DATASHEET - PKE-XTU-32



Trip block, 8 - 32 A, Motor protection, Connection to SmartWire-DT: no, For use with: PKE32 basic device



Part no.	PKE-XTU-32
Catalog No.	121726
Alternate Catalog	XTPEXT032B
No.	
EL-Nummer	4355185
(Norway)	

Delivery program

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Katar Katar <th< td=""><td>Accessories</td><td></td><td></td><td></td><td></td><td>Trip blocks</td><td></td><td></td></th<>	Accessories					Trip blocks		
Setting range Image: Setting range of overload releases Image: Setting range of overload release Image: Settin	Basic function					Motor protection Motor protection f	or heavy starting duty	
Setting range Image: Setting range of overload releases Image: Setting range of overload release Image: Settin						IE3	/	
Overload releases Image: Section range of overload releases, mix. Image: Section range of overload release, mix. <	Notes					Also suitable for m	otors with efficiency class IE3.	
Image: Set of a constraint of	Setting range							
Image: Part of the set of t	Overload releases							
Image: Part of the set of t	口							
	Setting range of overloa	ad releases		l _r	A	8 - 32		
and the range of the second s	Overload release, min.			l _r	А	8		
And d uninterrupted current = ristel operational current Act-s Part operational current Part operation Part operation	Overload release, max.			l _r	А	32		
Motor rating $AC-3$ PKW7.520V 230 VPPKW5380 V 400 VPPKW15440 VPN151500 VPKW8.51660 V 690 VPKW8.51660 V 690 VPKW91For use withPKW91Connection to SmartWire-DTPKW9Notor output/rated motor current CurrentAC-320 V380 V40 V500 V20 V380 V40 V500 V660 V20 V380 V40 V500 V660 V20 V380 V40 V500 V660 V20 V11111111120 V88 V151488.51488.51519.611.310.18.81519.611.312.18.81519.613.312.18.81526.413.812.18.81519.613.412.18.81519.613.412.18.81519.613.412.18.81519.613.412.623.41624.424.524.52	Function					With overload rele	ase	
AC3PKVS20 V 20 VPKV5.380 V 400 VPKV5.440 VPKV5.500 VPKV16.500 VPKV16.660 V 690 VPKV3.For uswithPKV0.500 VFor uswithFPKV500 VFPKV0.For uswithFPKV0.500 VFFFF600 V 690 VFFFF600 V 690 VFFFF600 V 690 VFFFF600 V 600 VFFFF600 V 600 VFFFF600 V 70 UpUt/rated motor currentFFFF600 VFFFFF700 V600 VFFFF700 V600	Rated uninterrupted current =	rated operational current		$I_u = I_e$	А	32		
20 V 20 V P NV 7.3 30 V 40 V P NV 10.1 10.1 44 V F P NV 10.1 10.1 50 V F P NV 10.1 10.1 10.1 60 V 60 V F P NV 10.1 10.1 10.1 60 V 60 V F P NV 10.1 10.1 10.1 60 V 60 V F P NV 10.1 10.1 10.1 For use with F P NV 10.1 10.1 10.1 For use with F P NV 10.1 10.1 10.1 For use with F F F 10.1 10.1 10.1 For use with F F F 10.1 10.1 10.1 For use with F F F F 10.1 10.1 For use with F F F F 10.1 10.1 10.1 For use with F F F F 10.1 10.1 10.1 F F F F F F 10.1 10.1 10.1 F	Motor rating							
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Add V P KV 53 54 \mathbb{N} </td <td>220 V 230 V</td> <td></td> <td></td> <td>Р</td> <td>kW</td> <td>7.5</td> <td></td> <td></td>	220 V 230 V			Р	kW	7.5		
NoteNoteNoteNoteNote60 V 69 0 VPkW 3.5 5.5 5.5 5.5 $60 V 69 V$ $90 V$ </td <td>380 V 400 V</td> <td></td> <td></td> <td>Р</td> <td>kW</td> <td>15</td> <td></td> <td></td>	380 V 400 V			Р	kW	15		
AC-3 P KW P KE32 basic device Solution to SmartWire-DT PKE32 basic device no Votor output/rated motor current KE32 basic device no AC-3 220 V 380 V 4U V 500 V 660 V 220 V 380 V 4U V 500 V 660 V 230 V 400 V 500 V 660 V 240 V 415 V 500 V 660 V P 1 1 1 P 1 1 1 1 220 V 380 V 400 V 500 V 660 V 230 V 400 V 1 1 1 P 1 1 1 1 1 P 1 1 1 1 1 240 V 415 V - - - P 1 1 1 1 22 87 - - - 34 15 - - - 35 19.6 11.3 10.2 9 - 36 11.3 10.2 9 - - 35 19.6 11.3 13.8 12.1 8.5 <t< td=""><td>440 V</td><td></td><td></td><td>Р</td><td>kW</td><td>15</td><td></td><td></td></t<>	440 V			Р	kW	15		
