# **DATASHEET - ZE-0,6**







Part no.ZE-0,6Catalog No.014333Alternate CatalogXTOMP60AC1No.EL-Nummer4130477(Norway)

## **Delivery program**

| Product range             |                |   | ZE overload relays for mini contactor relays  |
|---------------------------|----------------|---|---|
| Phase-failure sensitivity |                |   | IEC/EN 60947, VDE 0660 Part 102   |
| Description               |                |   | Test/off button<br>Reset pushbutton manual/auto<br>Trip-free release                          |
| Mounting type             |                |   | Direct mounting   |
| Setting range             |                |   |   |
| Overload releases         | l <sub>r</sub> | A | 0.4 - 0.6   |
| Contact sequence          |                |   | 97 95<br>$ \begin{array}{c} 97 95 \\ 1 \\ 1 \\ 1 \\ 1 \\ 2 \\ 4 \\ 6 \\ 98 \\ 96 \end{array}$ |
| Auxiliary contacts        |                |   |   |
| N/O = Normally open       |                |   | 1 N/O   |
| N/C = Normally closed     |                |   | 1 N/C   |
| For use with              |                |   | DILEM<br>DIULEM/21/MV   |
| Short-circuit protection  |                |   |   |
| Type "1" coordination     | gG/gL          | A | 20  |
| Type "2" coordination     | gG/gL          | A | 2   |

### Notes

Overload trigger: tripping class 10 A

Short circuit protection: observe the maximum permissible fuse of the contactor with direct device mounting.

Suitable for protection of Ex e-motors



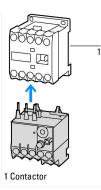
II(2)G [Ex d] [Ex e] [Ex px]

PTB 10 ATEX 3014

Observe manual MN03407003Z-DE/EN.

## Notes

When fitted directly to the contactor a clearance of at least 5 mm is required between the overload relays.



## Technical data General

| General   |                  |                 |  |
|---|------------------|-----------------|--|
| Standards   |                  |                 | IEC/EN 60947, VDE 0660, UL, CSA  |
| Climatic proofing   |                  |                 | Damp heat, constant, to IEC 60068-2-78<br>Damp heat, cyclic, to IEC 60068-2-30 |
| Ambient temperature   |                  |                 |  |
|   |                  |                 | Operating range to IEC/EN 60947<br>PTB: -5 °C - +55 °C                         |
| Open  |                  | °C              | -25 - +50  |
| Enclosed  |                  | °C              | - 25 - 40  |
| Temperature compensation  |                  |                 | Continuous   |
| Weight  |                  | kg              | 0.075  |
| Mechanical shock resistance   |                  | g               | 10<br>Sinusoidal<br>Shock duration 10 ms                                       |
| Degree of Protection  |                  |                 | IP20   |
| Protection against direct contact when actuated from front (EN 50274) |                  |                 | Finger and back-of-hand proof  |
| Altitude  |                  | m               | Max. 2000  |
| Main conducting paths   |                  |                 |  |
| Rated impulse withstand voltage                                       | U <sub>imp</sub> | V AC            | 6000   |
| Overvoltage category/pollution degree                                 |                  |                 | 111/3  |
| Rated insulation voltage  | Ui               | V               | 690  |
| Rated operational voltage   | U <sub>e</sub>   | V AC            | 690  |
| Safe isolation to EN 61140  |                  |                 |  |
| Between auxiliary contacts and main contacts                          |                  | V AC            | 300  |
| Between main circuits   |                  | V AC            | 300  |
| Temperatur compensation residual error > 40 °C                        |                  |                 | ≦ 0.25 %/K   |
| Current heat loss (3 conductors)                                      |                  |                 |  |
| Lower value of the setting range                                      |                  | W               | 2.5  |
| Maximum setting   |                  | w               | 4.8  |
| Terminal capacities   |                  | mm <sup>2</sup> |  |
| Solid   |                  | mm <sup>2</sup> | 1 x (0.75 - 2.5)   |
| Flexible with ferrule   |                  | mm <sup>2</sup> | 1 x (0.5 - 1.5)  |
| Solid or stranded   |                  | AWG             | 18 - 14  |
| Terminal screw  |                  |                 | M3.5   |
| Tightening torque   |                  | Nm              | 1.2  |
| Stripping length  |                  | mm              | 8  |
| Tools   |                  |                 |  |
| Pozidriv screwdriver  |                  | Size            | 2  |
| Standard screwdriver  |                  | mm              | 0.8 x 5.5  |
| Auxiliary and control circuits  |                  |                 |  |
| Rated impulse withstand voltage                                       | U <sub>imp</sub> | V               | 4000   |
| Overvoltage category/pollution degree                                 |                  |                 | III/3  |
| Terminal capacities   |                  | mm <sup>2</sup> |  |
| Solid   |                  | mm <sup>2</sup> | 1 x (0.75 - 2.5)<br>2 x (0.75 - 2.5)   |
| Flexible with ferrule   |                  | mm <sup>2</sup> | 1 x (0.5 - 1.5)  |

