DATASHEET - PKZM0-32



Motor-protective circuit-breaker, 3p, Ir=25-32A

Part no.PKZM0-32Catalog No.278489Alternate Catalog XTPR032BC1NLNo.EL-Nummer4365084



Delivery program

(Norway)

Product range			PKZM0 motor protective circuit-breakers up to 32 A
Basic function			Motor protection
			IE3 ✓
Notes			Also suitable for motors with efficiency class IE3.
Connection technique			Screw terminals
Contact sequence			
Max. motor rating			
AC-3			
220 V 230 V 240 V	Р	kW	7.5
380 V 400 V 415 V	P	kW	15
440 V	P	kW	15
500 V	P	kW	22
660 V 690 V	Р	kW	30
Rated uninterrupted current	lu	А	32
Setting range			
Overload releases	lr	A	25 - 32
short-circuit release			
max.	Irm	A	496
Phase-failure sensitivity			IEC/EN 60947-4-1, VDE 0660 Part 102
NotesOverload trigger: tripping class 10 A Can be snapped on to IEC/EN 60715 top-hat rail with 7.5 or 15 mm I	height.		
Technical data General			
Standards			IEC/EN 60947_VDE 0660 UI_CSA

Standards		IEC/EN 60947, VDE 0660,UL, CSA
Climatic proofing		Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Ambient temperature		
Storage	°C	°C - 40 - 80
Open	°C	°C -25 - +55
Enclosed	°C	°C - 25 - 40
Mounting position		90° 00°
Direction of incoming supply		as required

Degree of protection			
Device			IP20
Terminations			IP00
Protection against direct contact when actuated from front (EN 50274)			Finger and back-of-hand proof
Mechanical shock resistance half-sinusoidal shock 10 ms to IEC 60068-2	-2	g	25
Altitude		m	Max. 2000
Terminal capacity main cable			
Screw terminals			
Solid		mm²	1 x (1 - 6)
			2 x (1 - 6)
Flexible with ferrule to DIN 46228		mm²	1 x (1 - 6) 2 x (1 - 6)
Solid or stranded		AWG	18 - 10
Stripping length		mm	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			111/3
Rated operational voltage	U _e	V AC	690
Rated uninterrupted current = rated operational current	I _u = le	A	32
Rated frequency	f	Hz	40 - 60
Current heat loss (3 pole at operating temperature)		W	9.56
Impedance per pole		mΩ	3
Lifespan, mechanical	Operations	x 10 ⁶	0.1
Lifespan, electrical (AC-3 at 400 V)			
Lifespan, electrical	Operations	x 10	0.1
Max. operating frequency		Ops/h	40
Short-circuit rating			
DC			
Short-circuit rating		kA	40
Notes			up to 250 V
Motor switching capacity			
AC-3 (up to 690V)		A	32
DC-5 (up to 250V)		А	25 (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 °C			≦ 0.25 %/K
Setting range of overload releases		x l _u	0.6 - 1
short-circuit release			Basic device, fixed: 15.5 _t x I
Short-circuit release tolerance			± 20%
Phase-failure sensitivity			IEC/EN 60947-4-1, VDE 0660 Part 102
Rating data for approved types Switching capacity			
Maximum motor rating			
Three-phase			
200 V 208 V		HP	7.5
230 V 240 V		HP	10
460 V 480 V		HP	20
575 V 600 V		HP	25

230 V 240 V	HP	5
Short Circuit Current Rating, type E	SCCR	
240 V	kA	18
480 Y / 277 V	kA	18
Accessories required		ВК25/3-РКZ0-Е
Short Circuit Current Rating, group protection	SCCR	
600 V High Fault		
SCCR (fuse)	kA	10
max. Fuse	А	150
SCCR (CB)	kA	10
max. CB	A	125
SCCR with CL (fuse)	A	18
max. Fuse (with CL)	A	600
SCCR with CL (CB)	kA	18
max. CB (with CL)	А	600

