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- Terms and conditions
- Tools
- Training and education
- Warranty and returns

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PKE electronic motor protection circuit breaker
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Eaton Moeller® series PKE Trip block, 16 - 65 A, Motor protection, Connection to SmartWire-DT: no, For use with: PKE65 basic device

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- General specifications

- Product specifications

General specifications

Product Name
Eaton Moeller® series PKE Trip block
Catalog Number
138259
Model Code
PKE-XTU-65
EAN
4015081350391
Product Length/Depth
84.4 mm
Product Height
69.9 mm
Product Width
55 mm
Product Weight
0.238 kg
Certifications
UL
VDE 0660
CSA Class No.: 3211-05
IEC/EN 60947
IEC/EN 60947-4-1
UL Category Control No.: NLRV
CSA-C22.2 No. 14-10
UL 508
UL File No.: E36332
CSA
CSA File No.: 165628
CE

Product specifications

Rated operational current for specified heat dissipation (In)
65 A
10.11 Short-circuit rating
Is the panel builder's responsibility. The specifications for the switchgear must be observed.
Ambient operating temperature (enclosed) - min
-25 °C
Rated control supply voltage (Us) at AC, 50 Hz - min
0 V
10.4 Clearances and creepage distances
Meets the product standard's requirements.
10.12 Electromagnetic compatibility
Is the panel builder's responsibility. The specifications for the switchgear must be observed.
Cut-out periods - min
≤ 500 ms, main conducting paths, AC-4 cycle operation
10.2.5 Lifting
Does not apply, since the entire switchgear needs to be evaluated.
Ambient operating temperature (enclosed) - max
40 °C
10.2.3.1 Verification of thermal stability of enclosures
Meets the product standard's requirements.
Ambient storage temperature - min
-40 °C
Rated control supply voltage (Us) at DC - min
0 V
Current flow times - min
500 (Class 5) AC-4 cycle operation, Main conducting paths
900 (Class 15) AC-4 cycle operation, Main conducting paths
1000 (Class 20) AC-4 cycle operation, Main conducting paths

Note: 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.
700 (Class 10) AC-4 cycle operation, Main conducting paths
Rated control supply voltage (Us) at AC, 50 Hz - max
0 V
10.8 Connections for external conductors
Is the panel builder's responsibility.
Protection
Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)
Ambient operating temperature - max
55 °C
Climatic proofing
Damp heat, constant, to IEC 60068-2-78
Damp heat, cyclic, to IEC 60068-2-30
Features
Phase-failure sensitivity (according to IEC/EN 60947-4-1, VDE 0660 Part 102)
Connection to SmartWire-DT
No
Static heat dissipation, non-current-dependent Pvs
0 W
Rated control supply voltage (Us) at DC - max
0 V
10.9.3 Impulse withstand voltage
Is the panel builder's responsibility.
Number of poles
Three-pole
Ambient operating temperature - min
-25 °C
10.6 Incorporation of switching devices and components
Does not apply, since the entire switchgear needs to be evaluated.
10.5 Protection against electric shock
Does not apply, since the entire switchgear needs to be evaluated.
Used with
Motor-protective circuit breaker
Rated uninterrupted current (Iu)
65 A
Short-circuit release
Delayed approx. 60 ms, Trip blocks
Trip block fixed 15.5 x Ir
± 20% tolerance, Trip blocks
10.13 Mechanical function
The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
Switching capacity at AC-3 (up to 690 V)
65 A
10.2.6 Mechanical impact
Does not apply, since the entire switchgear needs to be evaluated.
10.9.4 Testing of enclosures made of insulating material
Is the panel builder's responsibility.
10.3 Degree of protection of assemblies
Does not apply, since the entire switchgear needs to be evaluated.
Heat dissipation per pole, current-dependent Pvid
3.1 W
Operating frequency
60 Operations/h
Voltage type
Self powered
Short-circuit release function
Delayed
Product category
Accessories
Overload release current setting - min
16 A
Equipment heat dissipation, current-dependent Pvid
9.3 W
Heat dissipation capacity Pdiss

0 W
Rated operational current (Ie)
65 A
Temperature compensation
-5 - 40 °C to IEC/EN 60947, VDE 0660
-25 - 55 °C, Operating range
Rated frequency - min
50 Hz
10.2.3.2 Verification of resistance of insulating materials to normal heat
Meets the product standard's requirements.
10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects
Meets the product standard's requirements.
Overload release current setting - max
65 A
10.9.2 Power-frequency electric strength
Is the panel builder's responsibility.
Degree of protection
Device: IP20
Terminals: IP00
Overvoltage category
III
Rated frequency - max
60 Hz
Ambient storage temperature - max
80 °C
Rated operational voltage (Ue) at AC - max
690 V
Undelayed short-circuit release - min
192 A
Pollution degree
3
Rated control supply voltage (Us) at AC, 60 Hz - min
0 V
10.7 Internal electrical circuits and connections
Is the panel builder's responsibility.
Rated impulse withstand voltage (Uimp)
6000 V AC
10.10 Temperature rise
The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
Functions
Motor protection for heavy starting duty
Overload release
Motor protection
Protection type
Electronic release
10.2.2 Corrosion resistance
Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation
Meets the product standard's requirements.
10.2.7 Inscriptions
Meets the product standard's requirements.
Rated control supply voltage (Us) at AC, 60 Hz - max
0 V
Undelayed short-circuit release - max
780 A
Shock resistance
15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms
Altitude
Max. 2000 m
Serial Number Verified :
Authenticated: ✓
The product is verified as being authentic; however, this does not guarantee the condition or fit for purpose of the product.

Brochures

- Motor Starters in System xStart - brochure
- Motor-Protective Circuit-Breaker PKE - brochure
- PKE – Communication module Modbus RTU

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Catalogs

- Product Range Catalog Switching and protecting motors

Certification reports

- DA-DC-00004244.pdf
- DA-DC-00004544.pdf
- DA-DC-00004108.pdf
- DA-DC-00004545.pdf

Characteristic curve

- eaton-manual-motor-starters-pke65-characteristic-curve-005.eps

Declarations of conformity

- DA-DC-00004944.pdf
- DA-DC-00004935.pdf
- DA-DC-00004945.pdf
- DA-DC-00004950.pdf

Drawings

- eaton-manual-motor-starters-mounting-3d-drawing.eps
- eaton-manual-motor-starters-pke-trip-block-3d-drawing.eps

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eCAD model

- ETN.PKE-XTU-65

Installation instructions

- IL034013ZU

Installation videos

- WIN-WIN with push-in technology
- Video Motor Protective Circuit Breaker PKE

Manuals and user guides

- MN03402004Z_DE_EN

mCAD model

- DA-CD-pke_xtu65
- DA-CS-pke_xtu65

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