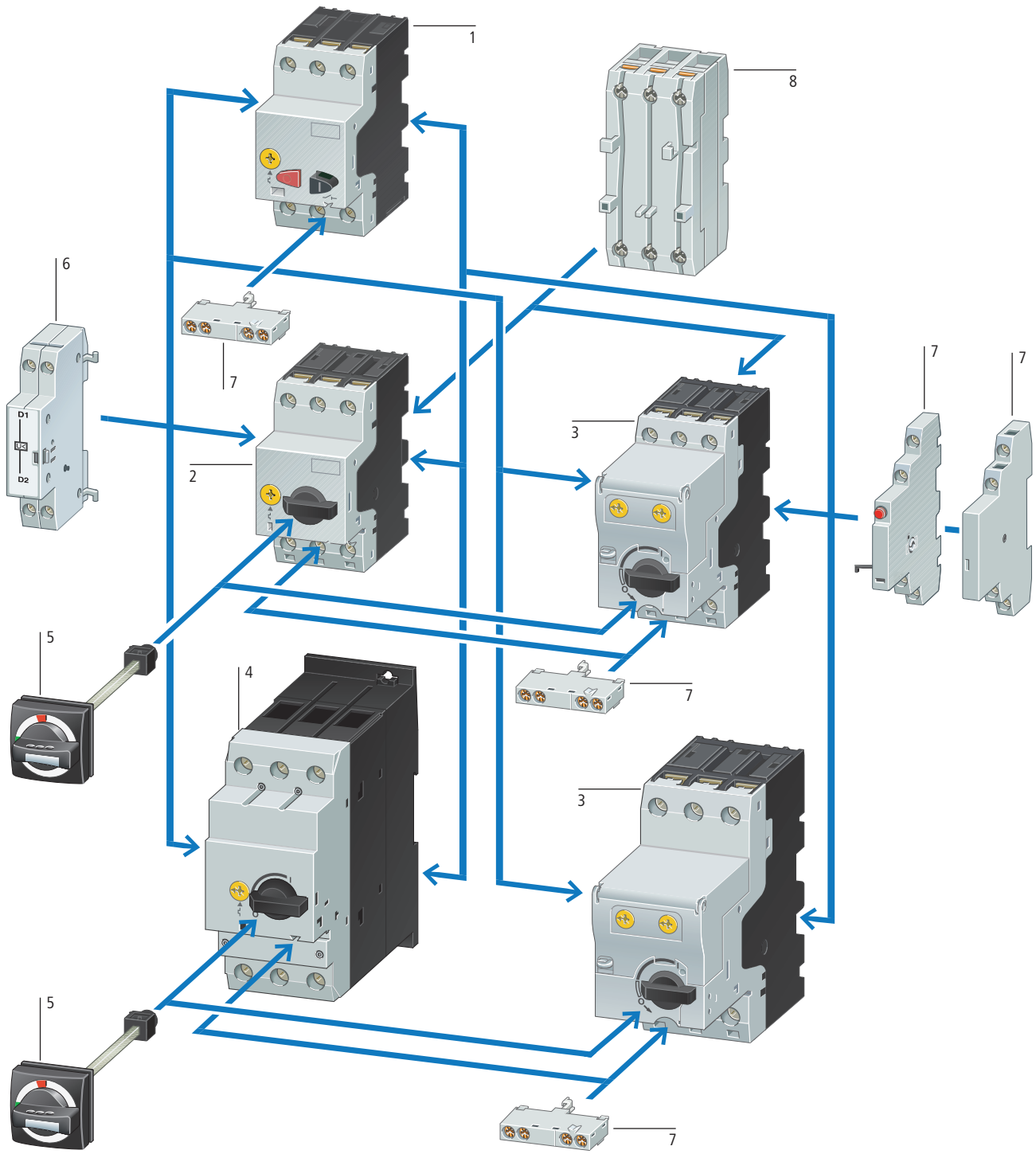
Dimensions

DC switches P-SOL, PKZ-SOL, SOL 7/91

System overview



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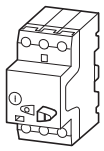
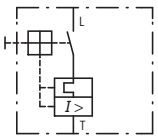
HLP07003EN **PKZM01**

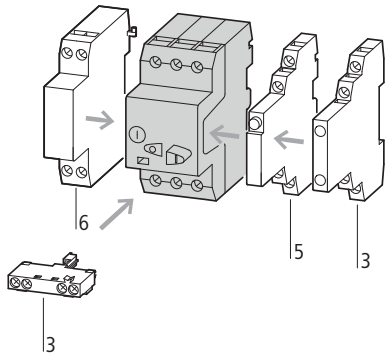
Ordering

Max. motor rating AC-3 220 V 230 V 240 V P kW	Max. motor rating AC-3 380 V 400 V 415 V P kW	Max. motor rating AC-3 440 V P kW	Rated uninterrupted current I_u A	Setting range Overload releases I_r A	Setting range Short-circuit releases I_{rm} A	Screw terminals Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America
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 UL File No.: E36332 UL CCN: NLRV CSA File No.: 12528 CSA Class No.: 3211-05 NA Certification: UL Listed, CSA certified Suitable for: Branch circuit, or suitable for group installations See also: → Page 7/34
–	0.06	0.06	0.25	0.16…0.25	3.5	**PKZM01-0.25** 278476			
0.06	0.09	0.12	0.4	0.25…0.4	5.6	**PKZM01-0.4** 278477			
0.09	0.12	0.18	0.63	0.4…0.63	8.8	**PKZM01-0.63** 278478			
0.12	0.25	0.25	1	0.63…1	14	**PKZM01-1** 278479			
0.25	0.55	0.55	1.6	1…1.6	22	**PKZM01-1.6** 278480			
0.37	0.75	1.1	2.5	1.6…2.5	35	**PKZM01-2.5** 278481			
0.75	1.5	1.5	4	2.5…4	56	**PKZM01-4** 278482			
1.1	2.2	3	6.3	4…6.3	88	**PKZM01-6.3** 278483			
2.2	4	4	10	6.3…10	140	**PKZM01-10** 278484			
3	5.5	5.5	12	8…12	168	**PKZM01-12** 278485			
4	7.5	9	16	10…16	224	**PKZM01-16** 283390			
5.5	9	11	20	16…20	280	**PKZM01-20** 283383			Product Standards: UL 508; CSA-C22.2 No. 14; IEC60947-4-1; CE marking UL File No.: E36332 UL CCN: NLRV CSA File No.: 12528 CSA Class No.: 3211-05 NA Certification: UL Listed, CSA certified
5.5	12.5	12.5	25	20…25	350	**PKZM01-25** 288893			