Design verification as per IEC/EN 61439

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Technical data ETIM 8.0

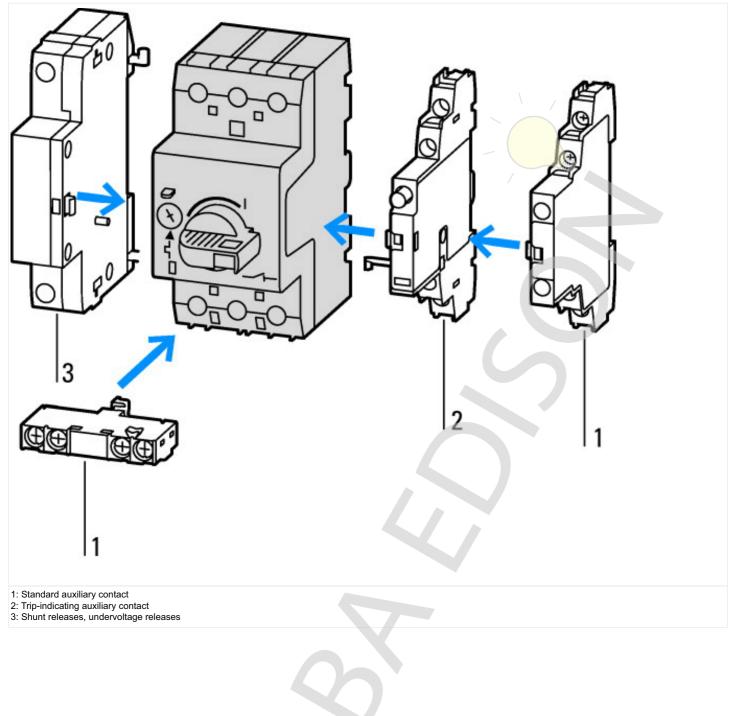
Low-voltage industrial components (EG000017) / Motor protection circuit-breaker (EC000074)

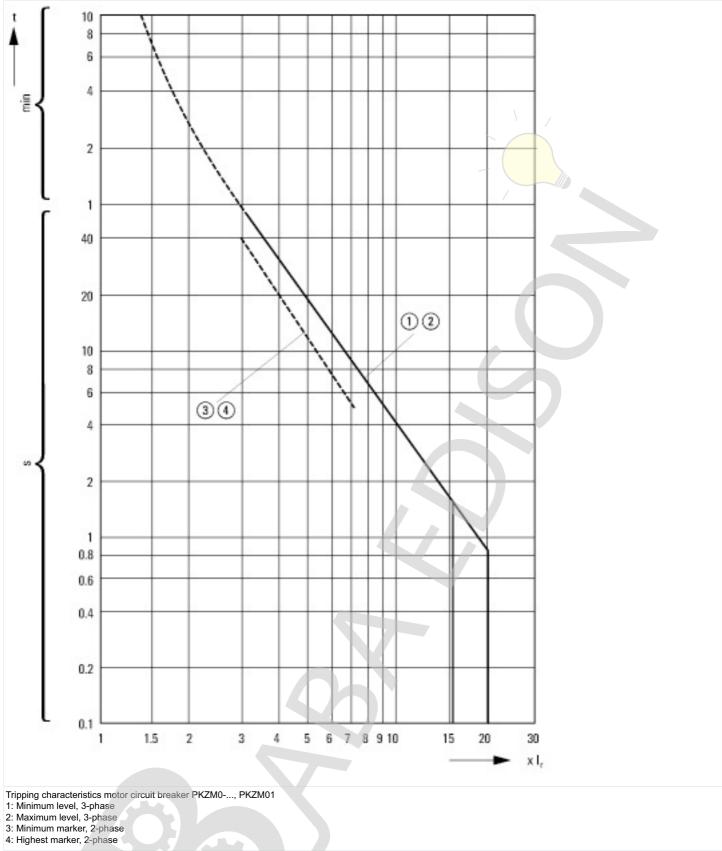
Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Motor protection circuit-breaker (ecl@ss10.0.1-27-37-04-01 [AGZ529016]) Overload release current setting А 25 - 32 A 496 - 496 Adjustment range undelayed short-circuit release With thermal protection No Phase failure sensitive Yes Switch o fftechnique Thermomagnetic Rated operating voltage v 690 - 690 Rated permanent current lu 32 А kW 7.5 Rated operation power at AC-3, 230 V Rated operation power at AC-3, 400 V kW 15 Type of electrical connection of main circuit Screw connection Type of control element Turn 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 IP20 Degree of protection (IP) Height 92.4 mm Width 45 mm Depth 75.2 mm

