ZEB32-5/KK - Overload relay, Separate mounting, Earth-fault protection: none, Ir= 1 - 5 A, 1 N/O, 1 N/C

136495 ZEB32-5/KK

Overview Specifications Resources

136495 ZEB32-5/KK

Overload relay, Separate mounting, Earth-fault protection: none, Ir= 1 - 5 A, 1 N/O, 1 N/C

Alternate Catalog No.	XTOE005CCSS
EL-Nummer (Norway)	4137364

Overload relay, Product range: Electronic overload relays ZEB, Phase-failure sensitivity: IEC/EN 60947, VDE 0660 Part 102, Description: Test/off button, Reset pushbutton, Manual/auto reset selectable, Protection with heavy starting duty (Class 10A-30), Mounting type: Separate mounting, Auxiliary contacts N/O = Normally open: 1 N/O, Auxiliary contacts N/C = Normally closed: 1 N/C, For use with: DILM17, DILM25, DILM32, DILM38, DIULM17, DIULM25, DIULM32, SDAINLM30, SDAINLM45, SDAINLM55, Standards: IEC/EN 60947, VDE 0660, UL, CSA, Degree of Protection: IP20

- Delivery program
- Technical data
- Design verification as per IEC/EN 61439
- Technical data ETIM 7.0
- Approvals
- Characteristics
- Dimensions

Delivery program

Product range
Electronic overload relays ZEB
Phase-failure sensitivity
IEC/EN 60947, VDE 0660 Part 102
Description
Test/off button
Reset pushbutton
Manual/auto reset selectable
Protection with heavy starting duty (Class 10A-30)
Mounting type
Separate mounting
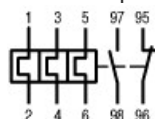Earth-fault protection
Earth-fault protection
none
Setting range
Overload releases ⊏⊐ [I$_r$]

1 - 5 A
Contact sequence

Auxiliary contacts
N/O = Normally open

1 N/O
N/C = Normally closed
1 N/C
For use with
DILM17
DILM25
DILM32
DILM38
DIULM17
DIULM25
DIULM32
SDAINLM30
SDAINLM45
SDAINLM55
Conformity, Approval
Explosion protection (according to ATEX 94/9/EC)
II(2)GD [Ex d] [Ex e] [Ex tb]
EC-prototype test certification
SIRA 13 ATEX 9348X

Technical data

General
Standards
IEC/EN 60947, VDE 0660, UL, CSA
Climatic proofing
Damp heat, constant, to IEC 60068-2-78
Damp heat, cyclic, to IEC 60068-2-30
Ambient temperatureOpen
-25 - +65 °C
Ambient temperatureAmbient temperature open max.
65 °C
Ambient temperatureEnclosedAmbient temperature enclosed max.
65 °C
Mechanical shock resistance
15
Shock duration 10 ms
according to IEC 60068-2-27 g
Degree of Protection
IP20
Protection against direct contact when actuated from front (EN 50274)
Finger and back-of-hand proof
Altitude
Max. 2000 m
Main conducting paths
Rated impulse withstand voltage [U_{imp}]
6000 V AC
Overvoltage category/pollution degree
III/3
Rated insulation voltage [U_i]
690 V AC
Rated operational voltage [U_e]
690 V AC
Rated frequency [f]
50/60 Hz
Safe isolation to EN 61140Between auxiliary contacts and main contacts
600 V AC
Safe isolation to EN 61140Between main circuits
600 V AC
Terminal capacitiesSolid
1 x 1.5 - 16 mm²
Terminal capacitiesSolid or stranded
1 x 12 - 10 AWG
Stripping length
13 mm
Auxiliary and control circuits
Rated impulse withstand voltage [U_{imp}]
6000 V
Overvoltage category/pollution degree

Terminal capacitiesSolid

$2 \times (0.75 - 4) \text{ mm}^2$

Terminal capacitiesFlexible with ferrule

$2 \times (0.75 - 2.5) \text{ mm}^2$

Terminal capacitiesSolid or stranded

$2 \times (18 - 12) \text{ AWG}$

Terminal screw

M3.5

Tightening torque

0.8 - 1.2 Nm

Tightening torque

7 lb-in

Stripping length

8 mm

ToolsPozidriv screwdriver

2 Size

ToolsStandard screwdriver

$1 \times 6 \text{ mm}$

Rated insulation voltage [U_i]

500 V AC

Rated operational voltage [U_e]

500 V AC

Safe isolation to EN 61140between the auxiliary contacts

240 V AC

Conventional thermal current [I_{th}]