|                                      |                 |         | 2 x (0.5 - 1.5)   |
|--------------------------------------|-----------------|---------|---|
| Solid or stranded                    |                 | AWG     | 2 x (18 - 12)   |
| Terminal screw                       |                 |         | M3.5  |
| Tightening torque                    |                 | Nm      | 1.2   |
| Stripping length                     |                 | mm      | 8   |
| Tools                                |                 |         |   |
| Pozidriv screwdriver                 |                 | Size    | 2   |
| Standard screwdriver                 |                 | mm      | 0.8 × 5.5   |
| Rated insulation voltage             | Ui              | V AC    | 500   |
| Rated operational voltage            | U <sub>e</sub>  | V AC    | 500   |
| Safe isolation to EN 61140           |                 |         |   |
| between the auxiliary contacts       |                 | V AC    | 250   |
| Conventional thermal current         | I <sub>th</sub> | А       | 6   |
| Rated operational current            | Ι <sub>e</sub>  | А       |   |
| AC-15                                |                 |         |   |
| Make contact                         |                 |         |   |
| 120 V                                | Ι <sub>e</sub>  | А       | 1.5   |
| 220 V 230 V 240 V                    | Ι <sub>e</sub>  | А       | 1.5   |
| 380 V 400 V 415 V                    | Ι <sub>e</sub>  | А       | 0.7   |
| 500 V                                | I <sub>e</sub>  | А       | 0.5   |
| Break contact                        |                 |         |   |
| 120 V                                | Ι <sub>e</sub>  | A       | 1.5   |
| 220 V 230 V 240 V                    | I <sub>e</sub>  | A       | 1.5   |
| 380 V 400 V 415 V                    | Ι <sub>e</sub>  | A       | 0.7   |
| 500 V                                | I <sub>e</sub>  | A       | 0.5   |
| DC L/R ≦ 15 ms                       |                 |         |   |
|                                      |                 |         | Switch-on and switch-off conditions based on DC-13, time constant as specified. |
| 24 V                                 | ۱ <sub>e</sub>  | A       | 0.9   |
| 60 V                                 | I <sub>e</sub>  | A       | 0.75  |
| 110 V                                | l <sub>e</sub>  | A       | 0.4   |
| 220 V                                | l <sub>e</sub>  | A       | 0.2   |
| Short-circuit rating without welding |                 |         |   |
| max. fuse                            |                 | A gG/gL | 4   |
| Notes                                |                 | 5-,5-   |   |

#### Notes Ambient air temperature: Operating range to IEC/EN 60947, PTB: -5°C to +50°C Main circuits terminal capacity solid and flexible conductors with ferrules: When using 2 conductors use equal cross-sections. Rating data for approved types Auxiliary contacts Pilot Duty D300 AC operated DC operated R300 General Use AC ۷ 240 V/1,5 A 600 V/0,6 A Short Circuit Current Rating SCCR **Basic Rating** Notes CB for max. 480 V SCCR kA 5 А 1 max. Fuse max. CB А 15