Notes



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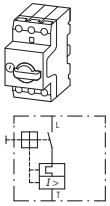
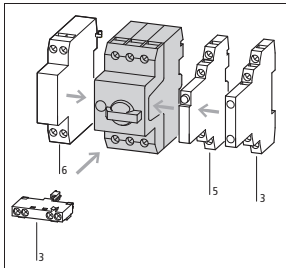
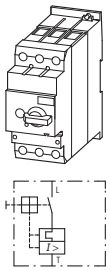
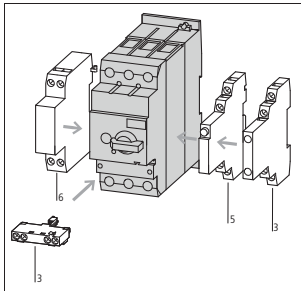
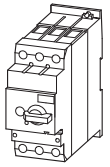
5 Trip-indicating auxiliary contact → 7/12

6 Shunt release, undervoltage release → 7/29

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

Circuit diagrams	Max. motor rating AC-3 220 V 230 V 240 V P kW	380 V 400 V 415 V P kW	440 V P kW	500 V P kW	660 V 690 V P kW	Rated uninterrupted current I_u A	Setting range Overload releases I_r A	Short-circuit releases I_{rm} A	Screw terminals Part no. Article no.	Price See price list	Screw terminals on feed side, spring-loaded terminals on output side Part no. Article no.	Price See price list	Spring-loaded terminals Part no. Article no.	Price See price list	Std. pack	Notes
Motor-protective circuit-breakers, type "1" and type "2" coordination[1]																
	–	–	–	–	0.06	0.16	0.1…0.16	2.2	**PKZM0-0.16** 072730		**PKZM0-0,16-SC** 229828		**PKZM0-0,16-C** 229669		1 off	
	–	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		**PKZM0-0,25-C** 229670			
	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		**PKZM0-0,4-C** 229671			
	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		**PKZM0-0,63-C** 229672			
	0.12	0.25	0.25	0.37	0.55	1	0.63…1	14	**PKZM0-1** 072734		**PKZM0-1-SC** 229832		**PKZM0-1-C** 229673			
	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		**PKZM0-1,6-C** 229674			
	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		**PKZM0-2.5-C** 229675			
	0.75	1.5	1.5	2.2	3	4	2.5…4	56	**PKZM0-4** 072737		**PKZM0-4-SC** 229835		**PKZM0-4-C** 229676			
	1.1	2.2	3	3	4	6.3	4…6.3	88	**PKZM0-6.3** 072738		**PKZM0-6,3-SC** 229836		**PKZM0-6,3-C** 229677			
	2.2	4	4	4	7.5	10	6.3…10	140	**PKZM0-10** 072739		**PKZM0-10-SC** 229837		**PKZM0-10-C** 229678			
	3	5.5	5.5	5.5	11	12	8…12	168	**PKZM0-12** 278486		**PKZM0-12-SC** 278487		**PKZM0-12-C** 278488			
	4	7.5	9	9	12.5	16	10…16	224	**PKZM0-16** 046938		**PKZM0-16-SC** 229838		**PKZM0-16-C** 229679			
	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[1]																
	4	7.5	9	9	12.5	16	10…16	224	**PKZM4-16** 222350						1 off	
	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[2] For line and cable protection																
	–	–	–	–	–	16	10…16	224	**PKZM4-16-CB** 132591						1 off	Not usable as a main switch Phase failure sensitivity to IEC/EN 60947-4-1, VDE 0660 Part 102. Switching capacity of SCCR 65 kA (480 Y/277 V) 22 kA (600 Y/347 V)
	–	–	–	–	–	25	16…25	350	**PKZM4-25-CB** 132592							
	–	–	–	–	–	32	25…32	448	**PKZM4-32-CB** 132593							

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Phase failure sensitivity to IEC/EN 60947-4-1, VDE 0660 Part 102.
Can be snap-fit to IEC/EN 60715 top-hat rail with 7.5 or 15 mm height
Ex PTB 02 ATEX 3151, see manual → 7/21

[1]
Product Standards UL 508; CSA-C22.2 No. 14; IEC60947-4-1; CE marking
UL File No. E36332
UL CCN NLRV
CSA File No. 12528
CSA Class No. 3211-05
NA Certification UL Listed, CSA certified
Suitable for Branch circuit: Manual type E if used with terminal, or suitable for group installations
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Accessories **Page**
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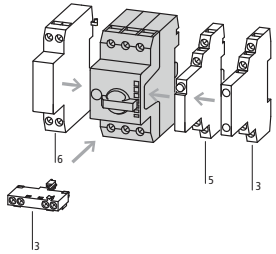
6 Shunt release, undervoltage release → 7/29
Only motor-protective circuit-breaker:
Phase failure sensitivity to IEC/EN 60947-4-1, VDE 0660 Part 102
Can be snap-fitted to IEC/EN 60715 top-hat rail with 7.5 or 15 mm height
Ex PTB 02 ATEX 3153, see manual → 7/21

[2]
Product Standards UL 489; CSA-C22.2 no. 5-09; IEC60947-4-1; CE marking
NA Certification Request filed for UL and CSA
Specially designed for NA Yes
Suitable for Feeder and branch circuit as BCPD

