

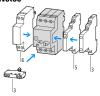
Motor-protective circuit-breaker, 3p, Ir=4-6.3A

Powering Business Worldwide™

Part no. PKZM01-6,3 Article no. 278483 Catalog No. XTPB6P3BC1

Delivery program

Product range Basic function Notes Contact sequence Ac.3 220 V 230 V 240 V 240 V 440 V P NW 1.1 Setting range Overload releases Imax Imax A 97.7 Connection technique Motor protection As suitable for motors with efficiency class IE3. IE3-ready devices are identified by the logo on their packaging. IE3-ready devices are identified by the logo on their packaging. III A 9.77 Connection technique P NW 3 97.7 Connection technique	zomor) program			
Notes Also suitable for motors with efficiency class IE3. IE3-ready devices are identified by the logo on their packaging. Max. motor rating AC-3 220 V 230 V 240 V 880 V 400 V 415 V 440 V P kW 2.2 440 V Setting range Overload releases Ir A 4-6.3 Short-circuit releases Imm A 97.7	Product range			PKZM01 motor protective circuit-breakers up to 16 A with pushbutton actuation
Notes Ass suitable for motors with efficiency class IE3. IE3-ready devices are identified by the logo on their packaging. Max. motor rating AC-3 220 V 230 V 230 V 240 V 380 V 400 V 400 V 400 V 400 V 400 V A40 V P KW 22 440 V P KW 3 Setting range Overload releases Verload releases Short-circuit releases Imax Imax A 97.7	Basic function			Motor protection
Contact sequence Max. motor rating AC-3 220 V 230 V 240 V 380 V 400 V 415 V 440 V P KW 2.2 Short-circuit releases Ir Max. motor rating IE3-ready devices are identified by the logo on their packaging. IE3-ready devices are identified by the logo on their packaging. IE3-ready devices are identified by the logo on their packaging. IE3-ready devices are identified by the logo on their packaging. IE3-ready devices are identified by the logo on their packaging. IE3-ready devices are identified by the logo on their packaging. IE3-ready devices are identified by the logo on their packaging. IE3-ready devices are identified by the logo on their packaging. IE3-ready devices are identified by the logo on their packaging. IE3-ready devices are identified by the logo on their packaging. IE3-ready devices are identified by the logo on their packaging. IE3-ready devices are identified by the logo on their packaging. IE3-ready devices are identified by the logo on their packaging. IE3-ready devices are identified by the logo on their packaging. IE3-ready devices are identified by the logo on their packaging. IE3-ready devices are identified by the logo on their packaging. IE3-ready devices are identified by the logo on their packaging. IE3-ready devices are identified by the logo on their packaging. IE3-ready devices are identified by the logo on their packaging. IE3-ready devices are identified by the logo on their packaging. IE3-ready devices are identified by the logo on their packaging. IE3-ready devices are identified by the logo on their packaging. IE3-ready devices are identified by the logo on their packaging. IE3-ready devices are identified by the logo on their packaging. IE3-ready devices are identified by the logo on their packaging. IE3-ready devices are identified by the logo on their packaging. IE3-ready devices are identified by the logo on their packaging. IE3-ready devices are identified by the logo on their packaging. IE3-ready devices are identified by the logo on their pa				IE3 ✓
Max. motor rating AC-3 220 V 230 V 240 V 380 V 400 V 415 V 440 V P kW 22 440 V Setting range Overload releases Ir A 4-6.3 Short-circuit releases	Notes			Also suitable for motors with efficiency class IE3. IE3-ready devices are identified by the logo on their packaging.
AC-3 220 V 230 V 240 V 380 V 400 V 415 V 440 V P kW 3 Setting range Overload releases U _r A 4-6.3 Short-circuit releases I _{rm} A 97.7	Contact sequence			F+
P kW 1.1	Max. motor rating			
230 V 240 V	AC-3			
400 V 415 V 440 V P kW 3 Setting range Overload releases Ir A 4-6.3 Short-circuit releases Irm A 97.7	230 V	Р	kW	1.1
Setting range Overload releases Ir A 4-6.3 Short-circuit releases max. Irm A 97.7	400 V	P	kW	2.2
Overload releases Ir A 4-6.3 Short-circuit releases max. Irm A 97.7	440 V	Р	kW	3
Short-circuit releases max. Irm A 97.7	Setting range			
max. I _{rm} A 97.7	Overload releases	l _r	Α	4 - 6.3
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Connection technique Screw terminals	max.	I _{rm}	Α	97.7
	Connection technique			Screw terminals



Accessory
3 Standard auxiliary contact
5 Trip-indicating auxiliary contact
6 Shunt release, undervoltage release
phase failure sensitivity to IEC/EN 60947-4-1, VDE 0660 part 102.
Can be snap-fitted to IEC/EN 60715 DIN-rail with 7.5 or 15 mm height