## **Design verification as per IEC/EN 61439**

| <b>0</b>   |                  |   |     |
|--|------------------|---|-----|
| Technical data for design verification                   |                  |   |     |
| Rated operational current for specified heat dissipation | In               | А | 0.6 |
| Heat dissipation per pole, current-dependent             | P <sub>vid</sub> | W | 1.6 |

| Static heat dissipation, non-current-dependentPvsW0Heat dissipation capacityPdissW0Operating ambient temperature min.*C-25Operating ambient temperature max.*C50IEC/EN 61439 design verification*C5010.2.2 Corrosion resistance*CMeets the product standard's requirements.10.2.3.1 Verification of thermal stability of enclosures*CMeets the product standard's requirements.10.2.3.2 Verification of resistance of insulating materials to normal heat*CMeets the product standard's requirements.10.2.3.3 Verification of resistance of insulating materials to abnormal heatMeets the product standard's requirements.10.2.4 Resistance to ultra-violet (UV) radiationMeets the product standard's requirements.10.2.5 LiftingSoes not apply, since the entire switchgear needs to be evaluated.10.3.1 Geree of protection of ASSEMBLIESSoes not apply, since the entire switchgear needs to be evaluated.10.4 Clearances and creepage distancesNeets the product standard's requirements.10.5 Protection against electric shockSoes not apply, since the entire switchgear needs to be evaluated.10.6 Incorporation of switching devices and componentsSoes not apply, since the entire switchgear needs to be evaluated.10.6 Incorporation of switching devices and componentsSoes not apply, since the entire switchgear needs to be evaluated.10.6 Incorporation of switching devices and componentsSoes not apply, since the entire switchgear needs to be evaluated.10.6 Incorporation of switching devices and components <th></th>   |             |
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|   |             |
|   |             |
| 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.   |             |
| 10.9.3 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. E provide heat dissipation data for the devices.  | aton will   |
| 10.11 Short-circuit rating       Is the panel builder's responsibility. The specifications for the switchg observed.  | ear must be |
| 10.12 Electromagnetic compatibility       Is the panel builder's responsibility. The specifications for the switchg observed.   | ear must be |
| 10.13 Mechanical function       The device meets the requirements, provided the information in the installeaflet (IL) is observed.  | struction   |

# **Technical data ETIM 7.0**

| Low-voltage industrial components (EG000017) / Thermal overload relay (EC000106)   |   |                   |  |
|--|---|-------------------|--|
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Overload protection device / Thermal overload relay (ecl@ss10.0.1-27-37-15-01 [AKF075014]) |   |                   |  |
| Adjustable current range   | А | 0.4 - 0.6         |  |
| Max. rated operation voltage Ue  | V | 690               |  |
| Mounting method  |   | Direct attachment |  |
| 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                 |  |
| Release class  |   | CLASS 10          |  |
| Reset function input   |   | No                |  |
| Reset function automatic   |   | Yes               |  |
| Reset function push-button   |   | Yes               |  |

## **Approvals**

| - pp. o raio                |  |
|-----------------------------|--|
| Product Standards           | UL 508; CSA-C22.2 No. 14; IEC/EN 60947-4-1; IEC/EN 60947-5-1; CE marking |
| UL File No.                 | E29184   |
| UL Category Control No.     | NKCR   |
| CSA File No.                | 12528  |
| CSA Class No.               | 3211-03  |
| North America Certification | UL listed, CSA certified   |

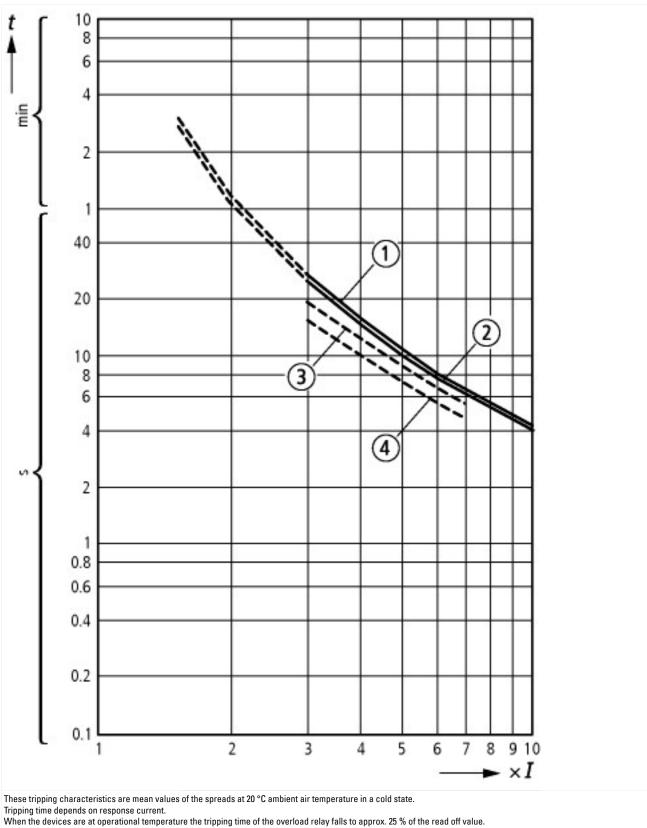
| Specially designed for North America |
|--------------------------------------|
| Suitable for                         |
| Max. Voltage Rating                  |
| Degree of Protection                 |

