DATASHEET - DILER-31(TVC200)



Contactor relay, 200 V 50 Hz, 200 - 220 V 60 Hz, N/O = Normally open: 3 N/O, N/C = Normally closed: 1 NC, Screw terminals, AC operation



Part no. DILER-31(TVC200) Catalog No. 000645

Alternate Catalog XTRM10A31DH

No

Similar to illustration

| Delivery program | | | |
|---|----------------|---|---|
| Product range | | | DILER Mini-contactors |
| Application | | | Contactor relays |
| Description | | | with interlocked opposing contacts |
| Connection technique | | | Screw terminals |
| Rated operational current | | | |
| Conventional free air thermal current, 1 pole | | | |
| Open | | | |
| at 50 °C | $I_{th} = I_e$ | Α | 10 |
| AC-15 | | | |
| 220 V 230 V 240 V | l _e | Α | 6 |
| 380 V 400 V 415 V | l _e | Α | 3 |
| Contacts | | | |
| N/O = Normally open | | | 3 N/O |
| N/C = Normally closed | | | 1 NC |
| Contact sequence | | | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| Code number and version of combination | | | |
| Distinctive number | | | 31E |
| For use with | | | DILE |
| Actuating voltage | | | 200 V 50 Hz, 200 - 220 V 60 Hz |
| Voltage AC/DC | | | AC operation |
| Instructions | | | Contact numbers to EN 50011 Coil terminal markings to EN 50005 |

Technical data

General

| General | | | |
|-----------------------------|--------------|-------------------|--|
| Standards | | | IEC/EN 60947, EN 60947-5-1, VDE 0660, UL, CSA |
| Lifespan, mechanical | | | |
| AC operated | Operations | x 10 ⁶ | 10 |
| Maximum operating frequency | Operations/h | | 9000 |
| Climatic proofing | | | Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 |
| Ambient temperature | | | |
| Open | | °C | -25 - +50 |
| Enclosed | | °C | - 25 - 40 |
| Mounting position | | | |
| Mounting position | | | As required, except vertical with terminals A1/A2 at the bottom |

| Mounting position | | | |
|---|------------------|-----------------|---|
| Mechanical shock resistance (IEC/EN 60068-2-27) | | | |
| Half-sinusoidal shock, 10 ms | | | |
| Basic unit with auxiliary contact module | | g | |
| N/O contact | | g | 10 |
| N/C contact | | g | 8 |
| Degree of Protection | | | IP20 |
| Altitude | | m | Max. 2000 |
| Weight | | | |
| AC operated | | kg | 0.17 |
| Terminal capacities | | mm^2 | |
| Screw terminals | | | |
| Solid | | mm ² | 1 x (0.75 - 2.5) 2 x (0.75 - 2.5) |
| Flexible with ferrule | | mm ² | 1 x (0.75 - 1.5) 2 x (0.75 - 1.5) |
| Solid or stranded | | AWG | 18 - 14 1 x (18 - 14) 2 x (18 - 14) |
| Stripping length | | mm | 8 |
| Terminal screw | | | M3.5 |
| Pozidriv screwdriver | | Size | 2 |
| Standard screwdriver | | mm | 0.8 x 5.5 1 x 6 |
| Max. tightening torque | | Nm | 1.2 |
| Contacts | | | |
| Interlocked opposing contacts to ZH 1/457, including auxiliary contact module | | | Yes |
| Rated impulse withstand voltage | U _{imp} | V AC | 6000 |
| Overvoltage category/pollution degree | | | III/3 |
| Rated insulation voltage | Ui | 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 | | Α | |
| Conventional free air thermal current, 1 pole | | | |
| Open | | | |
| at 50 °C | $I_{th} = I_e$ | Α | 10 |
| AC-15 | | | |
| 220 V 230 V 240 V | I _e | Α | 6 |
| 380 V 400 V 415 V | l _e | Α | 3 |
| 500 V | I _e | Α | 1.5 |
| DC current | | | |
| Notes | | | Switch-on and switch-off conditions based on DC-13, time constant as specified. |
| DC L/R ≦ 15 ms | | | |
| Contacts in series: | | Α | |
| 1 | 24 V | Α | 2.5 |
| 2 | 60 V | Α | 2.5 |