Max. motor rating AC-3					Rated uninterrupted current	Setting range Overload releases	Setting range Short-circuit releases	Screw terminals Part no. Article no.	Price See price list	Std. pack
220 V 230 V 240 V	380 V 400 V 415 V	440 V	500 V	660 V 690 V	I_u	I_r	I_{rm}			
P	P	P	P	P	A	A	A			
kW	kW	kW	kW	kW						
Motor-protective circuit-breakers for starter combinations										
Short-circuit protective breakers without overload function										
–	–	–	–	0.06	0.16		2.2	**PKM0-0,16** 072720		1 off
–	0.06	0.06	0.06	0.12	0.25		3.5	**PKM0-0,25** 072721		
0.06	0.09	0.12	0.12	0.18	0.4		5.6	**PKM0-0,4** 072722		
0.09	0.12	0.18	0.25	0.25	0.63		8.8	**PKM0-0,63** 072723		
0.12	0.25	0.25	0.38	0.55	1		14	**PKM0-1** 072724		
0.25	0.37	0.55	0.75	1.1	1.6		22	**PKM0-1,6** 072725		
0.37	0.75	1.1	1.1	1.5	2.5		35	**PKM0-2.5** 072726		
0.75	1.5	1.5	2.2	3	4		56	**PKM0-4** 072727		
1.1	2.2	3	3	4	6.3		88	**PKM0-6,3** 072728		
2.2	4	4	4	7.5	10		140	**PKM0-10** 072729		
3	5.5	5.5	5.5	11	12		168	**PKM0-12** 278490		
4	7.5	9	9	12.5	16		224	**PKM0-16** 044502		
5.5	9	11	12.5	15	20		280	**PKM0-20** 203594		
5.5	12.5	12.5	15	22	25		350	**PKM0-25** 044503		
7.5	15	15	22	30	32		448	**PKM0-32** 278491		
Transformer-protective circuit-breakers										
–	–	–	–	–	0.16	0.1…0.16	2.4	**PKZM0-0,16-T** 088907		1 off
–	–	–	–	–	0.25	0.16…0.25	4.25	**PKZM0-0,25-T** 088908		
–	–	–	–	–	0.4	0.25…0.4	6.8	**PKZM0-0,4-T** 088909		
–	–	–	–	–	0.63	0.4…0.63	12	**PKZM0-0,63-T** 088910		
–	–	–	–	–	1	0.63…1	20	**PKZM0-1-T** 088911		
–	–	–	–	–	1.6	1…1.6	32	**PKZM0-1,6-T** 088912		
–	–	–	–	–	2.5	1.6…2.5	50	**PKZM0-2.5-T** 088913		
–	–	–	–	–	4	2.5…4	84	**PKZM0-4-T** 088914		
–	–	–	–	–	6.3	4…6.3	141	**PKZM0-6,3-T** 088915		
–	–	–	–	–	10	6.3…10	224	**PKZM0-10-T** 088916		
–	–	–	–	–	12	8…12	224	**PKZM0-12-T** 278492		
–	–	–	–	–	16	10…16	280	**PKZM0-16-T** 088917		
–	–	–	–	–	20	16…20	350	**PKZM0-20-T** 088918		
–	–	–	–	–	25	20…25	437	**PKZM0-25-T** 278493		

Notes



When using the PKM0 as short-circuit protection for motors with heavy starting duty, a device must be selected whose rated operational current I_e is higher by the following factors:
CLASS 5 = 1.0
CLASS 10 = 1.0
CLASS 15 = 1.22
CLASS 20 = 1.41
CLASS 25 = 1.58
CLASS 30 = 1.73
CLASS 35 = 1.89
CLASS 40 = 2.0

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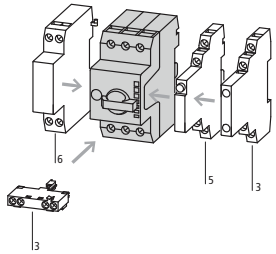
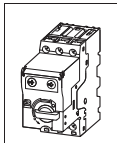
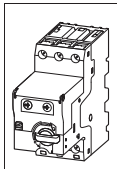
5 Trip-indicating auxiliary contact	→ 7/12
6 Shunt release, undervoltage release	→ 7/29
Additional accessories	→ 2/46

Can be snap-fitted to IEC/EN 60715 top-hat rail with 7.5 or 15 mm height
Assignment of the short-circuit protective breakers and contactors in "Fuseless motor-starter combinations" section.
An appropriate overload relay must be fitted to protect motors against overload.



Accessories	Page
3 Standard auxiliary contacts	→ 7/10
5 Trip-indicating auxiliary contact	→ 7/12
6 Shunt release, undervoltage release	→ 7/29

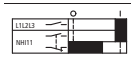
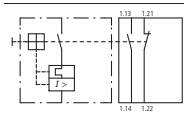
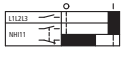
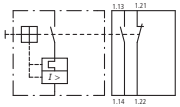
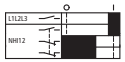
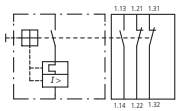
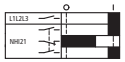
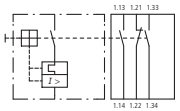
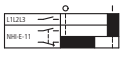
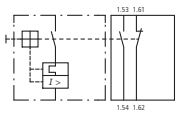
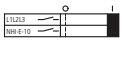
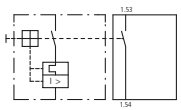
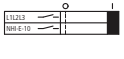
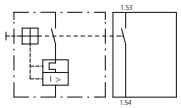
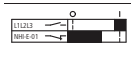
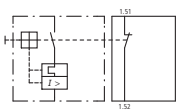
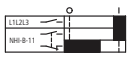
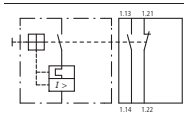
For the protection of transformers with a high inrush current
Can be snap-fitted to IEC/EN 60715 top-hat rail with 7.5 or 15 mm height
Phase failure sensitivity to IEC/EN 60947-4-1, VDE 0660 Part 102.

