



## Auxiliary contact, 2 N/C, surface mounting, screw connection

**Part no.** 02DILEM  
**Article no.** 010064  
**Catalog No.** XTMCXFC02

### Delivery program

|                                  |       |   |  |
|----------------------------------|-------|---|--|
| Product range                    |       |   | Accessories  |
| Accessories                      |       |   | Auxiliary contact modules  |
| Description                      |       |   | with interlocked opposing contacts   |
| Function                         |       |   | for standard applications  |
| Connection technique             |       |   | Screw terminals  |
| <b>Rated operational current</b> |       |   |  |
| AC-15                            |       |   |  |
| 220 V 230 V 240 V                | $I_e$ | A | 4  |
| 380 V 400 V 415 V                | $I_e$ | A | 2  |
| <b>Contacts</b>                  |       |   |  |
| N/C = Normally closed            |       |   | 2 NC   |
| Mounting type                    |       |   | Front fixing   |
| Contact sequence                 |       |   |  |
| For use with                     |       |   | DILEM-10(-G)(...)<br>DILEM-4(-G)(...)<br>DILEEM-10(-G)(...)<br>DILEM12-10(-G)(...)   |
| <b>Instructions</b>              |       |   | No interlocked opposing mechanism in NO early-makes and NC late-breaks.<br>Auxiliary contact modules with positive acting contacts |

### Technical data

#### Auxiliary contacts

|   |           |      |       |
|---|-----------|------|-------|
| flexible with ferrule                                     |           |      | Yes   |
| Rated impulse withstand voltage                           | $U_{imp}$ | V AC | 6000  |
| Overvoltage category/pollution degree                     |           |      | III/3 |
| Rated insulation voltage                                  | $U_i$     | V AC | 690   |
| Rated operational voltage                                 | $U_e$     | V AC | 600   |
| Safe isolation to EN 61140                                |           |      |       |
| between coil and auxiliary contacts                       |           | V AC | 300   |
| between the auxiliary contacts                            |           | V AC | 300   |
| Rated operational current                                 |           | A    |       |
| Conventional free air thermal current, 3 pole, 50 - 60 Hz |           |      |       |
| Open  |           |      |       |
| Conv. thermal current                                     | $I_{th}$  | A    | 10    |
| AC-15   |           |      |       |
| 220 V 230 V 240 V   | $I_e$     | A    | 4     |
| 380 V 400 V 415 V   | $I_e$     | A    | 2     |
| 500 V   | $I_e$     | A    | 1.5   |
| DC current  |           |      |       |
| DC-13 L/R - 15 ms   |           |      |       |
| Contacts in series:                                       |           | A    |       |
| 1   | 24 V      | A    | 2.5   |
| 2   | 60 V      | A    | 2.5   |
| 3   | 110 V     | A    | 1.5   |

|  |              |               |  |
|--|--------------|---------------|--|
| 3  | 220 V        | A             | 0.5  |
| Control circuit reliability (at $U_e = 24$ V DC, $U_{min} = 17$ V, $I_{min} = 5.4$ mA) | Failure rate | $\lambda$     | $<10^{-8}$ , < one failure at 100 million operations                           |
| Component lifespan at $U_e = 240$ V  |              |               |  |
| AC-15  | Operations   | $\times 10^6$ | 0.2  |
| DC   |              |               |  |
| Footnote   |              |               | Switch-on and switch-off conditions based on DC-13, time constant as specified |
| L/R = 50 ms: 2 contacts in series at $I_e = 0.5$ A                                     | Operations   | $\times 10^6$ | 0.15   |
| Short-circuit rating without welding   |              |               |  |
| Maximum overcurrent protective device  |              |               |  |
| Short-circuit protection only  |              |               | PKZM0-4  |
| Short-circuit protection maximum fuse  |              |               |  |
| 500 V  |              | A gG/gL       | 6  |
| 500 V  |              | A fast        | 10   |
| Current heat loss at $I_{th}$  |              |               |  |
| Per contact  |              | W             | 0.2  |