| Maximum overcurrent protective device 220 V 230 V 240 V 380 V 400 V 415 V Short-circuit protection maximum fuse 500 V 500 V 500 V Current haat loss at I _{th} AC operated AC operated AC operated AC operated AC operated Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Sealing VA AC operated Closing delay AC operated Closing delay AC operated With auxiliary contact module Max. closing delay AC operated With auxiliary contact module Max. closing delay AC operated With auxiliary contact module Max. closing delay AC operated With auxiliary contact module Max. closing delay Bating data for approved types | | | | |
|--|--|--------------|------------------|---|
| Control circuit reliability Short-circuit rating without welding Maximum overcurrent protective device 220 V 230 V 240 V 380 V 400 V 415 V Short-circuit protection maximum fuse 500 V 500 V 500 V 500 V 60 V 70 V 7 | 3 | 110 V | Α | 1.5 |
| Short-circuit rating without welding | 3 | 220 V | Α | 0.5 |
| Maximum overcurrent protective device 220 V 230 V 240 V 380 V 400 V 415 V Short-circuit protection maximum fuse 500 V 500 V 500 V Current haat loss at I _{th} AC operated AC operated AC operated AC operated AC operated Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Sealing VA AC operated Closing delay AC operated Closing delay AC operated With auxiliary contact module Max. closing delay AC operated With auxiliary contact module Max. closing delay AC operated With auxiliary contact module Max. closing delay AC operated With auxiliary contact module Max. closing delay Bating data for approved types | Control circuit reliability | Failure rate | λ | $<10^{-8}, <$ one failure at 100 million operations (at Ue = 24 V DC, Umin = 17 V, Imin = 5.4 mA) |
| PKZM0 PKZM0 PKZM0 | Short-circuit rating without welding | | | |
| Short-circuit protection maximum fuse 500 V 500 V Current heat loss at I _{th} AC operated Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Pick-up AC operated AC operated Pick-up AC operated AC operated AC operated AC operated Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Pick-up AC operated AC operated N/O contact opening delay AC operated Vi/O contact opening delay AC operated Vi/O contact opening delay AC operated Vi/O contact opening delay AC operated With auxiliary contact module Max. closing delay AC operated With auxiliary contact module Max. closing delay AC operated With auxiliary contact module Max. closing delay AC operated With auxiliary contact module Max. closing delay AC operated With auxiliary contact module Max. closing delay AC operated With auxiliary contact module Max. closing delay AC operated With auxiliary contact module Max. closing delay AC operated With auxiliary contact module Max. closing delay AC operated With auxiliary contact module Max. closing delay AC operated With auxiliary contact module Max. closing delay AC operated With auxiliary contact module Max. closing delay AC operated With auxiliary contact module Max. closing delay AC operated With auxiliary contact module Max. closing delay AC operated With auxiliary contact module Max. closing delay AC operated With auxiliary contact module Max. closing delay | Maximum overcurrent protective device | | | |
| Short-circuit protection maximum fuse 500 V 500 V Current heat loss at I _{th} AC operated Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Pick-up Pick-up AC operated AC operated AC operated Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Pick-up AC operated AC operated N/O contact opening delay AC operated N/O contact opening delay AC operated N/O contact module Max. closing delay AC operated With auxiliary contact module Max. closing delay AC operated With auxiliary contact module Max. closing delay AC operated With auxiliary contact module Max. closing delay AC operated With auxiliary contact module Max. closing delay AC operated With auxiliary contact module Max. closing delay AC operated With auxiliary contact module Max. closing delay AC operated With auxiliary contact module Max. closing delay AC operated With auxiliary contact module Max. closing delay AC operated With auxiliary contact module Max. closing delay AC operated With auxiliary contact module Max. closing delay AC operated With auxiliary contact module Max. closing delay AC operated With auxiliary contact module Max. closing delay AC operated With auxiliary contact module Max. closing delay AC operated With auxiliary contact module Max. closing delay AC operated With auxiliary contact module Max. closing delay AC operated With auxiliary contact module Max. closing delay | 220 V 230 V 240 V | | PKZM0 | 4 |
| SOUN | 380 V 400 V 415 V | | PKZM0 | 4 |
| Current heat loss at lan AC operated AC operated VV 1.1 Magnet systems Voltage tolerance AC operated Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Dual-frequency coil 50/60 Hz AC operation AC operation AC operation Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single | Short-circuit protection maximum fuse | | | |
| Current heat loss at I _{th} W 1.1 Magnet systems Voltage tolerance V 1.5 AC operated Fick-up X U _c 0.85 - 1.1 Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Pick-up X U _c 0.85 - 1.1 Power consumption Fick-up X U _c 0.85 - 1.1 AC operation Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Pick-up VA 25 Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Sealing VA 4.6 Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Sealing VA 1.3 duty factor % DF 100 Changeover time at 100 % U _S (recommended value) ms 14 - 21 AC operated N/O contact opening delay ms 8 - 18 AC operated With auxiliary contact module Max. closing delay ms 45 | 500 V | | A gG/gL | 6 |
| AC operated AC operated AC operated AC operated Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Sealing VA 4.6 Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Sealing VA 4.6 Solution Solution VA 4.6 Solution Solution VA 4.6 Solutio | 500 V | | A fast | 10 |
