DATASHEET - PKE-XTUWACP-36

Trip block, 15 - 36 A, System protection, Connection to SmartWire-DT: yes,
For use with: PKE65 basic device

Powering Business Worldwide

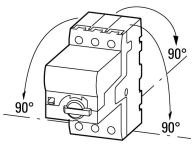
Part no.	**PKE-XTUWACP-36**
Catalog No.	**168797**
Alternate Catalog No.	**XTPEXTA036DD**
EL-Nummer (Norway)	**0004315141**

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	I_r	A	15 - 36
Overload release, min.	I_r	A	15
Overload release, max.	I_r	A	36
short-circuit release	I_{rm}	A	75 - 288
Function			with overcurrent protection and short-circuit protective device
Rated uninterrupted current = rated operational current	$I_u = I_e$	A	36
For use with			PKE65 basic device
Connection to SmartWire-DT			yes in conjunction with PKE-SWD-SP SmartWire DT PKE module

Technical data

General

Standards			IEC/EN 60947, VDE 0660
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			
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			III/3

Rated operational voltage	U_e	V AC	690
Rated uninterrupted current = rated operational current	$I_u = I_e$	A	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_u	0.42 - 1
short-circuit release			Trip block, adjustable: 5 - 8 x I_r 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	I_n	A	36
Heat dissipation per pole, current-dependent	P_{vid}	W	1.7
Equipment heat dissipation, current-dependent	P_{vid}	W	4.9
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.

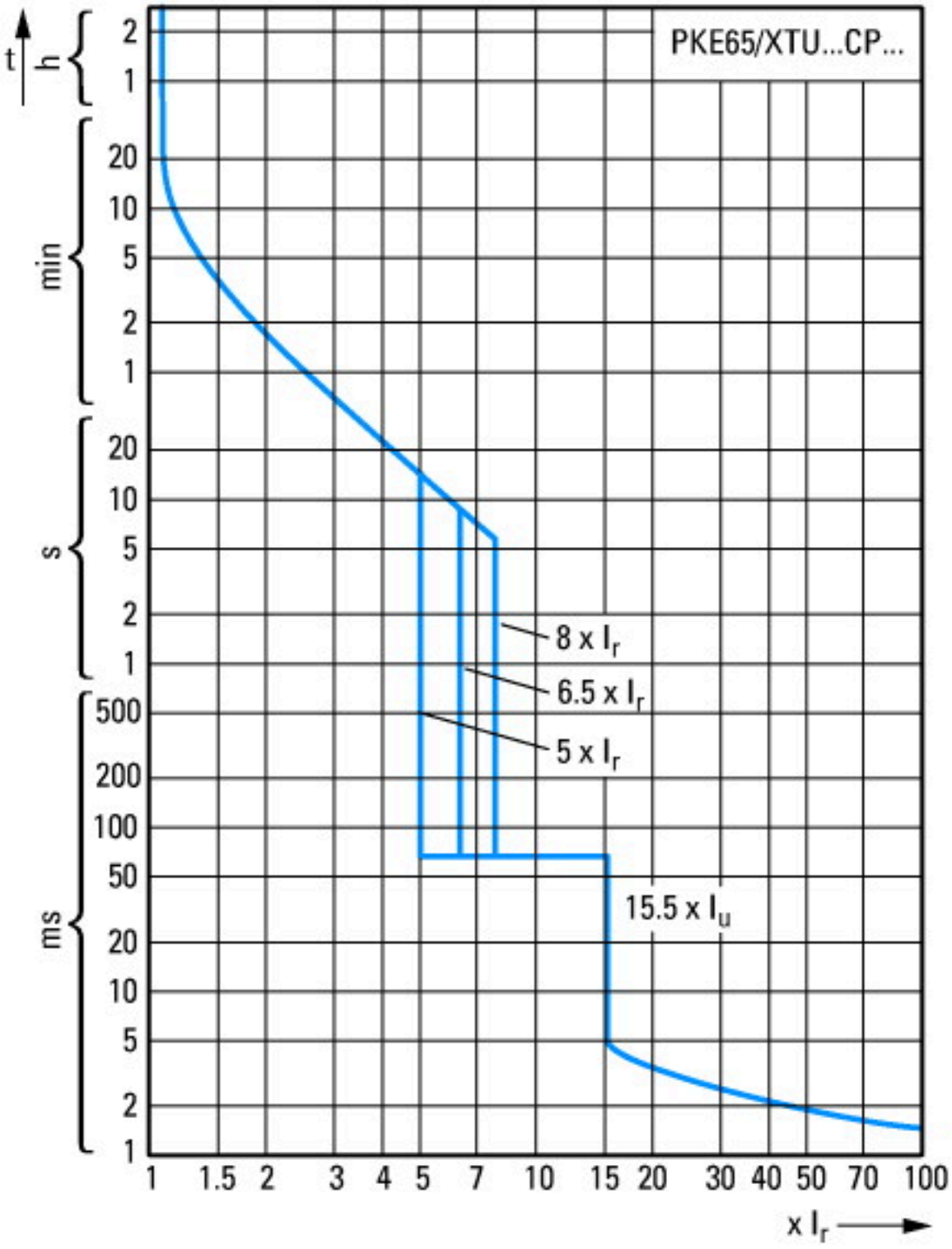
Technical data ETIM 7.0

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	15 - 36
Initial value of the undelayed short-circuit release - setting range		A	75
End value adjustment range undelayed short-circuit release		A	288
Rated permanent current Iu		A	36
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

Specially designed for North America			No

Characteristics



Tripping characteristics

Assets (links)

Declaration of CE Conformity

00002852

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 motor-protective 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