## Design verification as per IEC/EN 61439

|  |            |    |  |
|--|------------|----|--|
| Technical data for design verification   |            |    |  |
| Rated operational current for specified heat dissipation   | $I_n$      | A  | 4  |
| Heat dissipation per pole, current-dependent   | $P_{vid}$  | W  | 0.24   |
| Equipment heat dissipation, current-dependent  | $P_{vid}$  | W  | 0  |
| Static heat dissipation, non-current-dependent   | $P_{vs}$   | W  | 0  |
| Heat dissipation capacity  | $P_{diss}$ | W  | 0  |
| Operating ambient temperature min.   |            | °C | -25  |
| Operating ambient temperature max.   |            | °C | 50   |
| IEC/EN 61439 design verification   |            |    |  |
| 10.2 Strength of materials and parts   |            |    |  |
| 10.2.2 Corrosion resistance  |            |    |  |
|  |            |    | Meets the product standard's requirements.   |
| 10.2.3.1 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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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 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. 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.                         |

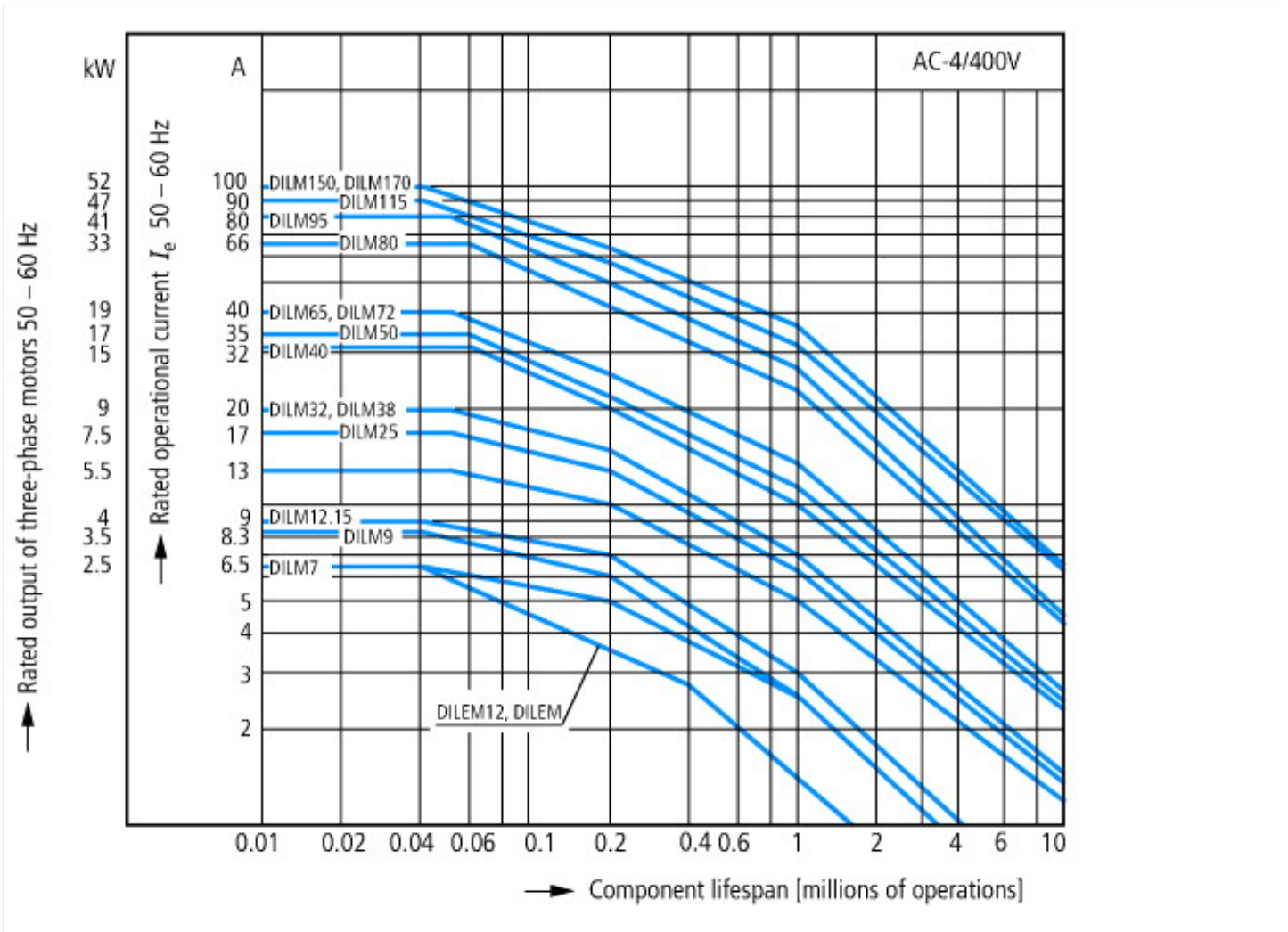
## Technical data ETIM 6.0

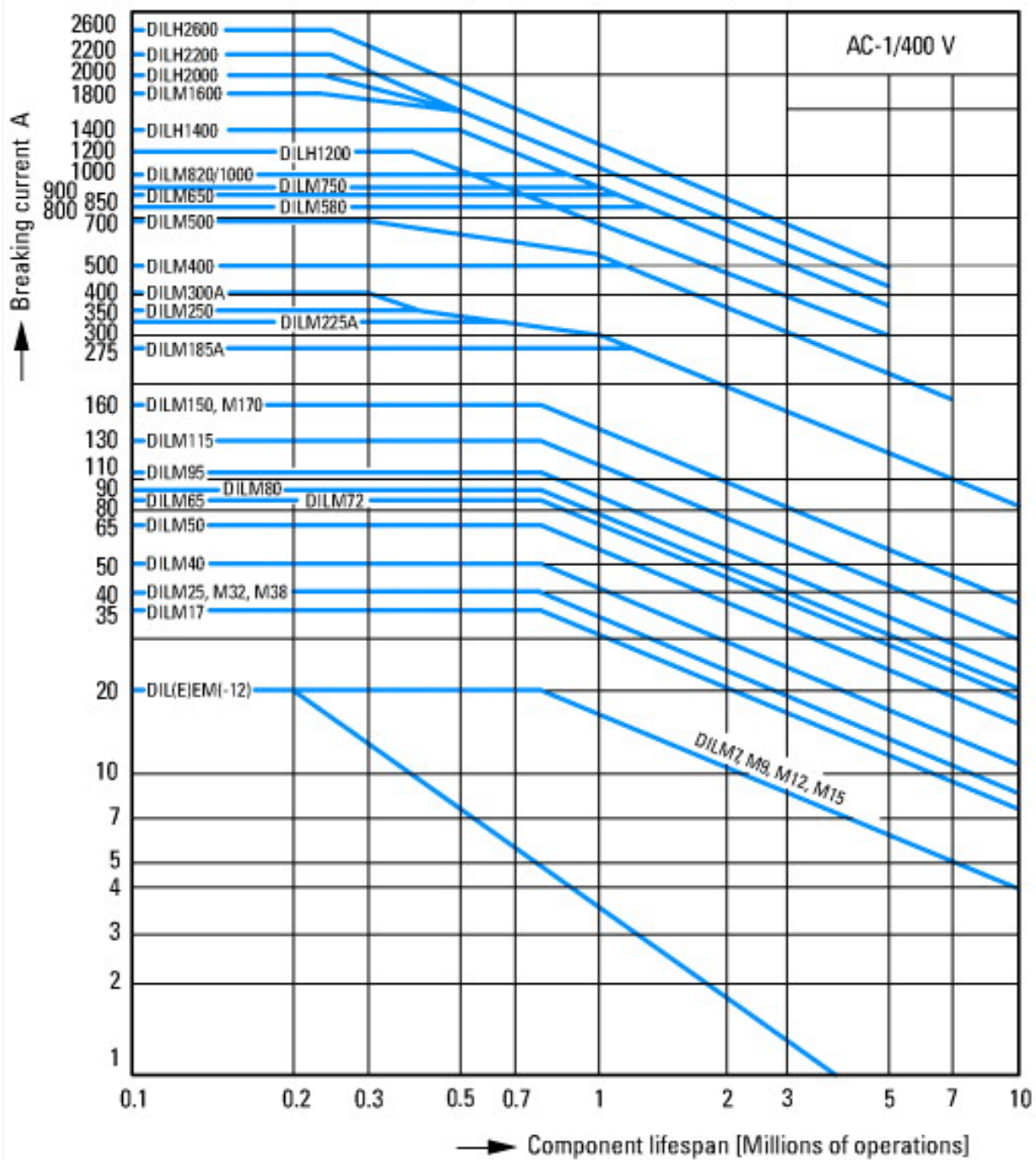
|   |   |                  |
|---|---|------------------|
| Number of contacts as change-over contact     |   | 0                |
| Number of contacts as normally open contact   |   | 0                |
| Number of contacts as normally closed contact |   | 2                |
| Rated operation current $I_e$ at AC-15, 230 V | A | 4                |
| Type of electric connection                   |   | Screw connection |
| Model   |   | Top mounting     |
| Mounting method                               |   | Front fastening  |