Page → 072896 → 072898 → 073187

Technical data

General			
Standards			IEC/EN 60947, VDE 0660
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Ambient temperature			
Storage	9	°C	-40 - +80
Open		°C	-25 - +55
Enclosed		°C	- 25 - 40

Mounting position			90°
Direction of incoming supply			as required
Degree of protection			
Device			IP20
Terminations			IP00
Protection against direct contact			Finger and back-of-hand proof
Mechanical shock resistance half-sinusoidal shock 10 ms to IEC 60068-2-27		g	25
Altitude		m	2000
Terminal capacity screw terminals		mm^2	
Solid		mm ²	1 x (1 - 6) 2 x (1 - 6)
Flexible with ferrule to DIN 46228		mm ²	1 x (1 - 6) 2 x (1 - 6)
Solid or stranded		AWG	18 - 10
Specified tightening torque for terminal screws			
Main cable		Nm	1.7
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 uninterrupted current = rated operational current	$I_u = I_e$	Α	16 or current setting of the overcurrent release
Rated frequency	f	Hz	40 - 60
Rated frequency		Hz	40 - 60
Current heat loss (3 pole at operating temperature)		W	6
Lifespan, mechanical	Operations	x 10 ⁶	0.05
Lifespan, electrical (AC-3 at 400 V)	Operations	x 10 ⁶	0.05
Maximum operating frequency		Ops./h	
Max. operating frequency		Ops/h	25
Short-circuit rating			
DC			
Short-circuit rating		kA	60
Short-circuit rating			60
Motor switching capacity		kA _{rms}	
AC-3 (up to 690 V)		A	16
DC-5 (up to 250 V)		A	16 (3 contacts in series)
Trip blocks			
Temperature compensation			
to IEC/EN 60947, VDE 0660		°C	- 5 40
Operating range		°C	- 25 55
Temperature compensation residual error for T > 40 $^{\circ}$ C			≦ _{0.25 %/K}
Setting range of overload releases		$x I_u$	0.6 - 1
Short-circuit release fixed		x I _u	15
short-circuit release			Basic device, fixed: 15.5 x l _u
Short-circuit release tolerance			± 20%

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	6.3
Heat dissipation per pole, current-dependent	P_{vid}	W	0
Equipment heat dissipation, current-dependent	P_{vid}	W	5.68

Static heat dissipation, non-current-dependent	P_{vs}	W	0
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	55
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures			Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat			Meets the product standard's requirements.
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects			Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation			Meets the product standard's requirements.
10.2.5 Lifting			Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact			Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions			Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES			Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances			Meets the product standard's requirements.
10.5 Protection against electric shock			Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components			Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections			Is the panel builder's responsibility.
10.8 Connections for external conductors			Is the panel builder's responsibility.
10.9 Insulation properties			
10.9.2 Power-frequency electric strength			Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage			Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material			Is the panel builder's responsibility.
10.10 Temperature rise			The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating			Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function			The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 6.0

Low-voltage industrial components (EG000017) / Motor protection circuit-breaker (EC000074)

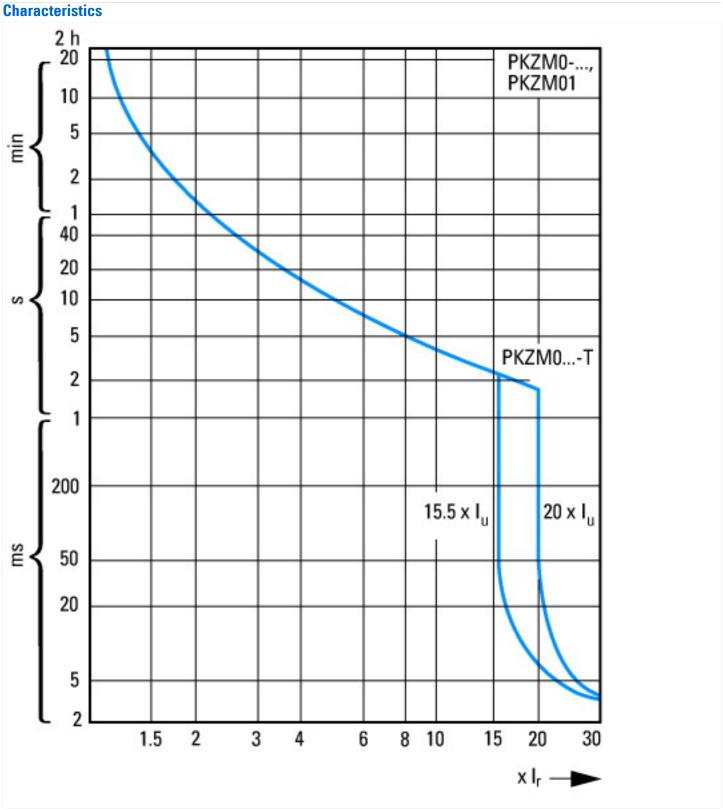
Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Motor protection circuit-breaker (ecl@ss8.1-27-37-04-01 [AGZ529013])

