MOTOR-STARTER-MANUAL PZK2

Part no. PKZ2/ZM-32

Article no. 045589

Powering Business Worldwide™

Delivery programme

Product range			PKZ2 motor protective circuit-breakers up to 40 A - PRODUCT DISCONTINUATION IN 2012
Basic function			Motor protection
Max. motor rating			
AC-3			
220 V 230 V 240 V			
220 V 230 V	P	kW	7.5
380 V 400 V 415 V			
380 V 400 V	P	kW	15
440 V	P	kW	17.5
500 V	P	kW	22
660 V 690 V			
660 V 690 V	P	kW	22
Rated uninterrupted current	I_u	A	32
Setting range			
Overload releases	I_r	A	24 - 32
Short-circuit releases	I_{rm}	A	275 - 425

Notes

Phase failure sensitivity to IEC/EN 60947-4-1, VDE 0660 part 102.

Overload releases, adjustable I_r = 0.6 - 1.0 x I_u

Adjustable short-circuit releases I_{rm} = 8.5 - 14 x I_u Factory-set to 12 x I_u

PTB 10 ATEX 3011

Observe manual.

NotesCan be snap-fitted to IEC/EN 60715 top-hat rail with 7.5 or 15 mm height

Notes

Accessories	**Page**
3 Standard auxiliary contact	→ 090677
5 Trip-indicating auxiliary contact	→ 017115
6 Shunt release, undervoltage release	→ 063967
7 Remote operators	→ 063676
8 Contact module, high-capacity contact module, current limiter	→ 063711
9 Clip plate	→ 052710
Additional accessories	→ 026234
Rated ultimate short-circuit breaking capacity	→ Technical data
Manual	→ 266166

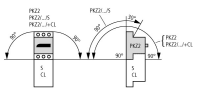
Can be snap fitted to IEC/EN 60715 with 7.5
or 15 mm height

Approvals

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	No
Suitable for	Branch circuit: as manual controller suitable for group installations

General

Standards			IEC/EN 60947, VDE 0660, UL 508, CSA C 22.2 No. 14, GL, LR, DNV, PRS, BV, RINA, RS, EZU, MEEI
Standards			UL 508 (on request) CSA C 22.2 No. 14 (on request)
Climatic proofing			Damp heat, constant to IEC 60068-2-78 Damp heat, cyclic to IEC 60068-2-30
Ambient temperature		°C	
Storage		°C	- 25 - 70
Open		°C	- 25 - 60
Enclosed		°C	- 25 - 40
Mounting position			
Direction of incoming supply			as required
Protection type			IP00
Mechanical shock resistance			
Half-sinusoidal shock 20 ms to IEC 60068-2-27		g	30
Altitude		m	2000
Terminal capacities		mm^2	
Solid or stranded		mm^2	1 x (1 - 16) 2 x (1 - 6)
Flexible with ferrule		mm^2	1 x (1.5 - 10) 2 x (1.5 - 6)
Solid or stranded		AWG	14 - 6
Specified tightening torque for terminal screws			
Main cable		Nm	1.8
Control circuit cables		Nm	1