### Approvals

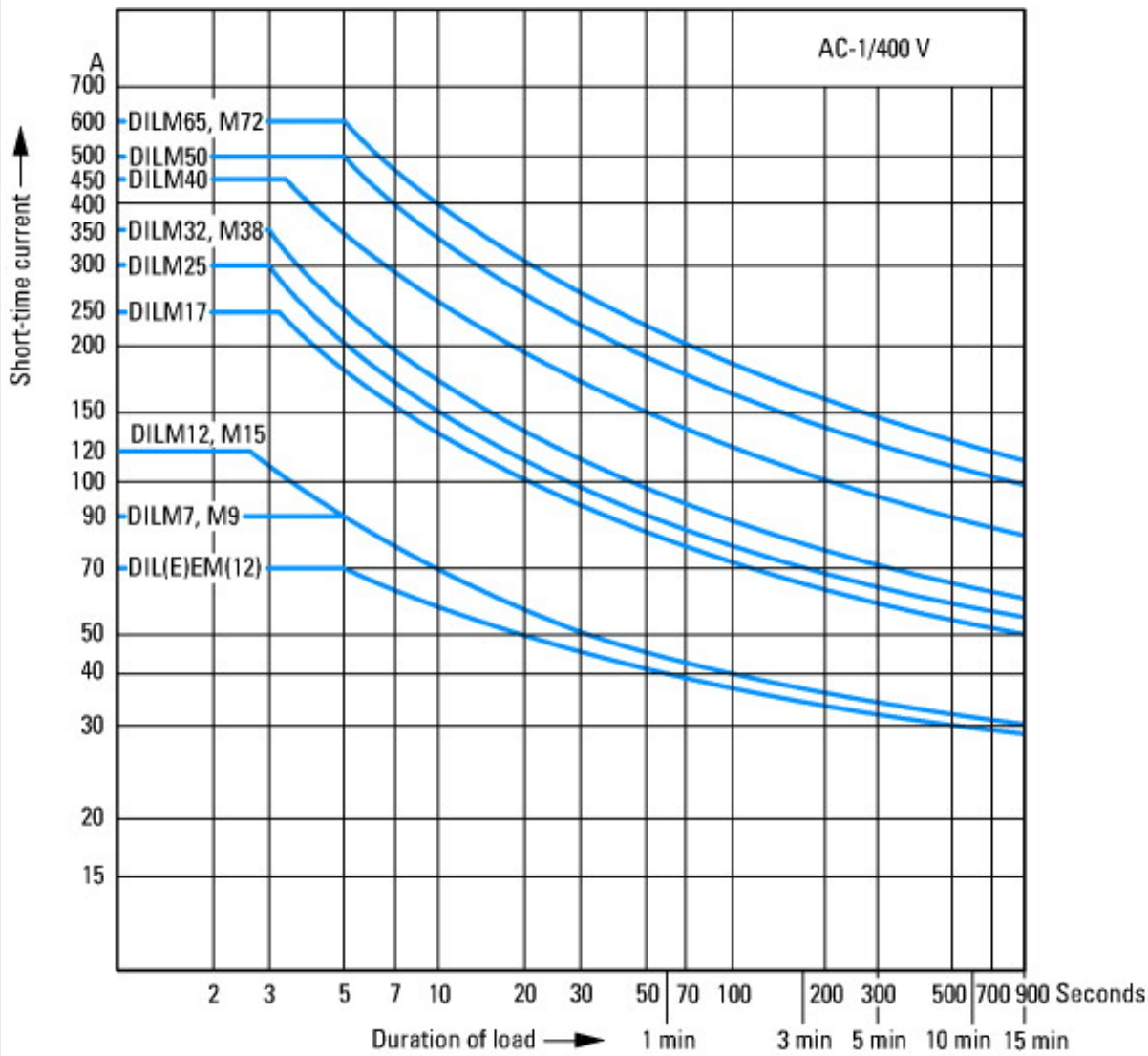
|                                      |  |   |
|--------------------------------------|--|---|
| Product Standards                    |  | IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking |
| UL File No.                          |  | E29184  |
| UL Category Control No.              |  | NKCR  |
| CSA File No.                         |  | 012528  |
| CSA Class No.                        |  | 3211-03   |
| North America Certification          |  | UL listed, CSA certified                                  |
| Specially designed for North America |  | No  |

