DATASHEET - PKZM0-32

Motor-protective circuit-breaker, 3p, Ir=25-32A Part no.

Catalog No.

No.

PKZM0-32 278489 Alternate Catalog XTPR032BC1NL





EL-Nummer 4365084 (Norway)

Delivery program

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	Р	kW	15
440 V	Р	kW	15
500 V	Р	kW	22
660 V 690 V	Р	kW	30
Rated uninterrupted current	lu	А	32
Setting range			
Overload releases	I _r	A	25 - 32
short-circuit release			
max.	I _{rm}	А	496
Phase-failure sensitivity			IEC/EN 60947-4-1, VDE 0660 Part 102
Notes Overload trigger: tripping class 10 A Can be snapped on to IEC/EN 60715 top-hat rail with 7.5 or 15 mm height.			

Technical data

General		
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	- 40 - 80
Open	°C	-25 - +55
Enclosed	°C	- 25 - 40
Mounting position		90° 90°
Direction of incoming supply		as required

Degree of protection			
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 60068-2-27		g	25
Altitude		m	Max. 2000
Terminal capacity main cable			
Screw terminals			
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
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	Ue	V AC	690
Rated uninterrupted current = rated operational current	I _u = I _e	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
	operations	X 10°	
Lifespan, electrical (AC-3 at 400 V)			
Lifespan, electrical	Operations	x 10 ⁶	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)		А	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 $^{\circ}\mathrm{C}$			≦ 0.25 %/K
Setting range of overload releases		x I _u	0.6 - 1
short-circuit release			Basic device, fixed: 15.5 x l _u
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
Single-phase			
Salgio piluoo			

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		BK25/3-PKZ0-E
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	А	125
SCCR with CL (fuse)	А	18
max. Fuse (with CL)	А	600
SCCR with CL (CB)	kA	18
max. CB (with CL)	А	600

Design verification as per IEC/EN 61439

Technical data for design varieties on projection of specified hear dissipationImage of the specified	5 1 1 1 1 1 1			
Host dissipation per pole, current-dependent Pud W 319 Equipment heat dissipation, current-dependent Pud W 958 State heat dissipation, current-dependent Pud W 0 Operating ambient temperature mix. *C 25 Operating ambient temperature mix. *C 55 IECEN 51439 design verification of temsits and parts *C 56 10.2.2 Strength of materials and parts *C 56 10.2.2 Strength of materials and parts *C 56 10.2.2 Strength of materials and parts *C *C 10.2.2 Strength of materials and parts *C *C 10.2.2 Strength of materials and parts *C *C 10.2.3 Verification of fersitiance of insulating materials to abnormal heat and fire duri tentrend electric electrics *Meets the product standard's requirements. 10.2.3 Verification of fersitiance of insulating materials to abnormal heat and fire duri tentrend electric electrics *Meets the product standard's requirements. 10.2.3 Mechanical impact *Meets the product standard's requirements. *Meets the product standard's requirements. 10.2.3 Mechanical impact *Meets the product s	Technical data for design verification			
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Stric heat dissipation, non-current-dependent Pm W Image: Pm Pm W Beat dissipation capacity Pain VM 0 </td <td>Heat dissipation per pole, current-dependent</td> <td>P_{vid}</td> <td>W</td> <td>3.19</td>	Heat dissipation per pole, current-dependent	P _{vid}	W	3.19
Heat dissipation capacityPointPointPointOperating ambient temperature min.rC-25Operating ambient temperature max.rC55IECEN 1438 design verificationrC5610.22 Strength of metarials and partsrCMeets the product standard's requirements.10.23 Corresion resistanceof nesting of nesting of nesting of neclosuresMeets the product standard's requirements.10.23 Corresion resistance of insulating materials to abnormal heatMeets the product standard's requirements.10.23 Lytification of resistance of insulating materials to abnormal heatMeets the product standard's requirements.10.23 Lytification of resistance of insulating materials to abnormal heatMeets the product standard's requirements.10.23 Lytification of resistance of insulating materials to abnormal heatMeets the product standard's requirements.10.24 Resistance to uitra-violet (UV) radiationMeets the product standard's requirements.10.25 DescriptionsMeets the product standard's requirements.10.25 DescriptionsMeets the product standard's requirements.10.3 Degree of protection of ASSEMBLIESDes not apply, since the entire switchgear needs to be evaluated.10.45 Protection against electric shockMeets the product standard's requirements.10.51 Notrceine against electric shockMeets the product standard's requirements.10.52 Demections for external conductorsIs the panel builder's responsibility.10.51 Strotection against electric shockMeets the product standard's requirements.10.52 Demections for external conductors <t< td=""><td>Equipment heat dissipation, current-dependent</td><td>P_{vid}</td><td>W</td><td>9.56</td></t<>	Equipment heat dissipation, current-dependent	P _{vid}	W	9.56
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10.13 Mechanical function observed.	10.11 Short-circuit rating			
	10.12 Electromagnetic compatibility			
	10.13 Mechanical function			

