

Part no. Article no.

Catalog No.

Trip block, 3-12A, standard, motor protection

PKE-XTU-12 121725 XTPEXT012B



Delivery program

benvery program							
Product range					Accessories		
Accessories					Trip blocks		
Basic function					Motor protection Motor protection f	or heavy starting duty	
					IE3	/	
Notes						otors with efficiency class IE3. are identified by the logo on thei	r packaging.
Setting range							
Overload releases							
Setting range of overload	l releases		I _r	A	3 - 12		
Overload release, min.			l _r	А	3		
Overload release, max.			Ir	А	12		
Function					With overload rele	ase	
Rated uninterrupted current = ra	ated operational current		l _u = l _e	A	12		
Motor rating							
AC-3							
220 V 230 V			Р	kW	3		
380 V 400 V			P	kW	5.5		
440 V			P	kW	5.5		
500 V			P	kW	5.5		
660 V 690 V			P	kW	7.5		
For use with			1	K V V	PKE12 basic devic	٥	
					PKE32 basic devic		
Connection to SmartWire-DT					No		
Motor output/rated motor curren Motor rating	nt Rated motor current						
AC-3	220 V	380 V		4	40 V	500 V	660 V
	230 V	400 V					690 V
	240 V	415 V					
Р	I	I		I		I.	I
kW 0.75	A 3.2	A -		A	A	A	Α
1.1	3.2 4.6	-		-		-	-
1.5	6.3	3.6		3	.3		-
2.2	8.7	5		4	.6	4	-
3 4	11.5	6.6		6	i	5.3	3.8
4	-	8.5		7	.7	6.8	4.9
5.5	-	11.3		1	0.2	9	6.5
7.5	_	-		-		_	8.8

Technical data

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
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			111/3
Rated operational voltage	Ue	V AC	690
Rated uninterrupted current = rated operational current	$I_u = I_e$	А	12
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)		А	12
Trip blocks			
Temperature compensation		°C	-5 - +40 (to IEC/EN 60947, VDE 0660) -25 - +55 (operating range)
Temperature compensation residual error for T > 40 $^{\circ}$ C			±55 (Arbeitsbereich)
Setting range of overload releases			0.25 - 1 x l _u
short-circuit release			Trip block, fixed: 15.5 x I _r delayed approx. 60 ms
Short-circuit release tolerance			± 20%
Phase-failure sensitivity			yes

Design verification as per IEC/EN 61439

besign vernioution as per reo/en or tos			
Technical data for design verification			
Rated operational current for specified heat dissipation	I _n	A	12
Heat dissipation per pole, current-dependent	P _{vid}	W	0.3
Equipment heat dissipation, current-dependent	P _{vid}	W	0.9
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.

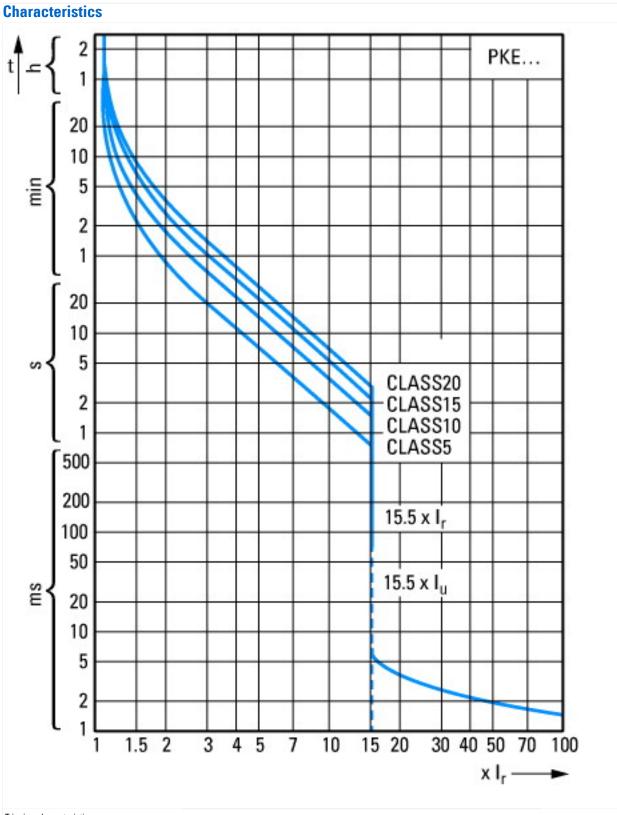
10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
10.10 Temperature rise	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data 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 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]) Overload release current setting А 3 - 12 Initial value of the undelayed short-circuit release - setting range А 46.5 End value adjustment range undelayed short-circuit release А 186 А Rated permanent current lu 12 Number of poles 3 Delayed Short-circuit release function

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



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; overloa monitoring of Ex e motors - Deutsch / Engli		
Motor starters and "Special Purpose Ratin for the North American market	s" 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	