Motor rating		Motor full-load current AC-3 220 V 230 V 240 V	380 V 400 V 415 V	440 V	500 V	660 V 690 V	Setting range Overload releases	**Basic device** Part no. Article no.	See price list	Std. pack	usable for	**Trip module Standard** Part no. Article no.	See price list	Std. pack	usable for	**Trip module Expanded**[1] Part no. Article no.	See price list	Std. pack	**Motor-protective circuit-breakers Standard Complete device** Part no. Article no.	See price list	Std. pack
P		I	I	I	I	I															
kW		A	A	A	A	A															
Motor-protective circuit-breakers, type "1" and type "2" coordination																					
0.06		0.37	–	–	–	–	0.3...1.2 A	**PKE12** 121721		1off	**PKE12**	**PKE-XTU-1,2** 121723 Start of delivery 07/2010		1off	**PKE12**	**PKE-XTUA-1,2** 121727 Start of delivery 07/2010		1off	**PKE12/XTU-1,2** 121731 Start of delivery 07/2010		1off
0.09		0.54	0.31	–	–	–															
0.12		0.72	0.41	0.37	0.33	–															
0.18		1.04	0.6	0.54	0.48	0.35															
0.25		–	0.8	0.76	0.7	0.5															
0.37		–	1.1	1.02	0.9	0.7															
0.55		–	–	–	–	0.9															
0.75		–	–	–	–	1.1															
0.18		1.04	–	–	–	–	1...4 A	**PKE12** 121721		1off	**PKE12**	**PKE-XTU-4** 121724		1off	**PKE12**	**PKE-XTUA-4** 121728 Start of delivery 05/2010		1off	**PKE12/XTU-4** 121732		1off
0.25		1.4	–	–	–	–															
0.37		2	1.1	1.02	–	–															
0.55		2.7	1.5	1.39	1.2	–															
0.75		3.2	1.9	1.68	1.5	1.1															
1.1		–	2.6	2.41	2.1	1.5															
1.5		–	3.6	3.28	2.9	2.1															
2.2		–	–	–	4	2.9															
3		–	–	–	–	3.8															
0.75		3.2	–	–	–	–	3...12 A	**PKE12** 121721		1off	**PKE12** **PKE32**	**PKE-XTU-12** 121725		1off	**PKE12** **PKE32**	**PKE-XTUA-12** 121729 Start of delivery 05/2010		1off	**PKE12/XTU-12** 121733		1off
1.1		4.6	–	–	–	–															
1.5		6.3	3.6	3.3	–	–															
2.2		8.7	5	4.6	4	–															
3		11.5	6.6	6	5.3	3.8															
4		–	8.5	7.7	6.8	4.9															
5.5		–	11.3	10.2	9	6.5															
7.5		–	–	–	–	8.8															
2.2		8.7	–	–	–	–	8...32 A	**PKE32** 121722		1off	**PKE32**	**PKE-XTU-32** 121726		1off	**PKE32**	**PKE-XTUA-32** 121730 Start of delivery 05/2010		1off	**PKE32/XTU-32** 121734		1off
3		11.5	–	–	–	–															
4		14.8	8.5	–	–	–															
5.5		19.6	11.3	10.2	9	–															
7.5		26.4	15.2	13.8	12.1	8.8															
11		–	21.7	19.8	17.4	12.6															
15		–	29.3	26.6	23.4	17															
18.5		–	–	–	28.9	20.9															
22		–	–	–	–	23.8															
30		–	–	–	–	32															
5.5		19.6	–	–	–	–	16...65 A	**PKE65** 138258		1off	**PKE65**	**PKE-XTU-65** 138259 Start of delivery 10/2010		1off	**PKE65**	**PKE-XTUA-65** 138260 Start of delivery 10/2010		1off	**PKE65/XTU-65** 138516 Start of delivery 10/2010		1off
7.5		26.4	–	–	–	–															
11		38	21.7	19.7	17.4	–															
15		51	29.3	26.6	23.4	17															
18.5		63	36	32.9	28.9	20.9															
22		–	41	37.4	33	23.8															
30		–	55	50.3	44	32															
37		–	–	61.4	54	39															
45		–	–	–	65	47															
55		–	–	–	–	58															
2.2		8.7	–	–	–	–	8...32 A	**PKE65** 138258		1off	**PKE65**	**PKE-XTUW-32** 138261 Start of delivery 10/2010		1off	**PKE65**	**PKE-XTUWA-32** 138262 Start of delivery 10/2010		1off	**PKE65/XTUW-32** 138517 Start of delivery 10/2010		1 off
3		11.5	–	–	–	–															
4		14.8	8.5	–	–	–															
5.5		19.6	11.3	10.2	9	–															
7.5		26.4	15.2	13.8	12.1	8.8															
11		–	21.7	19.8	17.4	12.6															
15		–	29.3	26.6	23.4	17															
18.5		–	–	–	28.9	20.9															
22		–	–	–	–	23.8															
30		–	–	–	–	32															

Notes Select switchgear and cables according to Class as shown in the table on page 6/22.
[1] For communications, module PKE-SWD-32 for contactors is required in addition,, → Page 1/14.

Information relevant for export to North America

Product Standards UL 508; CSA-C22.2 No. 14; IEC60947-4-1; CE marking
NA Certification Request filed for UL and CSA

	Contact configuration N/O = normally open contact	Contact configuration NC = normally closed contact	Contact sequence	Circuit diagrams	Connection method	For use with	**Part no.** Article no.	**Price** See price list	Std. pack
Standard auxiliary contacts									
For motor-protective circuit-breakers									
	1 N/O	1 NC			Screw terminals	PKZM01 PKZM0 PKZM4 PKZM0-T PKM0 PKE[1]	**NHI11-PKZ0** 072896		5 off
	1 N/O	1 NC			Spring-loaded terminals		**NHI11-PKZ0-C** 229680		
	1 N/O	2 NC			Screw terminals		**NHI12-PKZ0** 072895		
	2 N/O	1 NC			Screw terminals		**NHI21-PKZ0** 072894		
	1 N/O	1 NC			Screw terminals		**NHI-E-11-PKZ0** 082882		
	1 N/O	–			Screw terminals		**NHI-E-10-PKZ0** 082884		
	1 N/O	–			Spring-loaded terminals		**NHI-E-10-PKZ0-C** 229681		
	–	1 NC			Spring-loaded terminals		**NHI-E-01-PKZ0-C** 229682		5 off
	1 N/O	1 NC			Screw terminals		**NHI-B-11-PKZ0** 208277		5 off

Notes [1] Only standard auxiliary contacts manufactured on or after CW 36/2009 are for use with PKE.

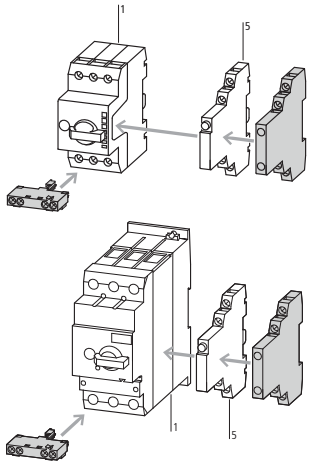
Notes

Can be fitted to the right side of: motor-protective circuit-breakers, transformer protective circuit breakers and motor-protective circuit-breakers for starter combinations

Can be combined with:
Trip-indicating auxiliary contact AGM, NHI-E-…

Can be fitted to motor-protective circuit-breakers, transformer-protective circuit-breakers and motor-protective circuit-breakers for starter combinations from serial number 01.
45 mm (PKZM0 and PKZM01) or 55 mm (PKZM4) widths of the motor-protective circuit-breakers remain unchanged.
NHI-E...-PKZ0-C not for use with MSC...-type motor starter combinations.