For use with $\begin{tabular}{ c c c c } \hline For use with \begin{tabular}{ c c c } \hline For use with \begin{tabular}{ c c } \hline For with tabul$	500 V			Р	kW	18.5		
Connection to SmartWire-DTMotor output/rated motor currentVotor rating currentRated motor currentAC-3220 V380 V40 V500 V660 V230 V400 V500 V660 V240 V400 V500 V660 V240 V400 V500 V660 V240 V415 VII690 VPointIIIIPointIIIIPointIIIIVVAAAAA2.28.7PointIIIIPointIIIIPointIIIIPointIIIIPointIIIIPointIIIIPointIIIIPointIIIIPointIIIIPointIIIIPointIIIIPointIIIIPointIIIIPointIIIIPointIIIIPointIIIPointIIIPointIIIPointIIIPoint	660 V 690 V			Ρ	kW	30		
Motor output/rated motor current Rated motor current AC-3 Rated motor current Solv Geo V AC-3 Rated motor current Solv Geo V Geo V AC-3 Rated motor current Solv Geo V Geo V AC-3 Rated motor current Solv Geo V Geo V Qu V Motor current Solv Geo V Geo V Qu V Motor current I Geo V Geo V Qu V Motor current I Geo V Geo V Qu V Motor current I Geo V Geo V Qu V Motor current I Geo V Geo V Qu V Motor current I I Geo V Qu V Motor current I I I Geo V Qu V A A A A A A Qu V A A A A A A Qu V A A A	For use with					PKE32 basic device	e	
Motor rating current Rated motor current AC-3 20 V 380 V 440 V 500 V 660 V 20 V 400 V 500 V 690 V 690 V 20 V 400 V F 690 V 690 V 20 V 415 V F 690 V 690 V 20 V 415 V F 690 V 690 V P 1 1 1 1 1 V A	Connection to SmartWire-DT					no		
220 V 380 V 440 V 500 V 660 V 230 V 400 V 500 V 690 V 240 V 415 V 690 V 240 V 15 V 1 1 P 1 1 1 1 VW A A A A 2.2 8.7 - - - 3.4 11.5 - - - 5.5 19.6 11.3 10.2 9 - 7.5 26.4 15.2 13.8 12.1 8.8 11.1 - 21.7 19.8 17.4 2.6 15.5 - - 2.6 2.4 17 18.5 - 2.3 26.6 23.4 17 18.5 - - 2.3 20.9 20.9	Motor output/rated motor curre Motor rating	Rated motor						
230 V 400 V 690 V 240 V 415 V 1 P I I I VW A A A A VW A A A A VW A A A A VI I I I I VI A A A A VI A	AC-3	220 V	380 V		4	140 V	500 V	660 V
240 V415 VPIIIIIKWAAAAA2.28.7311.5414.88.55.519.611.310.297.526.415.213.812.18.811.1-21.719.817.412.615.5-29.326.623.41718.523.820.92223.8								
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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 $ 20.9$ 20.9 22 $ 23.8$	Р	I	I					
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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	4	14.8	8.5				-	-
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	5.5 7.5	19.6 26.4	11.3		1	10.2 13.8	9 12 1	- 0 0
15 - 29.3 26.6 23.4 17 18.5 - - - 28.9 20.9 22 - - - 23.8	7.5 11	-	10.2 21 7		1	19.8	17.1	0.0 12 ƙ
18.5 28.9 20.9 22 23.8	15	-	29.3		2	26.6	23.4	17
23.8	18.5	-					28.9	20.9
su 32	22	-	-					23.8
	30	-	-		-		-	32

Technical data

General

Standards

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			90°
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			111/3
Rated operational voltage	U _e	V AC	690
Rated uninterrupted current = rated operational current	$I_u = I_e$	А	32
Rated frequency	f	Hz	40 - 60
Max. operating frequency		Ops/h	60
Motor switching capacity			
AC-3 (up to 690V)		А	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 x I _r 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

Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	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 lu	A	32
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

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

