Specifications

Eaton 121729

Catalog Number: 121729

Eaton Moeller® series PKE Trip block, 3 - 12 A, Motor protection, Connection to SmartWire-DT: yes, For use with: PKE12 basic device, PKE32 basic device



General specifications

Product Name
Eaton Moeller® series PKE Trip block

Catalog Number
121729

EAN
4015081195398

Product Length/Depth
41.6 mm

Product Height
64.2 mm

Product Width
45 mm

Product Weight
0.086 kg

Certifications
CE
CSA-C22.2 No. 14-10
VDE 0660
CSA
IEC/EN 60947-4-1
UL
UL Category Control No.: NLRV
IEC/EN 60947
UL File No.: E36332
CSA Class No.: 3211-05
UL 508
CSA File No.: 165628

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Catalog Notes
This is a product for Environment A (Industrial). In environment B (household) this device may cause undesirable radio interference. In this case the user may be obliged to take appropriate measures.

Features & Functions

Features

Phase-failure sensitivity (according to IEC/EN 60947-4-1, VDE 0660 Part 102)

Functions

Motor protection for heavy starting duty

Motor protection

Overload release

Number of poles

Three-pole

Number of poles

Three-pole

General

Current flow times - min

Note: Going below the minimum current flow time can cause overheating of the load (motor).

700 (Class 10) AC-4 cycle operation, Main conducting paths

For all combinations with an SWD activation, you need not adhere to the minimum current flow times and minimum cut-out periods.

500 (Class 5) AC-4 cycle operation, Main conducting paths

1000 (Class 20) AC-4 cycle operation, Main conducting paths

900 (Class 15) AC-4 cycle operation, Main conducting paths

Cut-out periods - min

≤ 500 ms, main conducting paths, AC-4 cycle operation

Degree of protection

Terminals: IP00

Device: IP20

Operating frequency

60 Operations/h

Overload release current setting - min

3 A

Overload release current setting - max

12 A

Overvoltage category

III

Pollution degree

3

Product category

Accessories

Protection

Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)

Rated impulse withstand voltage (Uimp)

6000 V AC

Temperature compensation

-25 - 55 °C, Operating range

-5 - 40 °C to IEC/EN 60947, VDE 0660

Voltage type

Self powered

Ambient conditions, mechanical

Shock resistance

25 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms

Climatic environmental conditions

Ambient operating temperature - min

-25 °C

Ambient operating temperature - max

55 °C

Ambient operating temperature (enclosed) - min

25 °C

Ambient operating temperature (enclosed) - max

40 °C

Ambient storage temperature - min

40 °C

Ambient storage temperature - max

80 °C

Climatic proofing

Damp heat, cyclic, to IEC 60068-2-30

Damp heat, constant, to IEC 60068-2-78

Electrical rating

Rated frequency - min

50 Hz

Rated frequency - max

60 Hz

Rated operational current (Ie)

12 A

Rated operational voltage (Ue) at AC - max

690 V

Rated uninterrupted current (Iu)

12 A

Supply voltage at AC, 50 Hz - min

690 V

Supply voltage at AC, 50 Hz - max

690 V

Short-circuit rating

Short-circuit release

Trip block fixed 15.5 x Ir

± 20% tolerance, Trip blocks

Delayed approx. 60 ms, Trip blocks

Switching capacity

Switching capacity at AC-3 (up to 690 V)

12 A

Magnet system

Rated control supply voltage (Us) at AC, 50 Hz - min

0 V

Rated control supply voltage (Us) at AC, 50 Hz - max

0 V

Rated control supply voltage (Us) at AC, 60 Hz - min

0 V

Rated control supply voltage (Us) at AC, 60 Hz - max

0 V

Rated control supply voltage (Us) at DC - min

0 V

Rated control supply voltage (Us) at DC - max

0 V

Communication

Connection to SmartWire-DT

In conjunction with PKE-SWD-SP SmartWire DT PKE module

In conjunction with PKE-SWD-32 SmartWire DT PKE module

Yes

Contacts

Number of auxiliary contacts (change-over contacts)

0

Number of auxiliary contacts (normally closed contacts)

0

Number of auxiliary contacts (normally open contacts)

0

Design verification

Equipment heat dissipation, current-dependent Pvid

0.9 W

Heat dissipation capacity Pdiss

0 W

Heat dissipation per pole, current-dependent Pvid

0.3 W

Rated operational current for specified heat dissipation (In)

12 A

Static heat dissipation, non-current-dependent Pvs

0 W

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 Resist. of insul. mat. to abnormal heat/fire by internal elect. 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.

10.9.2 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.

Resources

Brochures

eaton-motor-starters-system-xstart-brochure-br03407001en-en-us.pdf

eaton-motor-protective-circuit-breaker-pke-and-communication-modul-pke-brochure-w12107613en-en-us.pdf

Catalogs

Product Range Catalog Switching and protecting motors

eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf

Characteristic curve

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

Declarations of conformity

DA-DC-00005002.pdf

DA-DC-00005037.pdf

DA-DC-00004944.pdf

DA-DC-00004244.pdf

DA-DC-00004950.pdf

DA-DC-00004969.pdf

DA-DC-00005031.pdf

DA-DC-00004544.pdf

DA-DC-00004545.pdf

DA-DC-00004945.pdf

Drawings

eaton-general-ie-ready-dilm-contactor-standards.eps

eaton-manual-motor-starters-mounting-3d-drawing.eps

eaton-manual-motor-starters-pke-trip-block-3d-drawing-002.eps

eCAD model

ETN.121729.edz

Installation instructions

eaton-trip-block-pke-xtu-for-pke12-pke32-il034011zu.pdf

Installation videos

Video Motor Protective Circuit Breaker PKE

WIN-WIN with push-in technology

Manuals and user guides

eaton-motor-protection-pke12-32-65-mn03402004z-de-de-en-us.pdf

mCAD model

DA-CS-pke_xtu12

DA-CD-pke_xtu12

Sales notes

eaton-pke-modbus-rtu-modul-flyer-fl034008en-en-us.pdf

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