Notes

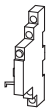
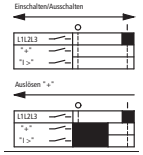
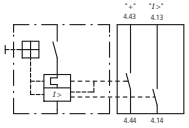
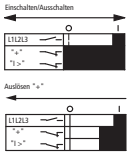
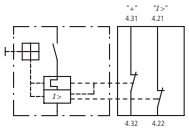
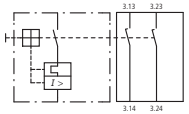
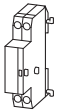
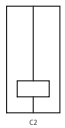
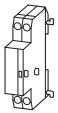
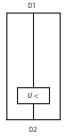
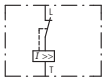


Accessories

1 Motor-protective circuit-breakers	→ 7/4
5 Trip-indicating auxiliary contact	→ 7/12
Additional accessories	→ 7/20

Information relevant for export to North America

Product Standards	UL 508; CSA-C22.2 No. 14; IEC60947-4-1; CE marking
UL File No.	E36332
UL CCN	NLRV
CSA File No.	12528
CSA Class No.	3211-05
NA Certification	UL Listed, CSA certified

	Contact configuration N/O = normally open contact	 NC = normally closed contact	Contact sequence	Circuit diagrams	For use with	**Part no.** Article no.	**Price** See price list	Std. pack
Trip indicators								
For motor-protective circuit-breakers								
	2 x 1 N/O	–			PKZM0 PKZM4 PKZM0-T PKM0 PKZM01 PKE[1]	**AGM2-10-PKZ0** 072898		2 off
	–	2 x 1 NC			PKZM0 PKZM4 PKZM0-T PKM0 PKZM01 PKE[1]	**AGM2-01-PKZ0** 072899		2 off
Early-make auxiliary contacts								
For motor-protective circuit-breakers								
	2 N/O	–	–		PKZM0 PKZM0-T PKM0 PKZM4	**VHI20-PKZ0** 203595		2 off
	2 N/O	–	–		PKZM01	**VHI20-PKZ01** 278495		5 off
Shunt release (for power circuit-breakers)								
	–	–	–		PKZM0 PKZM4 PKZM0-T PKM0 PKZM01 PKE[2]	**A-PKZ0(230V50HZ)** 073187		2 off
	–	–	–		PKZM0 PKZM4 PKZM0-T PKM0 PKZM01 PKE[2]	**A-PKZ0(24VDC)** 073200		2 off
Undervoltage release								
	–	–	–		PKZM0 PKZM4 PKZM0-T PKM0 PKZM01 PKE[2]	**U-PKZ0(230V50HZ)** 073135		2 off
Current limiters								
For increasing switching capacity of motor-protective circuit-breakers without auto-protection								
–	–	–	–		PKZM0 PKZM4 PKE	**CL-PKZ0** 082881		1 off

Notes

[1] Only AGM2-...-PKZ0 manufactured on or after 06/2009 can be fitted.
[2] Only A(U)-PKZ0... with serial number 02 or higher can be fitted.

Notes

Can be fitted to the right side of motor-protective circuit-breakers

Can be combined with:
Standard auxiliary contacts
NHI11-PKZ0
NHI12-PKZ0
NHI21-PKZ0
NHI-E-...

Separate indication of:
a) General trip indication (overload)
b) Short-circuit trip

Local short-circuit indication by red indicator, manually resettable.

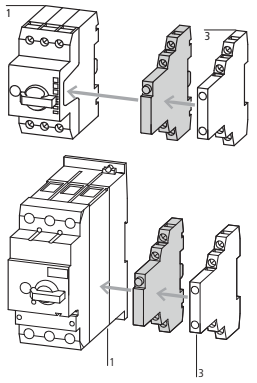
Can be fitted to front of motor-protective circuit-breaker, 45 mm width of the motor-protective circuit-breaker remains unchanged.
For early energization of undervoltage release, e.g. in emergency switching off circuits to EN 60204.
VHI20-PKZ0 cannot be used in combination with PKZ0-X(R).

Can be fitted to the left side of motor-protective circuit-breakers.
Cannot be combined with:
undervoltage release U-PKZ0
DC: Intermittent operation 5 s

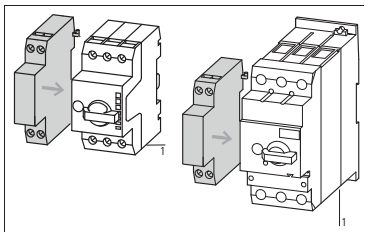
Can be fitted to the left side of motor-protective circuit-breakers.
Cannot be combined with:
A-PKZ0 shunt release
When combined with circuit-breaker, can be used as emergency switching off device to IEC/EN 60204.

Max. rated operating voltage U_e = 690 V, rated uninterrupted current I_u = 63 A
Can be used for individual and group protection.
For group protection and in combination with PKZM4, order additional BK25/3 incoming terminal if required.
Mounting next to or behind the motor-protective circuit-breaker.
PKZM4: 16 - 63 A: 100 kA/400 V
PKZM4: 16 - 63 A: 10 kA/690 V

Notes



Accessories	**Page**
1 Motor-protective circuit-breakers	→ 7/4
3 Standard auxiliary contacts	→ 7/10

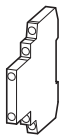
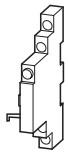
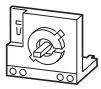
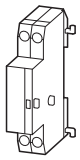
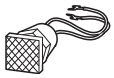
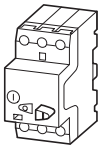
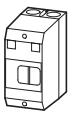
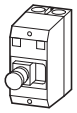
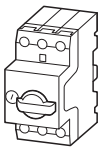
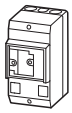
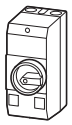
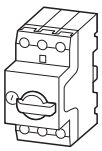


