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ZB32-1,65-GF/KK - Overload relay, Separate mounting, Earth-fault protection: with, Ir= 0.33 - 1.65 A, 1 N/O, 1 N/C



136498 ZEB32-1,65-GF/KK

Overview Specifications Resources



136498 ZEB32-1,65-GF/KK

Overload relay, Separate mounting, Earth-fault protection: with, Ir= 0.33 - 1.65 A, 1 NO, 1 NC Alternate Catalog No. XTOE1P6CGSS

EL-Nurmer (Norway) 0004137367

Overload relay, Product range: Electronic overload relays ZEB, Phase-failure sensitivity: IEC/BN 60947, VDE 0660 Part 102, Description: Test/off button, Reset pushbutton, Manual/auto reset selectable, Protection in the case of starting under load (class 10 to class 20), 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, DILN25, DILN32, DILN38, DILLM17, DILLM25, DILLM32, 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

Bectronic overload relays Z⊞

Phase-failure sensitivity

IEC/EN 60947, VDE 0660 Part 102

Description

Test/off button

Reset pushbutton

Manual/auto reset selectable

Protection in the case of starting under load (class 10 to class 20)

Mounting type

Separate mounting

Earth-fault protection

Earth-fault protection

with

Trip at approx.

> 0.5 x l_r in 2 s

> 1.5 x l_r in 1 s

Setting range

Overload releases [Ir]

0.33 - 1.65 A

Contact sequence



Auxiliary contacts

NO = Normally open

1_{NO}

NC = Normally closed

1 N/C

For use with

DILM17

DILM25

DILM32

DILM38

DIULM17

DIULM25

DIULIVEO

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 temperature Ambient temperature open max.

65°C

Ambient temperature Enclosed Ambient 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

111/3

Rated insulation voltage [U]

690 V AC

Rated operational voltage [Ue]

690 V AC

Rated frequency [f]

50/60 Hz

Safe isolation to BN 61140Between auxiliary contacts and main contacts

600 V AC

Safe isolation to EN 61140Between main circuits

600 V AC

Terminal capacities Solid

1 x 1.5 - 16 mm²

Terminal capacities Solid or stranded

1 x 14 - 4 AWG

Stripping length 13 mm Auxiliary and control circuits Rated impulse withstand voltage [U_{imp}] Overvoltage category/pollution degree Terminal capacities Solid 2 x (0.75 - 4) mm² Terminal capacities Flexible with ferrule 2 x (0.75 - 2.5) mm² Terminal capacitiesSolid or stranded 2 x (18 - 12) 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 x 6 mm Rated insulation voltage [U] 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 [Ith] 5 A Rated operational current [le]AC-15Make contact 120 V [le] 1.5 A Rated operational current [Ie]AC-15Make contact 220 V 230 V 240 V [Ie] 1.5 A Rated operational current [Ie]AC-15Make contact 380 V 400 V 415 V [Ie] 0.5ARated operational current [l_e]AC-15Make contact500 V [l_e] 0.5ARated operational current [le]AC-15Break contact120 V [le] 1.5 A Rated operational current [le] AC-15Break contact220 V 230 V 240 V [le] 1.5 A Rated operational current [le] AC-15Break contact380 V 400 V 415 V [le] 0.9 A Rated operational current [l_e]AC-15Break contact500 V [l_e] Rated operational current [Ie]DC L/R \square 15 ms Switch-on and switch-off conditions based on DC-13, time constant as specified. Rated operational current [l_e]DC L/R □ 15 ms24 V [l_e] 0.9 A Rated operational current [l_e]DC L/R □ 15 ms60 V [l_e] 0.75 A Rated operational current [l_e]DCL/R □ 15 ms110 V [l_e] 0.4 A Rated operational current [l_e]DC L/R □ 15 ms220 V [l_e] 0.2 A Short-circuit rating without weldingmax. fuse 6 A gG/gL Rating data for approved types Auxiliary contacts Plot Duty AC operated B600 Auxiliary contacts Plot Duty DC operated R300 Short Circuit Current RatingBasic RatingSCCR 1 kA

Short Circuit Current RatingBasic Ratingmax. Fuse

Design verification as per IEC/EN 61439

Technical data for design verification

Rated operational current for specified heat dissipation [In]

1.65 A

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

0.17 W

Equipment heat dissipation, current-dependent [Pvid]

0.5 W

Static heat dissipation, non-current-dependent [Pvs]

0 W

Heat dissipation capacity [Pdiss]

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 parts10.2.4 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 ASSEVBLIES

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)

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

Adjustable current range

0.33 - 1.65 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

1

Number of auxiliary contacts as change-over contact

0

Rated control supply voltage Us at AC 50HZ

0-0V

Rated control supply voltage Us at AC 60HZ

0-0V

Rated control supply voltage Us at DC

0-0V

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







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

DWG files

DA-CD-zeb32_kk File (Web)

edz files

• DA-CE-ETN.ZEB32-1,65-GF_KK File (Web)

Step files

DA-CS-zeb32_kkFile (Web)

3D drawing



Line drawing electronic overload relays

Product photo



Photo

Bectronic overload relays

Dimensions single product

• 2327DIM-2 Line drawing



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 EVEA Download-Center - download data for this item

• Download-Center Eaton EVEA Download-Center

Generate data sheet in PDF format

Generate data sheet in Excel format

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