### Characteristics



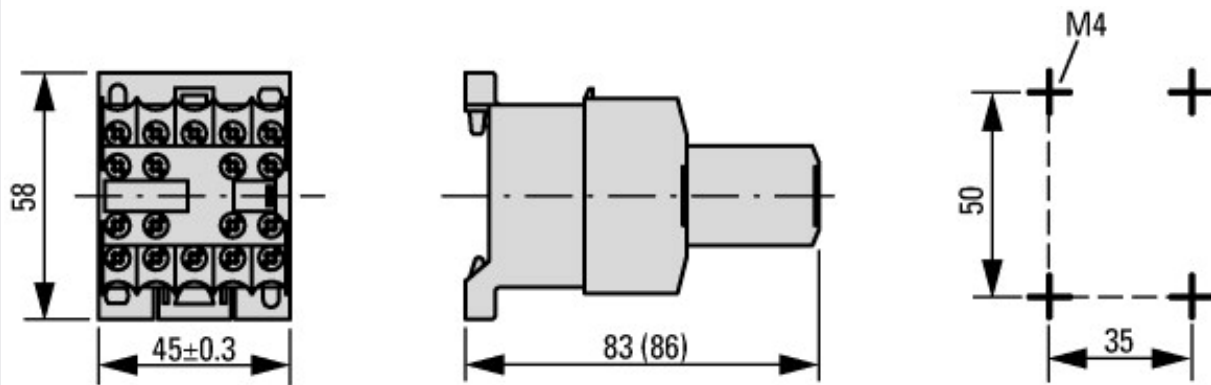


Switching duty for non-motor loads, 3-pole, 4-pole  
 Operating characteristics  
 Non-inductive or slightly inductive loads  
 Electrical characteristics  
 Make: 1 x rated current  
 Break: 1 x rated current  
 Utilization category  
 100 % AC-1  
 Typical applications  
 Electric heat



Short-time loading, 3-pole  
Time interval between two loading cycles: 15 minutes

## Dimensions



83 mm: DILE... + ...DILE(M)  
86 mm: DILE...-C... + ...DILE(M)

## Additional product information (links)

IL03407009Z (AWA2100-0882) Mini contactor relay

IL03407009Z (AWA2100-0882) Mini contactor relay

[ftp://ftp.moeller.net/DOCUMENTATION/AWA\\_INSTRUCTIONS/IL03407009Z2016\\_03.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03407009Z2016_03.pdf)

UL/CSA: Approved rating data

<http://de.ecat.moeller.net/flip-cat/?edition=HPLTE&startpage=5.84>