Accessories	**Page**
1 Motor-protective circuit-breakers	→ 7/4
Further actuating voltages	→ 7/29

Information relevant for export to North America

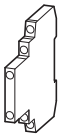
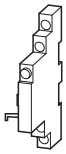
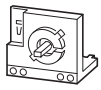
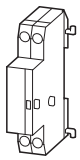
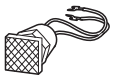
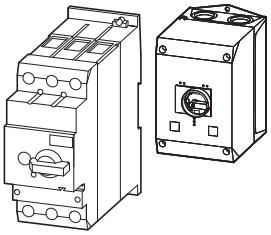
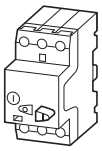
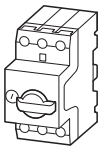
Product Standards	UL 508; CSA-C22.2 No. 14; IEC60947-4-1; CE marking
UL File No.	E36332
UL CCN	NLRV
CSA File No.	12528
CSA Class No.	3211-05
NA Certification	UL Listed, CSA certified

Engineering

		Enclosure			Accessories						
											
Part no.		**Part no.**	Degree of protection	Handle color	**NHI..-PKZ0**	**AGM2-..-PKZ0**	**NHI-E..-PKZ0**	**VHI..-PKZ0**	**VHI..-PKZ01**	**U-PKZ0 or A-PKZ0**	**L-PKZ0**
Surface mounting enclosure											
Motor-protective circuit-breaker PKZM01											
		**CI-PKZ01**	IP40	–	–	–	●	–	–	●	●
					–	–	–	–	●	●	●
					●	–	●	–	–	–	●
					●	–	–	–	●	–	●
		**CI-PKZ01-G**	IP65	–	–	–	●	–	–	●	●
					–	–	–	–	●	●	●
					●	–	●	–	–	–	●
					●	–	–	–	●	–	●
		**CI-PKZ01-PVT** **CI-PKZ01-PVS**	IP65	Red-yellow	–	–	●	–	–	●	●
					–	–	–	–	●	●	●
		**CI-PKZ01-SVB**	IP65	–	–	–	●	–	–	●	●
		CI-PKZ01-SVB-V	IP65	–	–	–	–	–	●[1]	●	●
Motor-protective circuit-breaker PKZM0											
		**CI-K2-PKZ0**	IP41	–	●	–	●	–	–	●	●
					–	●	●	–	–	●	●
		**CI-K2-PKZ0-G**	IP65	Black	●	–	●	–	–	●	●
					–	●	●	–	–	●	●
		CI-K2-PKZ0-GR	IP65	Red-yellow	●	–	●	–	–	●	●
					–	●	●	–	–	●	●
		**CI-PKZ0-M**	IP40	–	●	–	●	–	–	–	●
					–	–	●	–	–	●	●
		**CI-PKZ0-GM**	IP55	Black	●	–	●	–	–	–	●
					–	–	●	–	–	●	●
		CI-PKZ0-GRM	IP55	Red-yellow	●	–	●	–	–	–	●
					–	–	●	–	–	●	●
Motor-protective circuit-breaker PKZM0 + early-make auxiliary contact VHI-PKZ0											
		**CI-K2-PKZ0-GV**	IP65	Black	●	–	–	●	–	●	●
					–	●	–	●	–	●	●
		CI-K2-PKZ0-GRV	IP65	Red-yellow	●	–	–	●	–	●	●
					–	●	–	●	–	●	●
		**CI-K2-PKZ0-GVM**	IP55	Black	●	–	–	●	–	–	●
					–	–	–	●	–	●	●
		CI-K2-PKZ0-GRVM	IP55	Red-yellow	●	–	–	●	–	–	●
					–	–	–	●	–	●	●

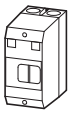
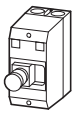
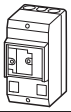
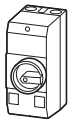
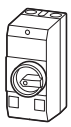
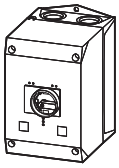
Notes The combination possibilities of circuit-breakers in an enclosure with accessory modules are identified by a ●
[1] Always required

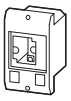
PKZM4, PKZM01, PKZM0

	Enclosure			Accessories						
										
Part no.	**Part no.**	Degree of protection	Handle color	**NHI..-PKZ0**	**AGM2-..-PKZ0**	**NHI-E..-PKZ0**	**VHI..-PKZ0**	**VHI..-PKZ01**	**U-PKZ0 or A-PKZ0**	**L-PKZ0**
Surface mounting enclosure										
Motor-protective circuit-breaker PKZM4										
	**CI-K4-PKZ4-G**	IP65	Black	●	●	●	–	–	●	●
				●	●	–	●	–	●	●
	CI-K4-PKZ4-GR	IP65	Red-yellow	●	●	●	–	–	●	●
				●	●	–	●	–	●	●
Installation enclosure										
Motor-protective circuit-breaker PKZM01										
	**E-PKZ01**	IP40	–	–	–	●	–	–	●	●
				–	–	–	–	●	●	●
				●	–	●	–	–	–	●
				●	–	–	–	●	–	●
	E-PKZ01-G	IP65	–	–	–	●	–	–	●	●
				–	–	–	–	●	●	●
				●	–	●	–	–	–	●
				●	–	–	–	●	–	●
	E-PKZ01-PVT **E-PKZ01-PVS**	IP65	Red-yellow	–	–	●	–	–	●	●
				–	–	–	–	●	●	●
	E-PKZ01-SVB	IP65	–	–	–	●	–	–	●	●
	E-PKZ01-SVB-V	IP65	–	–	–	–	–	●[1]	●	●
Motor-protective circuit-breaker PKZM0										
	**E-PKZ0**	IP40	–	●	–	–	–	–	–	●
				–	–	–	–	–	●	●
	E-PKZ0-G	IP55	Black	●	–	●	–	–	–	●
				–	–	●	–	–	●	●
	E-PKZ1-GR	IP55	Red-yellow	●	–	●	–	–	–	●
				–	–	●	–	–	●	●

Notes The combination possibilities of circuit-breakers in an enclosure with accessory modules are identified by a ●

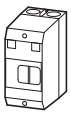
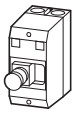
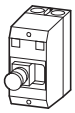
[1] Always required