No

Branch circuits 600 V AC

IEC: IP20, UL/CSA Type: -

## **Characteristics**

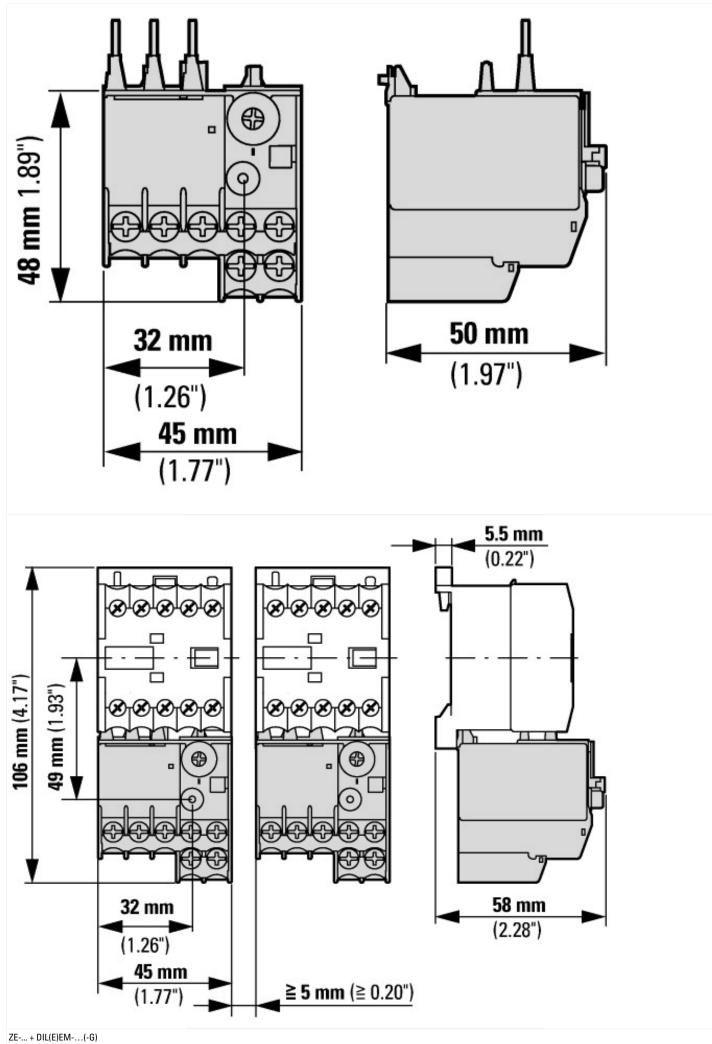


1: Minimum level, 3-phase

2: Maximum level, 3-phase

3: Minimum marker, 2-phase

4: Highest marker, 2-phase



07/12/2020

# Additional product information (links)

## IL03407007Z (AWA2300-0883) Overload relay

IL03407007Z (AWA2300-0883) Overload relay ftp://ftp.moeller.net/DOCUMENTATION/AWA\_INSTRUCTIONS/IL03407007Z2018\_03.pdf

#### MN03407003Z (AWB2300-1425) Overload relay ZE, overload monitoring for EEx e-motors

MN03407003Z (AWB2300-1425) Overload relay ZE, overload monitoring for EEx e-motors -Deutsch / English

MN03407003Z (AWB2300-1425) Overload relay ftp://ftp.moeller.net/DOCUMENTATION/AWB\_MANUALS/MN03407003Z\_DE\_EN.pdf