### **DATASHEET - PKE-XTUWCP-36**



Trip block, 15 - 36 A, System protection, Connection to SmartWire-DT: no, For use with: PKE65 basic device



Part no.PKE-XTUWCP-36Catalog No.168796Alternate CatalogXTPEXT036DDNo.EL-NummerO004315140(Norway)

### **Delivery program**

Product range			Accessories
Accessories			Trip blocks
Basic function			System protection Line and cable protection
Setting range			
Overload releases			
Setting range of overload releases	l <sub>r</sub>	A	15 - 36
Overload release, min.	l <sub>r</sub>	А	15
Overload release, max.	l <sub>r</sub>	А	36
short-circuit release	I <sub>rm</sub>	А	75 - 288
Function			with overcurrent protection and short-circuit protective device
Rated uninterrupted current = rated operational current	I <sub>u</sub> = I <sub>e</sub>	А	36
For use with			PKE65 basic device
Connection to SmartWire-DT			no

# Technical data

Climatic profing Ambient temperature Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-78   Ambient temperature RC 40-80   Open C 25 - 455   Brook possibility C 25 - 40   Mounting position V V V   Divice RC 3 required   Device V V V   Device V V V   Terminations V V V   Notactic pather V V V   Attack V V V   Recard inputse withstand voltage Mu Mu Mu   Orwordtage actegory/pollution degree Mu Mu Mu	General			
Ambient tamperature Pamp heat, cyclic, to IEC 60088-2-30   Ambient tamperature Image   Storage Image   Open Image   Decised Image   Munting position Image   Decised Image   Decised Image   Decised Image   Decised Image   Decised Image   Decised Image   Terminations Image   Decised Image   Muture tamperature Image   Image Image   Muture tamperature Image   Decise Image   Image Image   Muture tamperature Image   Image Image   Muture tamperature Image   Image Image <td>Standards</td> <td></td> <td></td> <td>IEC/EN 60947, VDE 0660</td>	Standards			IEC/EN 60947, VDE 0660
Storage   40   80     Open   52   45     Inclosed   6C   52   45     Inclosed   6C   52   40     Intring position   6C   6C <t< td=""><td>Climatic proofing</td><td></td><td></td><td></td></t<>	Climatic proofing			
Open   C   -25 + 55     Enclosed   -25 + 0     Mounting position   C   -25 + 0     Direction of incoming supply   Image: Single Sing	Ambient temperature			
Inclosed   PC   25-40     Munting position   Image: Procession of incoming supply   Image: Procession of incoming supply   Image: Procession of incoming supply     Derection of incoming supply   Image: Procession of incoming supply   Image: Procession of incoming supply   Image: Procession of incoming supply     Derection of incoming supply   Image: Procession of incoming supply   Image: Procession of incoming supply   Image: Procession of incoming supply     Protection against direct contact when actuated from front (EN 50274)   Image: Procession of incoming supply   Image: Procession of incoming supply     Nethanical shock resistance half-sinusoidal shock 100 ms to IEC 60068-277   Image: Procession of incoming supply   Image: Procession of incoming supply     Attude   Image: Procession of incoming supply   Image: Procession of incoming supply   Image: Procession of incoming supply     Attude   Image: Procession of incoming supply   Image: Procession of incoming supply   Image: Procession of incoming supply     Attude   Image: Procession of incoming supply   Image: Procession of incoming supply   Image: Procession of incoming supply     Attude   Image: Procession of incoming supply   Image: Procession of incoming supply   Image: Procession of incoming supply     Attude   Image: Procession of incoming supply   Image:	Storage		°C	- 40 - 80
Mounting position   Image: Processing supply   Image: Processing supply     Direction of incoming supply   Image: Processing supply   Image: Processing supply     Device   Image: Processing supply   Image: Processing supply     Device   Processing supply   Image: Processing supply     Terminations   Processing supply   Image: Processing supply     Protection against direct contact when actuated from front (EN 50274)   Image: Processing supply   Image: Processing supply     Mechanical shock resistance half-sinusoidal shock 10 ms to IEC 60068-2-277   Image: Processing supply   Image: Processing supply     Matude   Image: Processing supply   Image: Processing supply   Image: Processing supply     Mechanical shock resistance half-sinusoidal shock 10 ms to IEC 60068-2-277   Image: Processing supply   Image: Processing supply     Matude   Image: Processing supply   Image: Processing supply   Image: Processing supply   Image: Processing supply     Matude   Image: Processing supply   Image: Processing supply   Image: Processing supply   Image: Processing supply     Matude   Image: Processing supply   Image: Processing supply   Image: Processing supply   Image: Processing supply     Matude   Image: Processing supply   <	Open		°C	-25 - +55
Direction of incoming supply   حال الحال الح     Direction of incoming supply   حال الحال ا حال الحال ا	Enclosed		°C	- 25 - 40
Degree of protection   Image: Base of protection     Device   Image: Base of protection     Terminations   Image: Base of protection against direct contact when actuated from front (EN 50274)   Image: Base of protection against direct contact when actuated from front (EN 50274)     Mechanical shock resistance half-sinusoidal shock 10 ms to IEC 60068-2-27   Image: Base of protection   Image: Base of protection     Main conducting paths   Image: Base of protection   Image: Base of protection   Image: Base of protection     Rated impulse withstand voltage   Image: Base of protection   Image: Base of protection   Image: Base of protection     Overvoltage category/pollution degree   Image: Base of protection   Image: Base of protection   Image: Base of protection	Mounting position			90°
Device IP20   Terminations IP00   Protection against direct contact when actuated from front (EN 50274) IP00   Mechanical shock resistance half-sinusoidal shock 10 ms to IEC 60068-2-27 g   Atitude g   Device m   Main conducting paths Max. 2000   Rated impulse withstand voltage Vimp VAC   Overvoltage category/pollution degree III/3	Direction of incoming supply			as required
Terminations Protection against direct contact when actuated from front (EN 50274) Pool   Mechanical shock resistance half-sinusoidal shock 10 ms to IEC 60068-2-27 g 25   Altitude m Max. 2000   Main conducting paths Vimp VAC 6000   Rated impulse withstand voltage Vimp VAC 6000   Overvoltage category/pollution degree III/3 III/3	Degree of protection			
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 Ump V AC 6000   Nervoltage category/pollution degree III/3 III/3	Device			IP20
Mechanical shock resistance half-sinusoidal shock 10 ms to IEC 60068-2-27 g 25   Altitude m Max. 2000   Main conducting paths Uimp V AC 6000   Overvoltage category/pollution degree III/3 III/3	Terminations			IP00
Altitude m Max. 2000   Main conducting paths Uimp V AC 6000   Rated impulse withstand voltage Vimp V AC 6000   Overvoltage category/pollution degree III/3 III/3	Protection against direct contact when actuated from front (EN 50274)			Finger and back-of-hand proof
Main conducting paths VAC 6000   Rated impulse withstand voltage Vac 6000   Overvoltage category/pollution degree III/3	Mechanical shock resistance half-sinusoidal shock 10 ms to IEC 60068-2-27		g	25
Rated impulse withstand voltage Uimp V AC 6000   Overvoltage category/pollution degree III/3	Altitude		m	Max. 2000
Overvoltage category/pollution degree III/3	Main conducting paths			
	Rated impulse withstand voltage	U <sub>imp</sub>	V AC	6000
Rated operational voltage Ue VAC 690	Overvoltage category/pollution degree			III/3
	Rated operational voltage	Ue	V AC	690