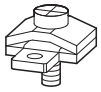
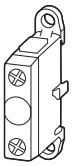
		Degree of protection	For use with	**Part no.** Article no.	**Price** See price list	Std. pack	**Notes**
Insulated enclosures for surface mounting							
For Motor-protective circuit-breaker PKZM01s							
	–	IP40	PKZM01 +NHI-E or VHI-PKZ01 +U or A or NHI +L (2 off)	**CI-PKZ01** 281403		1 off	Integrated terminal for PE(N) connection, two M25 cable entry knockouts at top and at bottom.
	With operating membrane	IP65		**CI-PKZ01-G** 281404			
	Lockable in Off position	IP65	PKZM01 +NHI-E or +U or A +L (2 off)	**CI-PKZ01-SVB** 281405			
	Lockable in Off position in combination with VHI-PKZ01	IP65		**CI-PKZ01-SVB-V** 281944			
	With emergency switching off mushroom button, maintained	IP65		**CI-PKZ01-PVT** 281406			
	With emergency switching off mushroom button, with key-release	IP65		**CI-PKZ01-PVS** 281407			
	For extension with inserts CI/E-PKZ01-X... unit	As insert	PKZM01	**CI-PKZ01-X** 289934			
For Motor-protective circuit-breakers PKZM0							
	Cover with aperture dimensioned to accommodate front of breaker. IP40, when mounted turned through 90° to left/right	IP41 with vertical mounting	PKZM0-… +NHI or AGM +U or A +NHI-E +L-PKZ0 (2 off)	**CI-K2-PKZ0** 219653		1 off	M25 metric cable entry knockout, top and bottom Cable push-through membrane top, bottom, in the back plate and as a control line entry. Insulated enclosure CI-K2 incl. N and PE terminal.
	With black-grey rotary knob	IP65		**CI-K2-PKZ0-G** 219654			
	With red-yellow rotary knob, for use as emergency switching off device to EN 60204	IP65		**CI-K2-PKZ0-GR** 219655			
	Cover with aperture dimensioned to accommodate front of breaker	IP40	PKZM0-… +NHI or U or A +L-PKZ0 (2 off)	**CI-PKZ0-M** 267083			Integrated terminal for PE(N) connection, two M25 cable entry knockouts at top and at bottom.
	With black-grey rotary knob	IP55	PKZM0-… +NHI-E +NHI or U or A +L-PKZ0 (2 off)	**CI-PKZ0-GM** 260089			
	With red-yellow rotary knob, for use as emergency switching off device to EN 60204	IP55		**CI-PKZ0-GRM** 260104			
For Motor-protective circuit-breakers PKZM0 with early-make VHI auxiliary contacts							
	With black-grey rotary knob	IP65	PKZM0-... and VHI +NHI or AGM +U or A +L (2 off)	**CI-K2-PKZ0-GV** 219657		1 off	M25 metric cable entry knockout, top and bottom Cable push-through membrane top, bottom, in the back plate and as a control line entry. Insulated enclosure CI-K2 incl. N and PE terminal.
	With red-yellow rotary knob, for use as emergency switching off device to EN 60204	IP65		**CI-K2-PKZ0-GRV** 219656			
	With black-grey rotary knob	IP55	PKZM0-... and VHI +U or A (undervoltage or shunt release) +L-PKZ0 (2 off)	**CI-PKZ0-GVM** 263526			Integrated terminal for PE(N) connection, two M25 cable entry knockouts at top and at bottom.
	With red-yellow rotary knob, for use as emergency switching off device to EN 60204	IP55		**CI-PKZ0-GRVM** 263525			
For Motor-protective circuit-breakers PKZM4							
	With black-grey rotary knob	IP65	PKZM4-… +VHI or NHI-E +NHI and AGM +U or A +L-PKZ0 (2 off)	**CI-K4-PKZ4-G** 225524		1 off	Metric knockout: Top and bottom: M25/M32 In the back plate: M25/M32 Control cable entry: M20 CI-K4 insulated enclosure including insulated PE terminal
	With red-yellow rotary knob, for use as emergency switching off device to EN 60204	IP65		**CI-K4-PKZ4-GR** 225525			

		Degree of protection	For use with	**Part no.** Article no.	**Price** See price list	Std. pack	**Information relevant for export to North America**
Insulated enclosures for flush mounting							
For Motor-protective circuit-breaker PKZM01s Integrated terminal for PE(N) connection.							
		Front IP40	PKZM01 +NHI or U or A +NHI-E or VHI +L (2 off)	**E-PKZ01** 281633		1 off	Product Standards: UL 508; CSA-C22.2 No. 14; IEC60947-4-1; CE marking UL File No.: E36332 UL CCN: NLRV CSA File No.: 12528 CSA Class No.: 3211-05 NA Certification: UL Listed, CSA certified
	With operating membrane	Front IP65		**E-PKZ01-G** 281634		1 off	
	Lockable in Off position	Front IP65	PKZM01 +U or A +NHI-E	**E-PKZ01-SVB** 281635		1 off	
	Lockable in Off position, in combination with VHI-PKZ01	Front IP65	PKZM01 +U or A +NHI-E or VHI	**E-PKZ01-SVB-V** 281943		1 off	
	With emergency switching off mushroom button, maintained	Front IP65		**E-PKZ01-PVT** 281636		1 off	
	With emergency switching off mushroom button, with key-release	Front IP65		**E-PKZ01-PVS** 281637		1 off	
	For extension with inserts CI/E-PKZ01-X... unit	As insert	PKZM01	**E-PKZ01-X** 289935		1 off	
For Motor-protective circuit-breakers PKZM0 Integrated terminal for PE(N) connection.							
	Cover with aperture dimensioned to accommodate front of breaker	Front IP40	PKZM0-... +NHI or U or A +L-PKZ0 (2 parts)	**E-PKZ0** 072906		1 off	Product Standards: UL 508; CSA-C22.2 No. 14; IEC60947-4-1; CE marking UL File No.: E36332 UL CCN: NLRV CSA File No.: 12528 CSA Class No.: 3211-05 NA Certification: UL Listed, CSA certified
	With black-grey rotary knob	Front IP55	PKZM0-... +NHI or U or A +NHI-E +L-PKZ0 (2 parts)	**E-PKZ0-G** 072907		1 off	Product Standards: UL 508; CSA-C22.2 No. 14; IEC60947-4-1; CE marking UL File No.: E36332 UL CCN: NLRV CSA File No.: 12528 CSA Class No.: 3211-05 NA Certification: UL Listed, CSA certified Degree of Protection: IEC: Front IP55, UL/CSA Type: 1, 12, 3R
	With red-yellow rotary knob, for use as emergency switching off device to EN 60204	Front IP55		**E-PKZ0-GR** 072908		1 off	