Technical data ETIM 7.0

Electric engineering, automation, process control engineering / Low-voltage	e switch technology	Circuit br	eaker (LV < 1 kV) / Motor protection circuit-breaker (ecl@ss10.0.1-27-37-04-01
[AGZ529016])			
Overload release current setting		А	32 - 32
Adjustment range undelayed short-circuit release		А	496 - 496
With thermal protection			Yes
Phase failure sensitive			Yes
Switch off technique			Thermomagnetic
Rated operating voltage		V	690 - 690
Rated permanent current lu		А	32
Rated operation power at AC-3, 230 V		kW	7.5
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
Degree of protection (IP)			IP20
Height		mm	93
Width		mm	45

Approvals

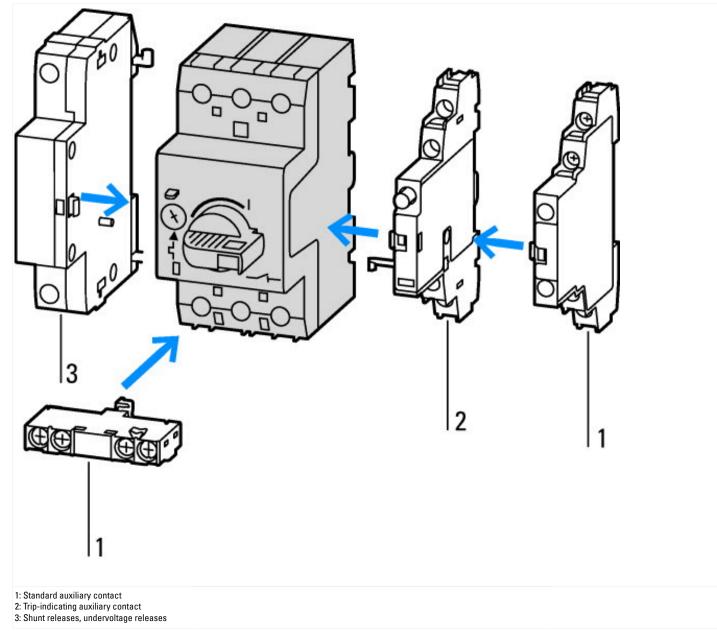
Depth

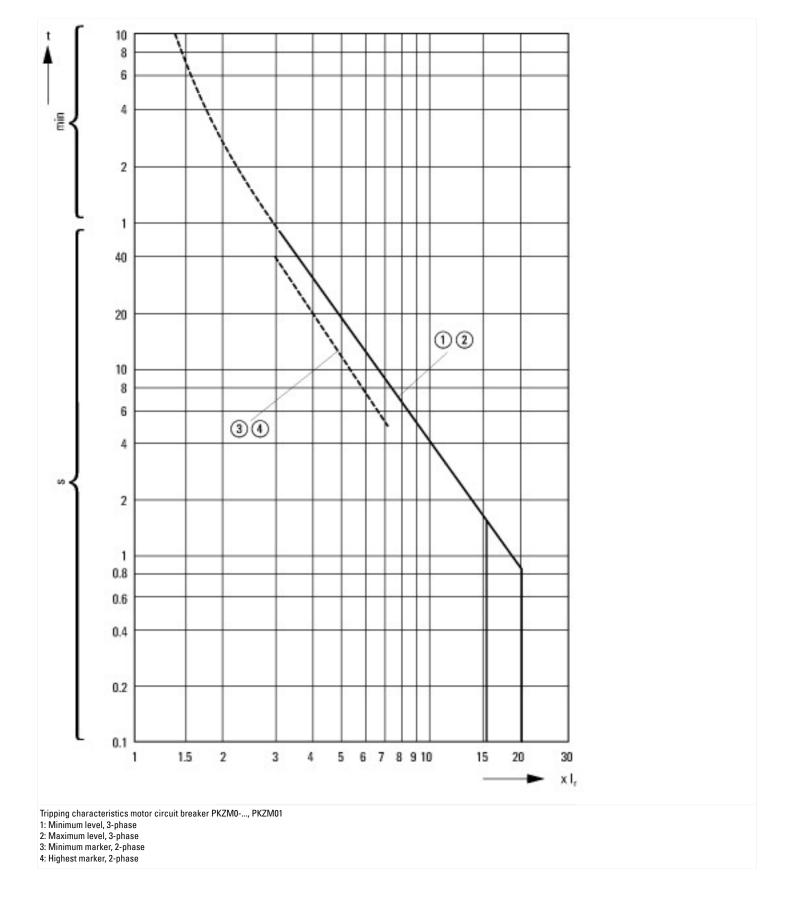
L File No. E36322 L Category Control No. NLRV SA File No. SA File No. SA File No. Sa File No. Sa Catason Sa Ca		
L Category Control No. NLRV SA File No. 165628 SA Class No. SA Class No. lorth America Certification Image: Certification pecially designed for North America Image: Certification uitable for Image: Certification	Product Standards	IEC/EN 60947-4-1; UL 60947-4-1; CSA - C22.2 No. 60947-4-1-14; CE marking
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uitable for Branch circuit: Manual type E if used with terminal, or suitable for group	North America Certification	UL listed, CSA certified
	Specially designed for North America	No
	Suitable for	

