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Powering Business Worldwide

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

168796 PKE-XTUWCP-36

**Overview Specifications Resources**

# 168796 PKE-XTUWCP-36

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

| | |
|---|---|
| Alternate Catalog No. | XTPEXT036DD |
| EL-Nummer (Norway) | 4315140 |

Electronic control unit for system protection as per IEC 60947-2, mounting without tools with PKE65 basic device, adjustable electronic wide-range overload protection (2, 4 : 1), adjustable short-circuit releases



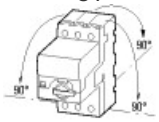
## Delivery program

Product range
Accessories
Accessories
Trip blocks
Basic function
System protection
Line and cable protection
**Setting range**
Overload releases [$I_r$] Setting range of overload releases [$I_r$]
15 - 36 A
Overload releases [$I_r$] Overload release, min. [$I_r$]
15 A
Overload releases [$I_r$] Overload release, max. [$I_r$]
36 A
short-circuit release [$I_{rm}$]
75 - 288 A
Function
with overcurrent protection and short-circuit protective device
Rated uninterrupted current = rated operational current [$I_u = I_e$]
36 A
For use with

PKE65 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 $I_r$
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 [$I_n$]
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 [$P_{vs}$]
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 parts10.2.2 Corrosion resistance
Meets the product standard's requirements.
10.2 Strength of materials and parts10.2.3.1 Verification of thermal stability of enclosures
Meets the product standard's requirements.
10.2 Strength of materials and parts10.2.3.2 Verification of resistance of insulating materials to normal heat
Meets the product standard's requirements.
10.2 Strength of materials and parts10.2.3.3 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 parts10.2.4 Resistance to ultra-violet (UV) radiation
Meets the product standard's requirements.
10.2 Strength of materials and parts10.2.5 Lifting
Does not apply, since the entire switchgear needs to be evaluated.
10.2 Strength of materials and parts10.2.6 Mechanical impact
Does not apply, since the entire switchgear needs to be evaluated.
10.2 Strength of materials and parts10.2.7 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 properties10.9.2 Power-frequency electric strength
Is the panel builder's responsibility.
10.9 Insulation properties10.9.3 Impulse withstand voltage
Is the panel builder's responsibility.
10.9 Insulation properties10.9.4 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)

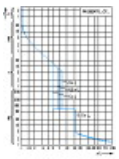
Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Releasing block for circuit breakers (ecl@ss10.0.1-27-37-04-10 [AKF008013])
Overload release current setting
15 - 36 A
Initial value of the undelayed short-circuit release - setting range
75 A
End value adjustment range undelayed short-circuit release
288 A
Rated permanent current Iu
36 A
Voltage type for actuating
Self powered
Rated control supply voltage Us at AC 50HZ
0 - 0 V
Rated control supply voltage Us at AC 60HZ
0 - 0 V
Rated control supply voltage Us at DC
0 - 0 V
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

Characteristic curve



Tripping characteristics

# CAD data

- Product-specific CAD data
  (Web)
- 3D Preview
  (Web)

## DWG files

- DA-CD-pke_xtua_65
  File
  (Web)

## edz files

- DA-CE-ETN.PKE-XTUWCP-36
  File
  (Web)

## Step files

- DA-CS-pke_xtua_65
  File
  (Web)

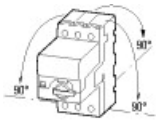
# Additional product information

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

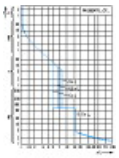
# Product photo

- 
  1210PIC-398
  Photo

# 3D drawing

- 
  1210DRW-287
  Line drawing
  Mounting position
- 
  1210DRW-523
  Line drawing

# Characteristic curve

- 
  1210DIA-69
  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)
- MSC-DE Frame size 1 (DA-DC-00003638)
  Asset
  (PDF)

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