Rated uninterrupted current = rated operational current	$I_u = I_e$	А	36
Rated frequency	f	Hz	40 - 60
Max. operating frequency		Ops/h	60
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>	0.42 - 1
short-circuit release			Trip block, adjustable: 5 - 8 x I <sub>r</sub> delayed approx. 60 ms
Short-circuit release tolerance			± 20%
Phase-failure sensitivity			no (with PKE-XTU(A)CP)

# Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	36
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	1.7
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	4.9
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.
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.

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)

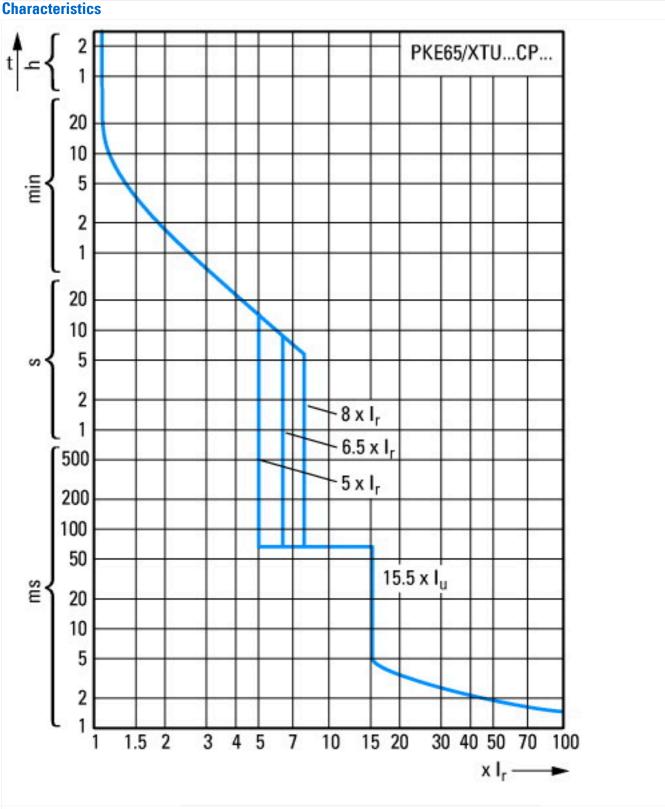
Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Releasing block for circuit breakers (ecl@ss10.0.1-27-37-04-10 [AKF008013])

A	15 - 36 75
	75
A	288
А	36
	Self powered
V	0 - 0
V	0 - 0
V	0 - 0
	3
	Delayed
	No
	Electronic release
	V V

No

#### Approvals

Specially designed for North America



#### Tripping characteristics

#### **Assets (links)**

Declaration of CE Conformity 00002850 Instruction Leaflets IL034013ZU2018\_03 Manuals

MN03402004Z\_DE\_EN (English)

## Additional product information (links)

IL034013ZU Trip block for solid-state motor-protective circuit-breaker PKE65

IL034013ZU Trip block for solid-state motorprotective circuit-breaker PKE65 ftp://ftp.moeller.net/DOCUMENTATION/AWA\_INSTRUCTIONS/IL034013ZU2018\_03.pdf

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.eaton.eu/ecm/groups/public/@pub/@europe/@electrical/documents/content/pct_3258146.pdf
Busbar Component Adapters for modern Industrial control panels	http://www.moeller.net/binary/ver_techpapers/ver960en.pdf