

Trip block, 1-4A, standard, motor protection

Powering Business Worldwide*

Part no. PKE-XTU-4
Article no. 121724
Catalog No. XTPEXT004B

Delivery program

Delivery program							
Product range					Accessories		
Accessories					Trip blocks		
Basic function					Motor protection Motor protection for heavy s	tarting duty	
					IE3 🗸		
Notes					Also suitable for motors with IE3-ready devices are identif		ir packaging.
Setting range							
Overload releases							
Setting range of overload of	releases		I _r	A	1 - 4		
Overload release, min.			I _r	Α	1		
Overload release, max.			I _r	Α	4		
Function					With overload release		
Rated uninterrupted current = rate	ed operational current		$I_u = I_e$	Α	4		
Motor rating							
AC-3							
220 V 230 V			P	kW	0.75		
380 V 400 V			P	kW	1.5		
440 V			Р	kW	1.5		
500 V			P	kW	2.2		
660 V 690 V			P	kW	3		
For use with					PKE12 basic device PKE32 basic device		
Connection to SmartWire-DT					No		
Motor output/rated motor current Motor rating	Rated motor current AC-3 220 V	380 V 400 V		44	0 V	500 V	660 V 690 V
	240 V	415 V					
P kW	I A	I A		I A		I A	l A
0.18	1.04	-		-		-	-
0.25 0.37	1.4 2	- 1.1		- 1.0	12	-	-
0.55	2.7	1.1		1.0	oz 39	- 1.2	-
0.75	3.2	1.9		1.6	68	1.5	1.1
1.1	-	2.6		2.4	41	2.1	1.5
1.5	-	3.6		3.2	28	2.9	2.1
2.2	-	-		-		4	2.9
3	-	-		-		-	3.8

Technical data

Genera

General			
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	9	°C	-40 - +80

	°C	-20 - +55
	°C	-20 - +40
		as required
		IP20
		IP00
		Finger- and back-of-hand proof
	g	25
	m	Max. 2000
U_{imp}	V AC	6000
		III/3
U _e	V AC	690
$I_u = I_e$	Α	4
f	Hz	40 - 60
	Ops./h	
	Ops/h	60
	kA _{rms}	
	Α	4
	°C	-5 - +40 (to IEC/EN 60947, VDE 0660) -25 - +55 (operating range)
		±55 (Arbeitsbereich)
		0.25 - 1 x I _u
		Trip block, fixed: $15.5 \times I_r$ delayed approx. 60 ms
		± 20%
	U _e $I_u = I_e$	Q

yes

Design verification as per IEC/EN 61439

Phase-failure sensitivity

Design verification as per IEG/EN 01439			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	4
Heat dissipation per pole, current-dependent	P _{vid}	W	0.2
Equipment heat dissipation, current-dependent	P _{vid}	W	0.6
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.

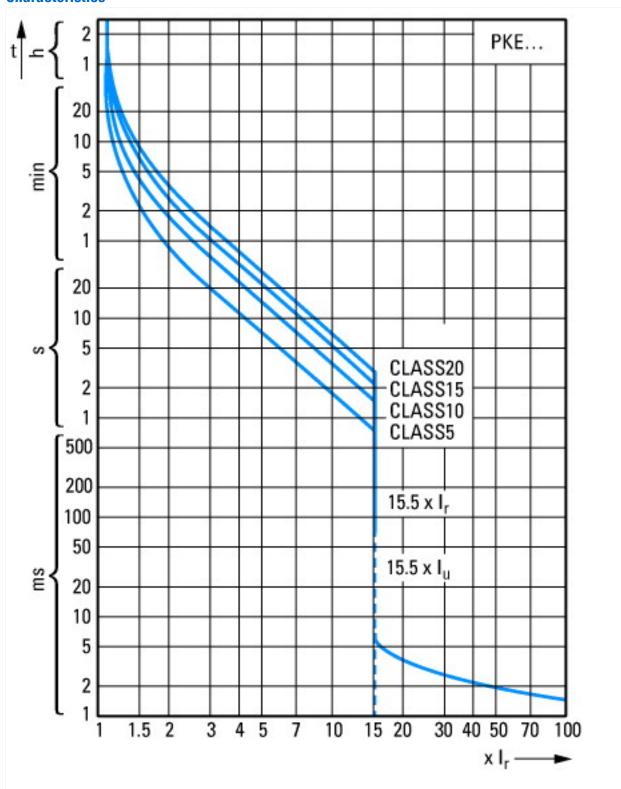
Technical data ETIM 6.0

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 (ecl@ss8.1-27-37-04-10 [AKF008010]) 1 - 4 Overload release current setting Initial value of the undelayed short-circuit release - setting range Α 15.5 End value adjustment range undelayed short-circuit release Α 62 Rated permanent current lu Α 4 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 $ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN03402004Z_DE_EN.pdf$

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

http://www.moeller.net/binary/ver_techpapers/ver953en.pdf

Busbar Component Adapters for modern Industrial control panels http://www.moeller.net/binary/ver_techpapers/ver960en.pdf