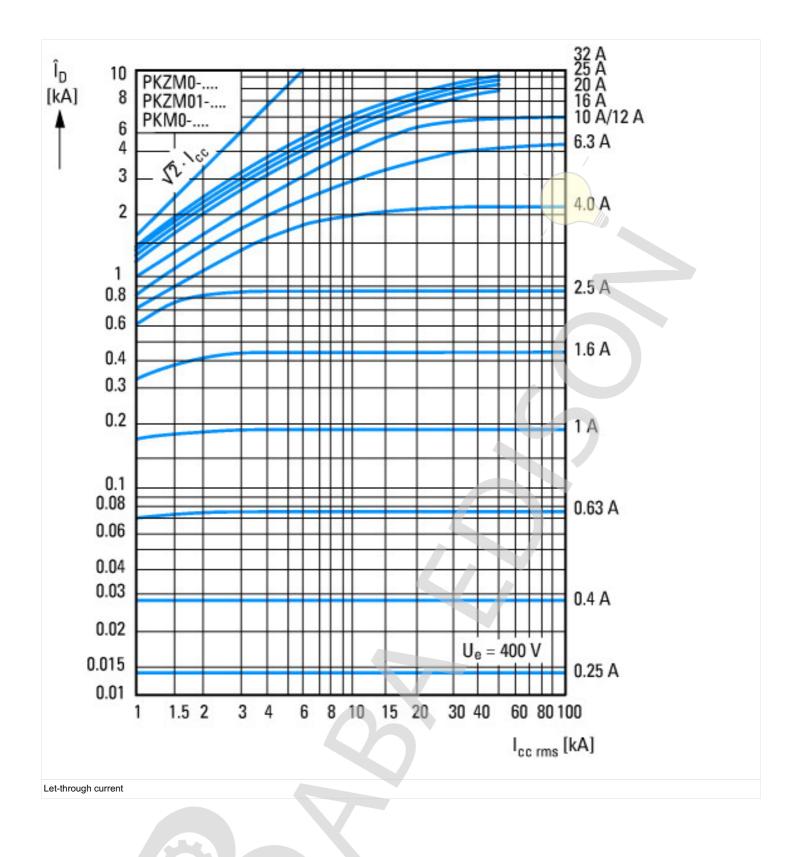
Approvals

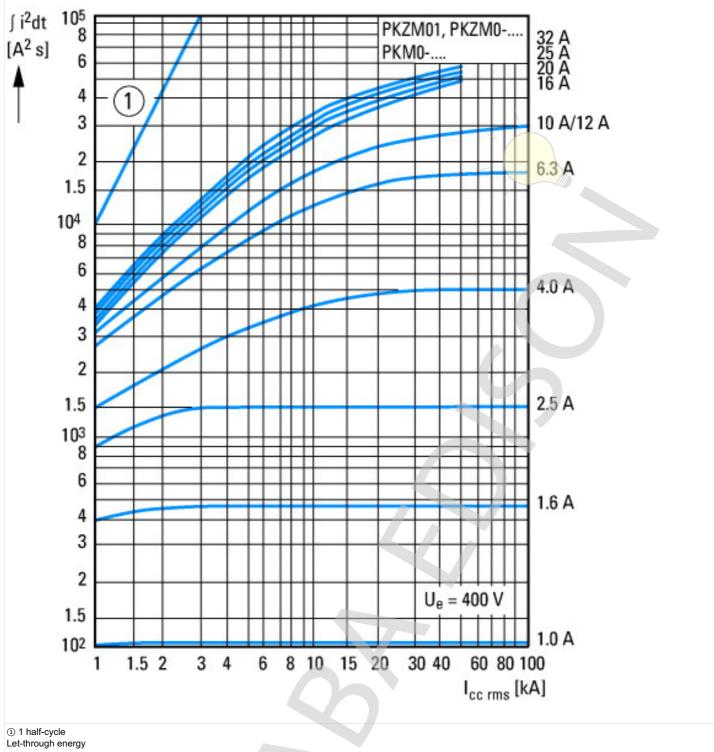
Product Standards	IEC/EN 60947-4-1; UL 60947-4-1; CSA - C22.2 No. 60947-4-1-14; CE marking
UL File No.	E36332
UL Category Control No.	NLRV
CSA File No.	165628
CSA Class No.	3211-05
North America Certification	UL listed, CSA certified
Specially designed for North America	No
Suitable for	Branch circuit: Manual type E if used with terminal, or suitable for group installations

