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Worldwide English



PKE-XTUCP-36 - Trip block, 15 - 36 A, System protection, Connection to SmartWire-DT: no, For use with: PKE32 basic device



153164 PKE-XTUCP-36

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## 153164 PKE-XTUCP-36

Trip block, 15 - 36 A, System protection, Connection to SmartWire-DT: no, For use with: PKE32 basic device

Alternate Catalog No.

XTPEXT036BD

EL-Nummer (Norway)

4315138

Electronic control option for system and cable protection according to IEC60947-2 for basic device PKE32, electronic wide-range overload protection (2.4: 1) adjustable short-circuit release. Mounting without tools with PKE basic device.

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### Delivery program

Product range

Accessories

Accessories

Trip blocks

Basic function

System protection

Line and cable protection

**Setting range**Overload releases [I<sub>r</sub>] Setting range of overload releases [I<sub>r</sub>]

15 - 36 A

Overload releases [I<sub>r</sub>] Overload release, min. [I<sub>r</sub>]

15 A

Overload releases [I<sub>r</sub>] Overload release, max. [I<sub>r</sub>]

36 A

short-circuit release [I<sub>m</sub>]

75 - 288 A

Function

with overcurrent protection and short-circuit protective device

Rated uninterrupted current = rated operational current [I<sub>u</sub> = I<sub>e</sub>]

36 A

For use with

PKE32 basic device

Connection to SmartWire-DT

no

## 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 temperatureStorage

- 40 - 80 °C

Ambient temperatureOpen

-25 - +55 °C

Ambient temperatureEnclosed

- 25 - 40 °C

Mounting position



Direction of incoming supply

as required

Degree of protectionDevice

IP20

Degree of protectionTerminations

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

25 g

Altitude

Max. 2000 m

Main conducting paths

Rated impulse withstand voltage [ $U_{imp}$ ]

6000 V AC

Overvoltage category/pollution degree

III/3

Rated operational voltage [ $U_e$ ]

690 V AC

Rated uninterrupted current = rated operational current [ $I_u = I_e$ ]

36 A

Rated frequency [f]

40 - 60 Hz

Max. operating frequency

60 Ops/h

AC-4 cycle operationMinimum current flow times

500 (Class 5)

700 (Class 10)

900 (Class 15)

1000 (Class 20) ms

AC-4 cycle operationMinimum cut-out periods

500 ms

AC-4 cycle operationNote

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. ms

Trip blocks

Temperature compensationto IEC/EN 60947, VDE 0660

- 5...40 °C

Temperature compensationOperating range

- 25...55 °C

Setting range of overload releases

0.42 - 1 x  $I_u$

short-circuit release

Trip block, adjustable: 5 - 8 x  $I_u$

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 [ $I_h$ ]

36 A

Heat dissipation per pole, current-dependent [ $P_{vid}$ ]

1.7 W

Equipment heat dissipation, current-dependent [ $P_{vid}$ ]

4.9 W

Static heat dissipation, non-current-dependent [ $P_s$ ]

0 W

Heat dissipation capacity [ $P_{diss}$ ]

0 W

Operating ambient temperature min.

-25 °C

Operating ambient temperature max.

+55 °C

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 Strength of materials and parts 10.2.3.1 Verification of thermal stability of enclosures

Meets the product standard's requirements.

10.2 Strength of materials and parts 10.2.3.2 Verification of resistance of insulating materials to normal heat

Meets the product standard's requirements.

10.2 Strength of materials and parts 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 Strength of materials and parts 10.2.4 Resistance to ultra-violet (UV) radiation

Meets the product standard's requirements.

10.2 Strength of materials and parts 10.2.5 Lifting

Does not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts 10.2.6 Mechanical impact

Does not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts 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 Insulation properties 10.9.3 Impulse withstand voltage

Is the panel builder's responsibility.

10.9 Insulation properties 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

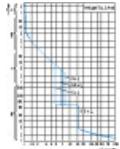
15 - 36 A  
Initial value of the undelayed short-circuit release - setting range  
75 A  
End value adjustment range undelayed short-circuit release  
288 A  
Rated permanent current  $I_{\text{u}}$   
36 A  
Voltage type for actuating  
Self powered  
Rated control supply voltage  $U_s$  at AC 50Hz  
0 - 0 V  
Rated control supply voltage  $U_s$  at AC 60Hz  
0 - 0 V  
Rated control supply voltage  $U_s$  at DC  
0 - 0 V  
Number of poles  
3  
Short-circuit release function  
Delayed  
With ground fault protection function  
Nb  
Type of motor protection  
Electronic release

## Approvals

Specially designed for North America  
Nb

## Characteristics

Characteristic curve



Tripping characteristics

## CAD data

- [Product-specific CAD data](#)  
(Web)
- [3D Preview](#)  
(Web)

## DWG files

- [DA-CD-pke\\_xtu12](#)  
File  
(Web)

## edz files

- [DA-OE-ETN.PKE-XTUCP-36](#)  
File  
(Web)

## Step files

- [DA-CS-pke\\_xtu12](#)  
File  
(Web)

## Additional product information

- [Motor starters and "Special Purpose Ratings" for the North American market](#)  
(PDF)
- [Busbar Component Adapters for modern Industrial control panels](#)

## Product photo

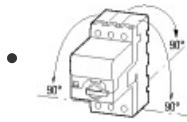


[1210PC-278](#)

Photo

Trip block

## 3D drawing



[1210DRW-287](#)

Line drawing

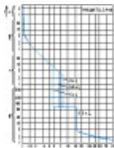
Mounting position



[1210DRW-523](#)

Line drawing

## Characteristic curve



[1210DIA-68](#)

Coordinate visualization

## Instruction Leaflet

- [Trip block for solid-state motor-protective circuit-breaker PKE65 \(IL034013ZU\)](#)  
Asset  
former IL03402023Z  
(PDF, 08/2020, multilingual)

## Manual

- [Motor-protective circuit-breaker PKE12, PKE32 and PKE65, Overload monitoring of Ex e motors \(MN03402004Z\\_DE\\_EN\)](#)  
Asset  
(PDF, 05/2021, en, de)

## Declaration of Conformity

## EU

- [PKE65 \(DA-DC-00003630\)](#)  
Asset  
(PDF)
- [PKE12 \(DA-DC-00004073\)](#)  
Asset  
(PDF)
- [PKE32 \(DA-DC-00004074\)](#)  
Asset  
(PDF)

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