5 A

Rated operational current [I_e]AC-15Make contact120 V [I_e]

1.5 A

Rated operational current [I_e]AC-15Make contact220 V 230 V 240 V [I_e]

1.5 A

Rated operational current [I_e]AC-15Make contact380 V 400 V 415 V [I_e]

0.5 A

Rated operational current [I_e]AC-15Make contact500 V [I_e]

0.5 A

Rated operational current [I_e]AC-15Break contact120 V [I_e]

1.5 A

Rated operational current [I_e]AC-15Break contact220 V 230 V 240 V [I_e]

1.5 A

Rated operational current [I_e]AC-15Break contact380 V 400 V 415 V [I_e]

0.9 A

Rated operational current [I_e]AC-15Break contact500 V [I_e]

0.8 A

Rated operational current [I_e]DC L/R $\square$ 15 ms

Switch-on and switch-off conditions based on DC-13, time constant as specified.

Rated operational current [I_e]DC L/R $\square$ 15 ms24 V [I_e]

0.9 A

Rated operational current [I_e]DC L/R $\square$ 15 ms60 V [I_e]

0.75 A

Rated operational current [I_e]DC L/R $\square$ 15 ms110 V [I_e]

0.4 A

Rated operational current [I_e]DC L/R $\square$ 15 ms220 V [I_e]

0.2 A

Short-circuit rating without weldingmax. fuse

6 A gG/gL

Rating data for approved types

Auxiliary contactsPilot DutyAC operated

B600

Auxiliary contactsPilot DutyDC operated

R300

Short Circuit Current Rating600 V High FaultSCCR (fuse)

100 kA

Short Circuit Current Rating600 V High Faultmax. Fuse

20 Class J A

Design verification as per IEC/EN 61439

Technical data for design verification
Rated operational current for specified heat dissipation [I_n]

5 A

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

0.17 W

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

0.5 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.

+65 °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) / Electronic overload relay (EC001080)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Overload protection device / Electronic overload relay (ecl@ss10.0.1-27-37-15-02 [AKF076014])

Adjustable current range

1 - 5 A

Mounting method

Separate positioning

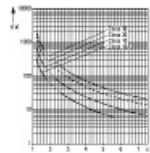Type of electrical connection of main circuit

Screw connection
Number of auxiliary contacts as normally closed contact
1
Number of auxiliary contacts as normally open contact
1
Number of auxiliary contacts as change-over contact
0
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
Release class
Adjustable
Voltage type for actuating
Self powered
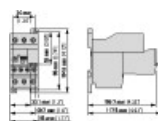Reset function automatic
Yes
Reset function input
No
Reset function push-button
Yes

Approvals

Product Standards
UL 508; CSA-C22.2 No. 14; IEC/EN 60947-4-1; CE marking
UL File No.
E1230
UL Category Control No.
NKCR
CSA File No.
2290956
CSA Class No.
3211-03
North America Certification
UL listed, CSA certified
Specially designed for North America
No
Suitable for
Branch circuits
Max. Voltage Rating
600 V AC
Degree of Protection
IEC: IP20, UL/CSA Type: -

Characteristics

Characteristic curve

Dimensions

CAD data

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

DWG files

- **DA-CD-zeb32_kk**
  File
  (Web, Language independent)

edz files

- **DA-CE-ETN.ZEB32-5_KK**
  File
  (Web)

Step files

- **DA-CS-zeb32_kk**
  File
  (Web, Language independent)

3D drawing

- □
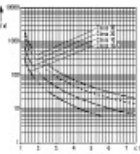 **2327DRW-7**
  Line drawing
  electronic overload relays

Product photo

-
  2327PIC-23
  Photo
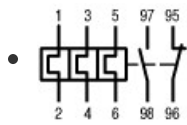 Electronic overload relays

Dimensions single product

- □
  2327DIM-2
  Line drawing

-
  2327DIM-4
  Line drawing
  electronic overload relays

Characteristic curve

-
  2327DIA-5
  Coordinate visualization

Wiring diagram

- □
  000S015
  Line drawing
  Overload release symbol

230S005
Line drawing
Overload relay circuit symbol

Instruction Leaflet

- Solid-state motor protection relay (IL04210002E)
  Asset
  (PDF, multilingual)

Download-Center

- Download-Center (this item)
  Eaton EMEA Download-Center - download data for this item
- Download-Center
  Eaton EMEA Download-Center

Generate data sheet in PDF format

Generate data sheet in Excel format

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