Insulated enclosure

CI-PKZ

		Degree of protection	For use with	**Part no.** Article no.	**Price** See price list	Std. pack	**Information relevant for export to North America**
Insulated enclosures for surface mounting							
For Motor-protective circuit-breaker PKZM01s Integrated terminal for PE(N) connection.							
		IP41	PKZM01 +NHI-E or VHI-PKZ01 +U or A or NHI +L (2 off)	**CI-PKZ01-NA** 281408		1 off	Product Standards: UL 508; CSA-C22.2 No. 14; IEC60947-4-1; CE marking UL File No.: E36332 UL CCN: NLRV CSA File No.: 12528 CSA Class No.: 3211-05 NA Certification: UL Listed, CSA certified Specially designed for NA: ✓ Degree of Protection: IEC: IP41, UL/CSA Type: -
	With operating membrane	IP65	PKZM01 +NHI-E or VHI-PKZ01 +U or A or NHI +L (2 off)	**CI-PKZ01-NA-G** 281409		1 off	Product Standards: UL 508; CSA-C22.2 No. 14; IEC60947-4-1; CE marking UL File No.: E36332 UL CCN: NLRV CSA File No.: 12528 CSA Class No.: 3211-05 NA Certification: UL Listed, CSA certified Specially designed for NA: ✓ Degree of Protection: IEC: IP65, UL/CSA Type: -
	Lockable in Off position	IP65	PKZM01 +NHI-E or VHI-PKZ01 +U or A +L (2 off)	**CI-PKZ01-NA-SVB** 281630		1 off	
	Lockable in Off position, in combination with VHI-PKZ01	IP65	PKZM01 +NHI-E +U or A +L (2 off)	**CI-PKZ01-NA-SVB-V** 281945		1 off	
	With emergency switching off mushroom button, maintained	IP65		**CI-PKZ01-NA-PVT** 281631		1 off	
	With emergency switching off mushroom button, with key-release	IP65		**CI-PKZ01-NA-PVS** 281632		1 off	
For Motor-protective circuit-breakers PKZM0 Integrated N and PE terminals; lower section without knockouts							
	With black-grey rotary knob	IP55	PKZM0-… +NHI or U or A +NHI-E +L-PKZ0 (2 parts)	**CI-K2-PKZ0-NA-G** 262680		1 off	Product Standards: UL 508; CSA-C22.2 No. 14; IEC60947-4-1; CE marking UL File No.: E36332 UL CCN: NLRV CSA File No.: 12528 CSA Class No.: 3211-05 NA Certification: UL Listed, CSA certified Specially designed for NA: ✓ Degree of Protection: IEC: IP55, UL/CSA Type: 1, 12, 3R
	With red-yellow rotary knob, for use as emergency switching off device to EN 60204	IP55		**CI-K2-PKZ0-NA-GR** 262681		1 off	
For Motor-protective circuit-breakers PKZM0 with early-make auxiliary contacts Integrated N and PE terminals; lower section without knockouts							
	With black-grey rotary knob	IP55	PKZM0-… +VHI… + U… +L-PKZ0 (2 parts)	**CI-K2-PKZ0-NA-GV** 262682		1 off	
	With red-yellow rotary knob, for use as emergency switching off device to EN 60204	IP55		**CI-K2-PKZ0-NA-GRV** 262683		1 off	

		Degree of protection	For use with	**Part no.** Article no.	**Price** See price list	Std. pack	**Information relevant for export to North America**
Insulated enclosures, accessories							
Padlocking feature For up to 3 padlocks with 3 – 6 mm hasp thickness, for use as main switch to IEC/EN 60204							
	Lockable in the 0-position of the PKZM0 or Motor-protective circuit-breaker PKZM4.	–	CI-K2-PKZ0-G(R)(V) CI-PKZ0-G(R)(V)M	**SVB-PKZ0-CI** 035129		3 off	Product Standards: UL 508; CSA-C22.2 No. 14; IEC60947-4-1; CE marking UL File No.: E36332 UL CCN: NLRV CSA File No.: 12528 CSA Class No.: 3211-05 NA Certification: UL Listed, CSA certified
	–	–	E-PKZ0-G(R)	**SVB-PKZ0-E** 035127		3 off	
	–	–	CI-K4-PKZ4-G(R)	**SVB-PKZ4-CI** 225526		1 off	
Neutral terminal For connection of a 5th conductor							
	Flexible, 1 - 4 mm²	–	CI-K2-PKZ0-...	**K-CI-K1/2** 207451		20 off	UL/CSA certification not required
	63 A, flexible, 6 - 16 mm²	–	CI-K4-PKZ4-G(R)	**K25/1** 096200		10 off	
	–	–	E-PKZ0(-G)(-GR) E-PKZ01(-G)	**N-PKZ0** 082160		20 off	
Units for insulated enclosures for PKZ01							
Combinable with CI-PKZ01-X and E-PKZ01-X.							
	With operating membrane	Front IP65	PKZM01 +NHI-E or VHI-PKZ01 +U or A or NHI +L (2 off)	**CI/E-PKZ01-XG** 289936		1 off	
	Lockable in Off position		PKZM01 +NHI-E +U or A +L (2 off)	**CI/E-PKZ01-XSVB** 289939			
	With emergency switching off mushroom button, maintained		PKZM01 +NHI-E or VHI-PKZ01 +U or A +L (2 off)	**CI/E-PKZ01-XPVT** 289937			
	With emergency switching off mushroom button, with key-release		PKZM01 +NHI-E or VHI-PKZ01 +U or A +L (2 off)	**CI/E-PKZ01-XPVS** 289938			
	Lockable in Off position, in combination with VHI-PKZ01		PKZM01 VHI-PKZ01 +U or A +L (2 off)	**CI/E-PKZ01-XSVB-V** 289980			