# DATASHEET - PKE-XTU-1,2



Trip block, 0.3 - 1.2 A, Motor protection, Connection to SmartWire-DT: no, For use with: PKE12 basic device



Part no.	PKE-XTU-1,2
Catalog No.	121723
Alternate Catalog	XTPEXT1P2B
No.	
EL-Nummer	4315135
(Norway)	

### **Delivery program**

Derivery program							
Product range					Accessories		
Accessories					Trip blocks		
Basic function					Motor protection Motor protection for he	avy starting duty	
					IE3 🗸		
Notes					Also suitable for motors	with efficiency class IE3.	
Setting range							
Overload releases							
中							
Setting range of overload	l releases		١ <sub>r</sub>	A	0.3 - 1.2		
Overload release, min.			l <sub>r</sub>	А	0.3		
Overload release, max.			l <sub>r</sub>	A	1.2		
Function					With overload release		
Rated uninterrupted current = ra	ated operational current		I <sub>u</sub> = I <sub>e</sub>	А	1.2		
Motor rating							
AC-3							
220 V 230 V			Ρ	kW	0.18		
380 V 400 V			Р	kW	0.37		
440 V			Р	kW	0.37		
500 V			Р	kW	0.37		
660 V 690 V			Р	kW	0.75		
For use with					PKE12 basic device		
Connection to SmartWire-DT					no		
Motor output/rated motor currer Motor rating AC-3	nt Rated motor current						
A0-3	220 V	380 V		4	40 V	500 V	660 V
	230 V	400 V					690 V
_	240 V	415 V					
P kW	l A	l A		I A		I A	I A
0.06	0.37	-		-		-	-
0.09 0.12	0.54 0.72	0.31 0.41		- 0.	.37	- 0.33	-
0.18	1.04	0.6		0.	.54	0.48	0.35
0.25	-	0.8		0.	.76	0.7	0.5
	-	1.1			.02	0.9	0.7
0.37 0.55	-	-		-		-	0.9

# **Technical data**

Standards

Climatic proofing

IEC/EN 60947, VDE 0660,UL, CSA

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 <sub>imp</sub>	V AC	6000
Overvoltage category/pollution degree			III/3
Rated operational voltage	U <sub>e</sub>	V AC	690
Rated uninterrupted current = rated operational current	I <sub>u</sub> = I <sub>e</sub>	A	1.2
Rated frequency	f	Hz	40 - 60
Max. operating frequency		Ops/h	60
Motor switching capacity			
AC-3 (up to 690V)		A	1.2
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 <sub>u</sub>	0.25 - 1
short-circuit release			Trip block, fixed: 15.5 x I <sub>r</sub> delayed approx. 60 ms
Short-circuit release tolerance			± 20%
Phase-failure sensitivity			IEC/EN 60947-4-1, VDE 0660 Part 102

# Design verification as per IEC/EN 61439

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Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	1.2
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0.1
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	0.3
Static heat dissipation, non-current-dependent	P <sub>vs</sub>	W	0
Heat dissipation capacity	P <sub>diss</sub>	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.

102.3.2 Verification of resistance of insulating materials to normal head and fire due to internal electric effectsMets the product standard's requirements.102.3.3 Verification of resistance of insulating materials to abnormal head and fire due to internal electric effectsMets the product standard's requirements.102.4 Resistance to ultra-violet (UV) radiationMets the product standard's requirements.102.5 LiftingDes not apply, since the entire switchgear needs to be evaluated.102.6 Mechanical inpactDes not apply, since the entire switchgear needs to be evaluated.103.0 Egree of protection of ASSEMBLIESDes not apply, since the entire switchgear needs to be evaluated.104.0 Elearances and creepage distancesMets the product standard's requirements.105.0 Encorporation of switching devices and componentsMets the product standard's requirements.105.0 Encorporation of switching devices and componentsMets the panel builder's responsibility.105.0 Encorections for external conductorsIs the panel builder's responsibilit		
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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, provide the information in the instruction	10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
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	10.12 Electromagnetic compatibility	
	10.13 Mechanical function	

### **Technical data ETIM 7.0**

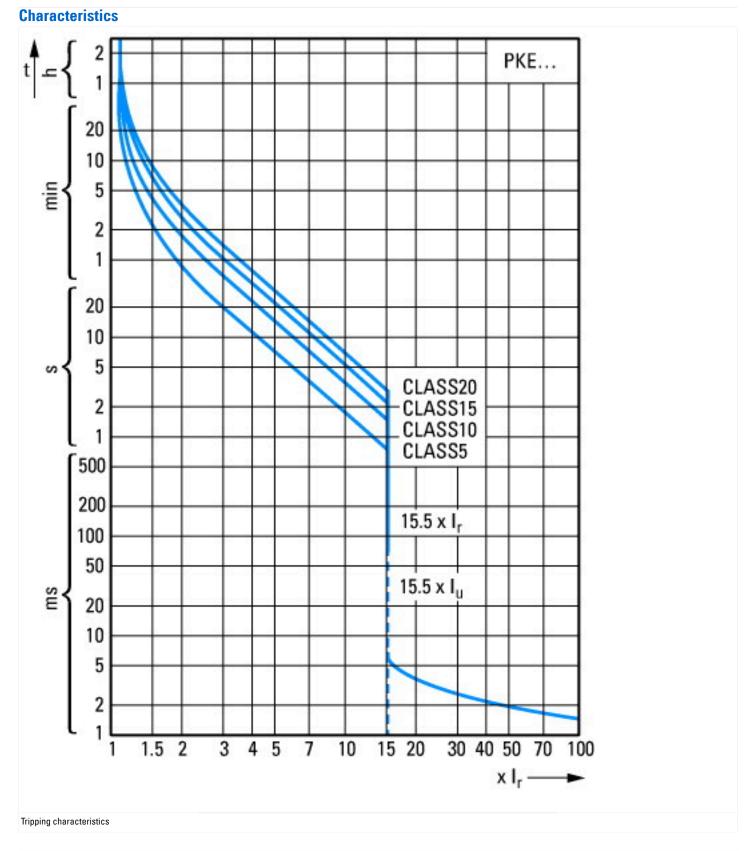
Low-voltage industrial components (EG000017) / Tripping bloc for power circuit-breaker (EC000617)

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	А	0.3 - 1.2
Initial value of the undelayed short-circuit release - setting range	А	4.65
End value adjustment range undelayed short-circuit release	А	18.6
Rated permanent current lu	А	1.2
Voltage type for actuating		Self powered
Rated control supply voltage Us at AC 50HZ	V	0 - 0
Rated control supply voltage Us at AC 60HZ	V	0 - 0
Rated control supply voltage Us 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**

UL 508; CSA-C22.2 No. 14-10; IEC60947-4-1; CE marking
E36332
NLRV
165628
3211-05
UL listed, CSA certified
No



## Additional product information (links)

Motor starters and "Special Purpose Ratings" for the North American market Busbar Component Adapters for modern Industrial control panels http://www.eaton.eu/ecm/groups/public/@pub/@europe/@electrical/documents/content/pct\_3258146.pdf http://www.moeller.net/binary/ver\_techpapers/ver960en.pdf