

## Trip block, 0.3-1.2A, networkable, motor protection

Part no. **PKE-XTUA-1,2**  
 Article no. **121727**  
 Catalog No. **XTPEXTA1P2B**



### Delivery programme

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.
<b>Setting range</b>			
Overload releases			
Setting range of overload releases	$I_r$	A	0.3 - 1.2
Overload release, min.	$I_r$	A	0.3
Overload release, max.	$I_r$	A	1.2
Function			With overload release
Rated uninterrupted current = rated operational current	$I_u = I_e$	A	1.2
<b>Motor rating</b>			
AC-3			
220 V 230 V	P	kW	0.18
380 V 400 V	P	kW	0.37
440 V	P	kW	0.37
500 V	P	kW	0.37
660 V 690 V	P	kW	0.75
For use with			PKE12 basic device
Connection to SmartWire-DT			with PKE-SWD-32 or PKE-SWD-SP
Motor output/rated motor current			
Motor rating	Rated motor current		
AC-3			
	220 V	380 V	440 V
	230 V	400 V	500 V
	240 V	415 V	660 V
P	I	I	I
kW	A	A	A
0.06	0.37	-	-
0.09	0.54	0.31	-
0.12	0.72	0.41	0.37
0.18	1.04	0.6	0.54
0.25	-	0.8	0.76
0.37	-	1.1	1.02
0.55	-	-	-
0.75	-	-	-
			690 V
			0.35
			0.5
			0.7
			0.9
			1.1

### Technical data

<b>General</b>			
Standards			IEC/EN 60947, VDE 0660, UL 508, CSA C 22.2 No. 14
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Ambient temperature			
Storage	$\theta$	°C	-40 - +80
Open		°C	-20 - +55
Enclosed		°C	-20 - +40

Direction of incoming supply			as required
Degree of protection			
Device			IP20
Terminations			IP00
Busbar tag shroud to 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	1.2
Rated frequency	f	Hz	40 - 60
Maximum operating frequency		Ops./h	
Max. operating frequency		Ops/h	60
Motor switching capacity		$kA_{rms}$	
AC-3 (up to 690 V)		A	1.2

### Trip blocks

Temperature compensation		°C	-5 - +40 (to IEC/EN 60947, VDE 0660) -25 - +55 (operating range)
Temperature compensation residual error for $T > 40$ °C			±55 (Arbeitsbereich)
Setting range of overload releases			$0.25 - 1 \times I_u$
short-circuit release			Trip block, fixed: $15.5 \times I_r$ delayed approx. 60 ms
Short-circuit release tolerance			± 20%
Phase-failure sensitivity			yes

### Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	$I_n$	A	1.2
Heat dissipation per pole, current-dependent	$P_{vid}$	W	0.1
Equipment heat dissipation, current-dependent	$P_{vid}$	W	0.3
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			
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.

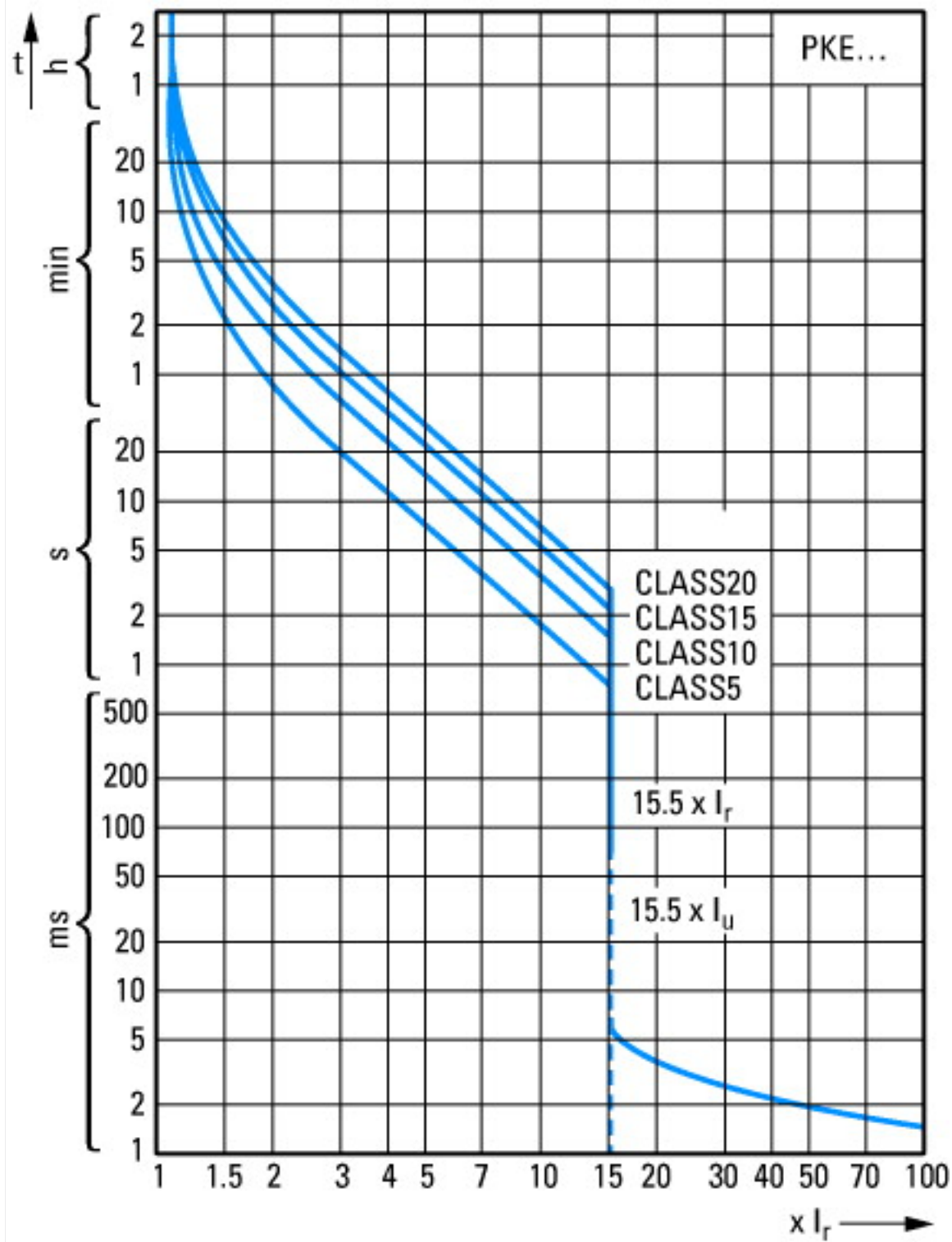
## Technical data ETIM 6.0

Low-voltage industrial components (EG000017) / 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 (ec1@ss8.1-27-37-04-10 [AKF008010])		
Overload release current setting	A	0.3 - 1.2
Initial value of the undelayed short-circuit release - setting range	A	4.65
End value adjustment range undelayed short-circuit release	A	18.6
Rated permanent current I <sub>u</sub>	A	1.2
Number of poles		3
Short-circuit release function		Delayed

## 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)

### 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](ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN03402004Z_DE_EN.pdf)

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

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