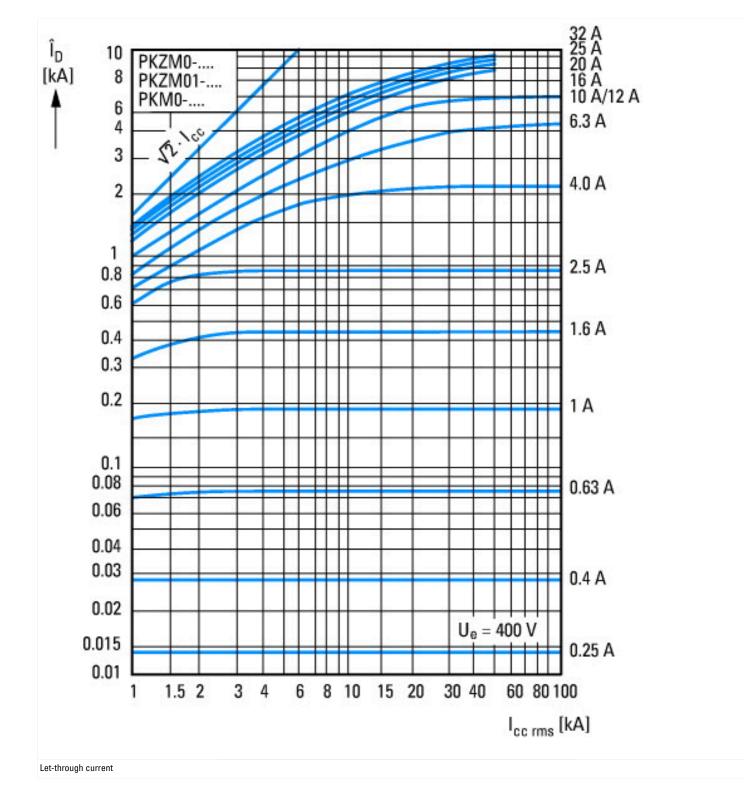
76

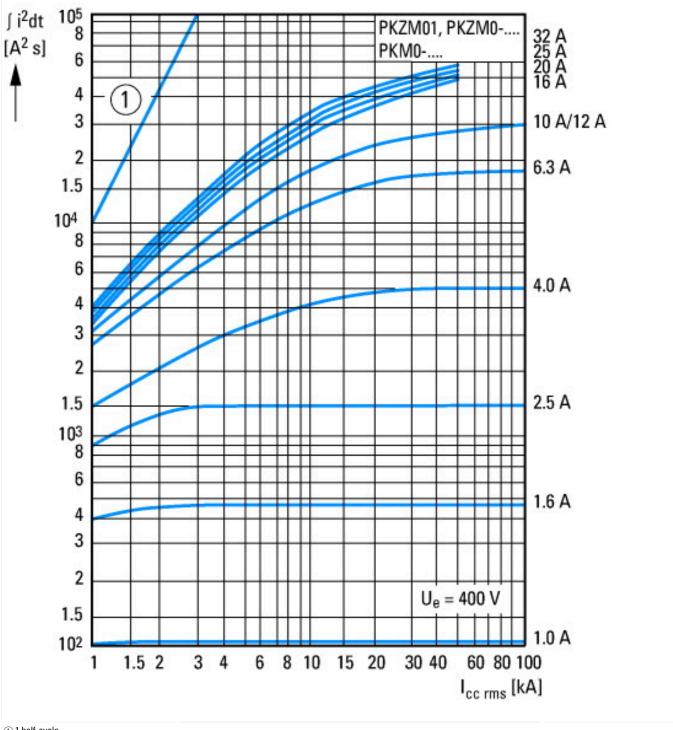
mm

Characteristics









① 1 half-cycle Let-through energy

Dimensions

