

**Trip block, 8 - 32 A, Motor protection, Connection to SmartWire-DT: yes,
For use with: PKE32 basic device**



Part no. PKE-XTUA-32
Catalog No. 121730
Alternate Catalog No. XTPEXTA032B
EL-Nummer (Norway) 4355193

Delivery program

Product range			Accessories
Accessories			Trip blocks
Basic function			Motor protection Motor protection for heavy starting duty
Notes			Also suitable for motors with efficiency class IE3. IE3-ready devices are identified by the logo on their packaging.

Setting range

Overload releases			
Setting range of overload releases	I_r	A	8 - 32
Overload release, min.	I_r	A	8
Overload release, max.	I_r	A	32
Function			With overload release
Rated uninterrupted current = rated operational current	$I_u = I_e$	A	32

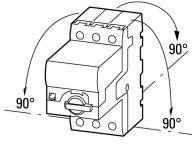
Motor rating

AC-3				
220 V 230 V	P	kW	7.5	
380 V 400 V	P	kW	15	
440 V	P	kW	15	
500 V	P	kW	18.5	
660 V 690 V	P	kW	30	
For use with				PKE32 basic device
Connection to SmartWire-DT				yes in conjunction with PKE-SWD-SP SmartWire DT PKE module in conjunction with PKE-SWD-32 SmartWire DT PKE module

Motor output/rated motor current		Rated motor current					
Motor rating	AC-3	220 V	380 V	440 V	500 V	660 V	
		230 V	400 V			690 V	
		240 V	415 V				
P		I	I	I	I	I	
kW		A	A	A	A	A	
2.2		8.7	-	-	-	-	
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	

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			
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 60068-2-27		g	25
Altitude		m	Max. 2000

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	$I_u = I_e$	A	32
Rated frequency	f	Hz	40 - 60
Max. operating frequency		Ops/h	60
Motor switching capacity			
AC-3 (up to 690V)		A	32
AC-4 cycle operation			
Minimum current flow times		ms	500 (Class 5) 700 (Class 10) 900 (Class 15) 1000 (Class 20)
Minimum cut-out periods		ms	500
Note		ms	In AC-4 cycle operation, going below the minimum current flow time can cause overheating of the load (motor). For all combinations with an SWD activation, you need not adhere to the minimum current flow times and minimum cut-out periods.

Trip blocks

Temperature compensation			
to IEC/EN 60947, VDE 0660		°C	- 5 ... 40
Operating range		°C	- 25 ... 55
Setting range of overload releases		$x I_u$	0.25 - 1
short-circuit release			Trip block, fixed: $15.5 \times I_r$ delayed approx. 60 ms
Short-circuit release tolerance			$\pm 20\%$
Phase-failure sensitivity			IEC/EN 60947-4-1, VDE 0660 Part 102

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	I_n	A	32
Heat dissipation per pole, current-dependent	P_{vid}	W	1.3
Equipment heat dissipation, current-dependent	P_{vid}	W	3.9
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.