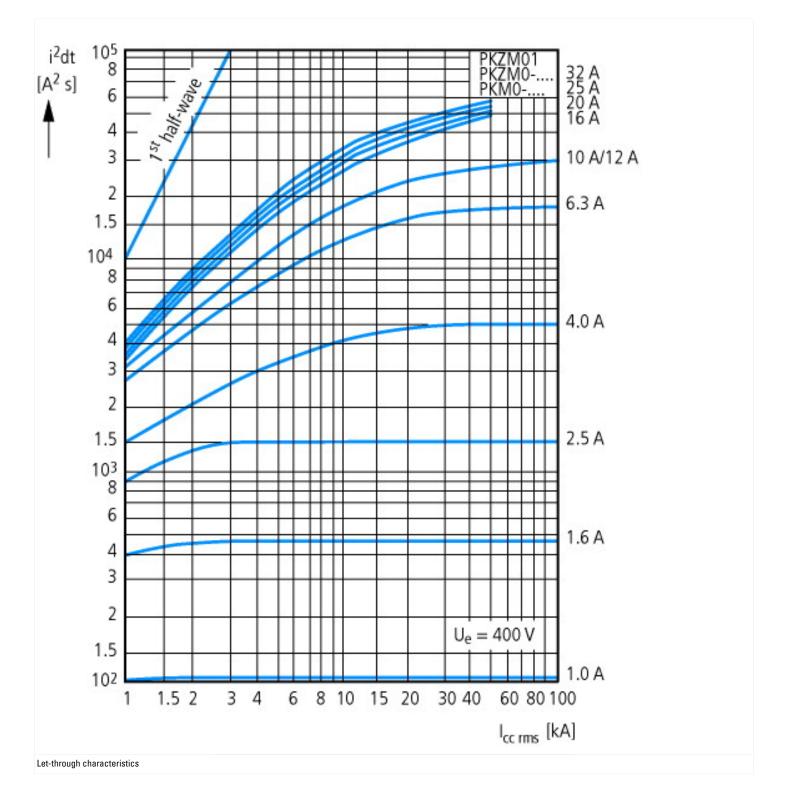
[AUZ029U13])		
Overload release current setting	Α	4 - 6.3
Adjustment range undelayed short-circuit release	Α	98 - 98
Thermal protection		No
Phase failure sensitive		Yes
Switch off technique		Thermomagnetic
Rated operating voltage	V	690 - 690
Rated permanent current lu	Α	6.3
Rated operation power at AC-3, 230 V	kW	1.1
Rated operation power at AC-3, 400 V	kW	2.2
Type of electrical connection of main circuit		Screw connection
Type of control element		Push button
Device construction		Built-in device fixed built-in technique
With integrated auxiliary switch		No
With integrated under voltage release		No
Number of poles		3
Rated short-circuit breaking capacity Icu at 400 V, AC	kA	50
Degree of protection (IP)		IP20
Height	mm	93
Width	mm	45

Depth 90.5 mm

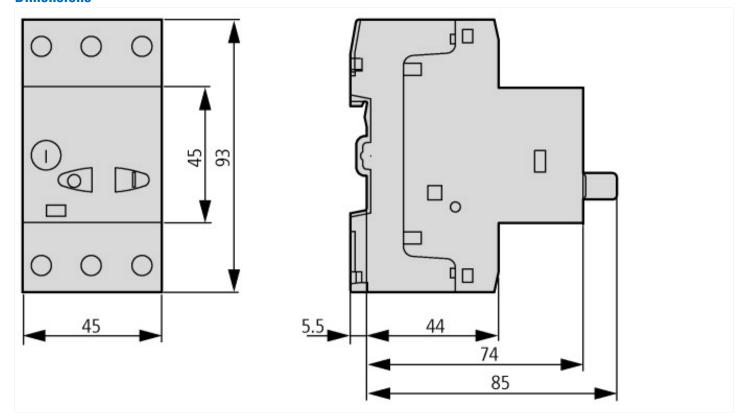
Approvals

Product Standards	UL 508; CSA-C22.2 No. 14; IEC60947-4-1; CE marking
UL File No.	E36332
UL Category Control No.	NLRV
CSA File No.	165628
CSA Class No.	3211-05
North America Certification	UL listed, CSA certified
Specially designed for North America	No
Suitable for	Branch circuit: Manual type E if used with terminal, or suitable for group installations





Dimensions



Additional product information (links)

Additional product information (miks)			
IL03407010Z (AWA1210-2138) Motor-protective circuit-breaker			
IL03407010Z (AWA1210-2138) Motor-protective circuit-breaker	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03407010Z2014_02.pdf		
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		