Main conducting paths

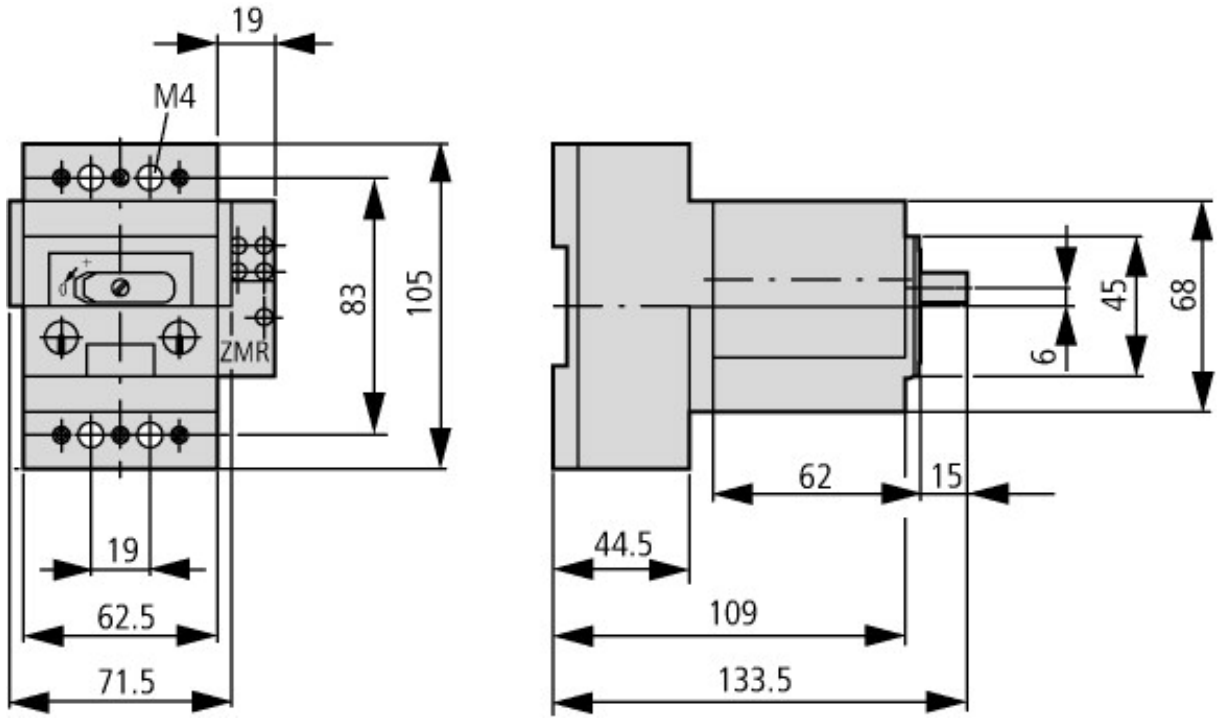
Rated impulse withstand voltage	U_{imp}	V AC	6000
Overvoltage category/pollution degree			III/3
Rated operational voltage	U_e	V AC	690
Rated operational voltage	U_e	V	230 - 415
Rated uninterrupted current = rated operational current	$I_u = I_e$	A	40
Rated frequency		Hz	50 - 60
Current heat loss (3-pole at operating temperature)		W	14
Lifespan, mechanical	Operations	x 10^6	0.1
Lifespan, electrical			
100 % AC-3	Operations	x 10^6	0.05
Maximum operating frequency		Ops./ h	
Max. operating frequency		Ops/ h	60
Motor switching capacity		kA_{rms}	
AC-3 (up to 690 V)		A	40
DC-5 up to 250 V		A	40
DC application			
Rated short-circuit breaking capacity I_{cn}	I_{cn}		
I_{cn} (250 V DC), L/R = 15 ms		kA	30
I_{cn} (125 V DC), L/R = 15 ms		kA	50
Operating times under short-circuit conditions			
Minimum command time		ms	Approx. 2
Opening delay		ms	Approx. 0.5

Total opening delay		ms	6

Technical data ETIM 4.0

Rated operation power at AC-3, 400 V		kWh	15
With integrated auxiliary switch			No
Rated permanent current Iu		A	32
With integrated under voltage release			No
Number of poles			3
Degree of protection (IP)			IP00
Connection type main current circuit			Screw connection

Dimensions



Motor-protective circuit-breaker and trip block
PKZ2/ZM… + ZMR-…-PKZ2

Additional product information (links)

AWA1280-0876 Motor-protective circuit-breaker	
	AWA1280-0876 Motor-protective circuit-breaker
AWB1210-1485 PKZ2 motor-protective circuit-breakers, overload monitoring of EEx e motors	
	AWB1210-1485 PKZ2 motor-protective circuit-breakers, overload monitoring of EEx e motors
Motor starters and "Special Purpose Ratings" for the North American market	http://www.moeller.net/binary/ver_techpapers/ver953en.pdf
Busbar Component Adapters for modern Industrial control panels	http://www.moeller.net/binary/ver_techpapers/ver960en.pdf