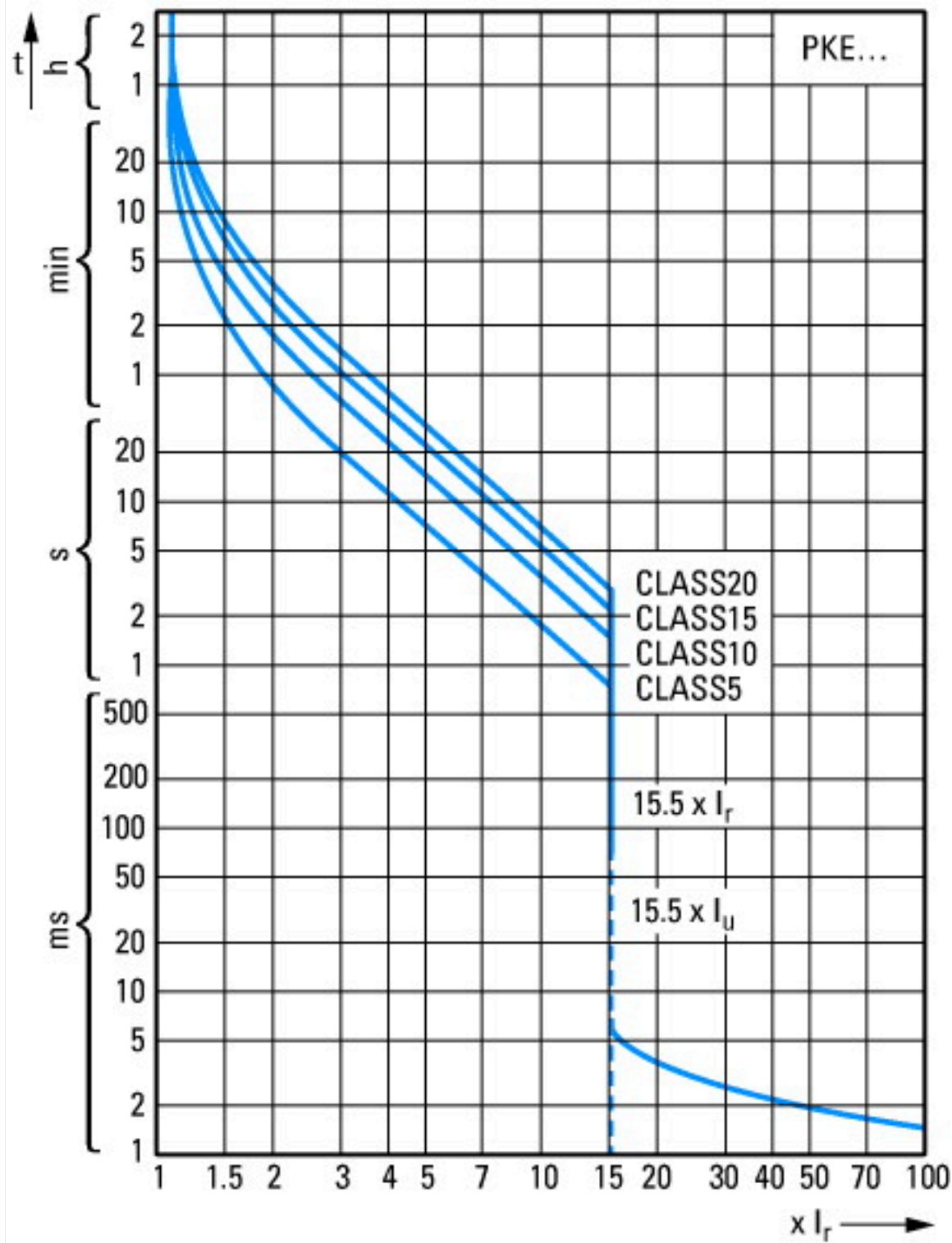
Technical data ETIM 7.0

Low-voltage industrial components (EG000017) / Tripping bloc for power circuit-breaker (EC000617)			
Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Releasing block for circuit breakers (ecl@ss10.0.1-27-37-04-10 [AKF008013])			
Overload release current setting	A		8 - 32
Initial value of the undelayed short-circuit release - setting range	A		124
End value adjustment range undelayed short-circuit release	A		496
Rated permanent current I _u	A		32
Voltage type for actuating			Self powered
Rated control supply voltage U _s at AC 50HZ	V		0 - 0
Rated control supply voltage U _s at AC 60HZ	V		0 - 0
Rated control supply voltage U _s at DC	V		0 - 0
Number of poles			3
Short-circuit release function			Delayed
With ground fault protection function			No
Type of motor protection			Electronic release

Approvals

Product Standards			UL 508; CSA-C22.2 No. 14-10; 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

Characteristics



Tripping characteristics

Additional product information (links)

IL034011ZU Trip block for solid-state motor-protective circuit-breaker PKE12, PKE32

IL034011ZU Trip block for solid-state motor-protective circuit-breaker PKE12, PKE32

ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL034011ZU2018_03.pdf

MN03402004Z PKE12, PKE32 and PKE65 motor-protective circuit-breakers; overload monitoring of Ex e motors

MN03402004Z PKE12, PKE32 and PKE65 motor-protective circuit-breakers; overload monitoring of Ex e motors - Deutsch / English

ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN03402004Z_DE_EN.pdf

Motor starters and "Special Purpose Ratings" for the North American market

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