Characteristics



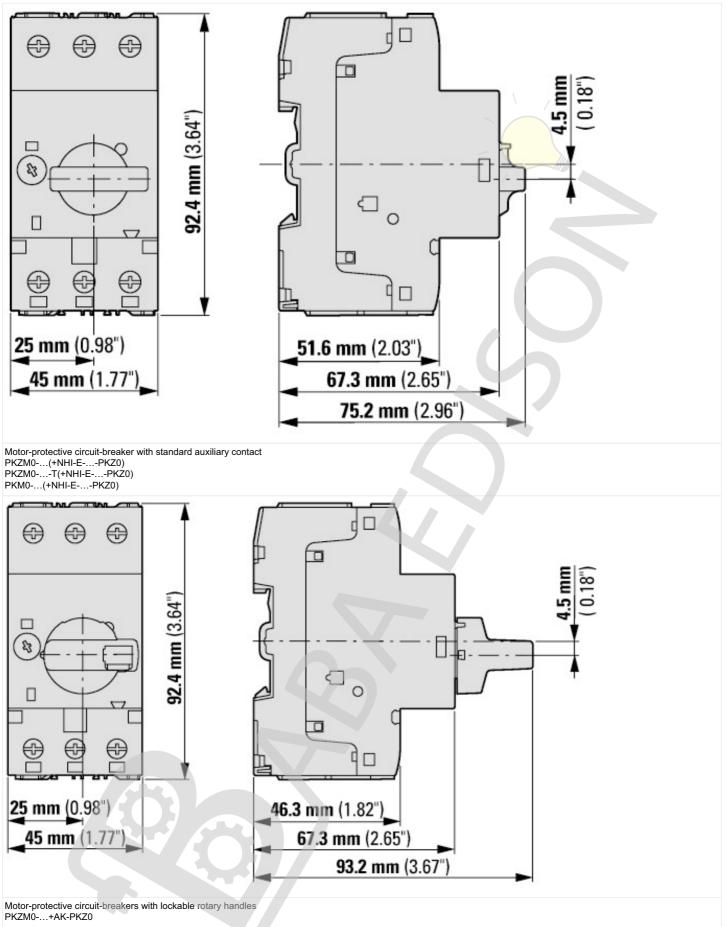


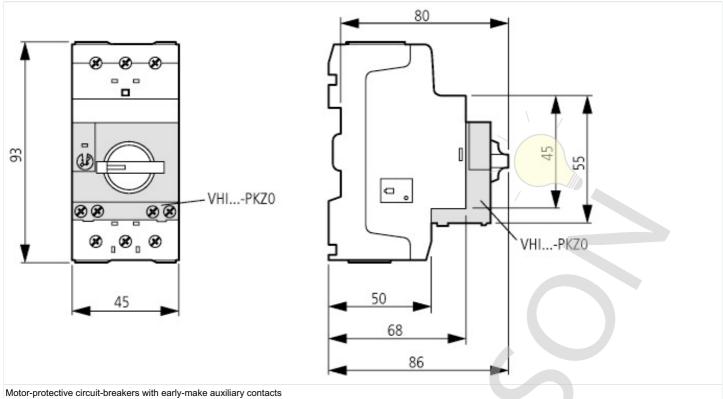






Dimensions





PKZM0-...+VHI-...-PKZ0

Schaltvermögen

Additional product information (links)

https://de.ecat.eaton.com/flip-cat/?edition=MOTCONT1_DE#page_3/44

Motor starters and "Special Purpose Ratings" for the North American mark http://www.eaton.eu/ecm/groups/public/@pub/@europe/@electrical/documents/content/pct_3258146.pdf

Busbar Component Adapters for modern Industrial control panels

http://www.moeller.net/binary/ver_techpapers/ver960en.pdf