| Magnet systems Voltage tolerance AC operated Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Dual-frequency coil 50/60 Hz Pick-up x U _c 0.85 - 1.1 Power consumption AC operation Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Sealing VA Sealing W 1.3 duty factor Changeover time at 100 % U _S (recommended value) AC operated N/O contact opening delay AC operated N/O contact opening delay AC operated With auxiliary contact module Max. closing delay Rating data for approved types | Current heat loss at I _{th} | | | |
| Voltage tolerance AC operated Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Pick-up VUc 0.85 - 1.1 Dual-frequency coil 50/60 Hz Pick-up VUc 0.85 - 1.1 Power consumption AC operation Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Sealing VA Sealing VB 1.3 duty factor Changeover time at 100 % U _S (recommended value) AC operated closing delay AC operated N/O contact opening delay AC operated With auxiliary contact module Max. closing delay Rating data for approved types | AC operated | | W | 1.1 |
| AC operated Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Pick-up X U _C 0.85 - 1.1 Dual-frequency coil 50/60 Hz Power consumption AC operation Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Soluty factor Changeover time at 100 % U _S (recommended value) AC operated closing delay AC operated N/O contact opening delay AC operated With auxiliary contact module Max. closing delay RA Coperated With auxiliary contact module Max. closing delay RA Caperated With auxiliary contact module Max. closing delay RA Caperated With auxiliary contact module Max. closing delay RA Caperated With auxiliary contact module Max. closing delay RA Caperated With auxiliary contact module Max. closing delay RA Caperated With auxiliary contact module Max. closing delay RA Caperated With auxiliary contact module Max. closing delay RA Caperated With auxiliary contact module Max. closing delay RA Caperated With auxiliary contact module Max. closing delay | Magnet systems | | | |
| Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Pick-up X U _C 0.85 - 1.1 Power consumption AC operation Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Sealing W 1.3 duty factor Changeover time at 100 % U _S (recommended value) AC operated closing delay AC operated N/O contact opening delay AC operated With auxiliary contact module Max. closing delay AC operated With auxiliary contact module Max. closing delay Rating data for approved types | Voltage tolerance | | | |
| Dual-frequency coil 50/60 Hz Power consumption AC operation Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Sealing W 1.3 duty factor Changeover time at 100 % U _S (recommended value) AC operated Closing delay AC operated N/O contact opening delay AC operated With auxiliary contact module Max. closing delay AC operated With auxiliary contact module Max. closing delay Rating data for approved types | AC operated | | | |
| Power consumption AC operation Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Sealing WA 4.6 Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Sealing W 1.3 duty factor Changeover time at 100 % U _S (recommended value) AC operated closing delay AC operated N/O contact opening delay AC operated With auxiliary contact module Max. closing delay RAC operated With auxiliary contact module Max. closing delay RAC approved types | Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz | Pick-up | $x U_c$ | 0.85 - 1.1 |
| AC operation Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Sealing W 1.3 duty factor WDF 100 Changeover time at 100 % U _S (recommended value) AC operated closing delay MC operated N/O contact opening delay MC operated With auxiliary contact module Max. closing delay MC operated With auxiliary contact module Max. closing delay Rating data for approved types | Dual-frequency coil 50/60 Hz | Pick-up | x U _c | 0.85 - 1.1 |
| Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Sealing VA 4.6 Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Sealing W 1.3 duty factor Changeover time at 100 % U _S (recommended value) AC operated closing delay AC operated N/O contact opening delay AC operated With auxiliary contact module Max. closing delay Rating data for approved types | Power consumption | | | |
| Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz Sealing W 1.3 duty factor Changeover time at 100 % U _S (recommended value) AC operated closing delay AC operated N/O contact opening delay AC operated With auxiliary contact module Max. closing delay Rating data for approved types | AC operation | | | |
| Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz duty factor Changeover time at 100 % U _S (recommended value) AC operated closing delay AC operated N/O contact opening delay AC operated With auxiliary contact module Max. closing delay Rating data for approved types | Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz | Pick-up | VA | 25 |
| duty factor % DF 100 Changeover time at 100 % U _S (recommended value) AC operated closing delay ms 14 - 21 AC operated N/O contact opening delay ms 8 - 18 AC operated With auxiliary contact module Max. closing delay ms 45 Rating data for approved types | Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz | Sealing | VA | 4.6 |
| Changeover time at 100 % U _S (recommended value) AC operated closing delay AC operated N/O contact opening delay AC operated With auxiliary contact module Max. closing delay Rating data for approved types | Single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz | Sealing | W | 1.3 |
| AC operated closing delay ms 14 - 21 AC operated N/O contact opening delay ms 8 - 18 AC operated With auxiliary contact module Max. closing delay ms 45 Rating data for approved types | duty factor | | % DF | 100 |
| AC operated N/O contact opening delay ms 8 - 18 AC operated With auxiliary contact module Max. closing delay ms 45 Rating data for approved types | Changeover time at 100 % U _S (recommended value) | | | |
| AC operated With auxiliary contact module Max. closing delay ms 45 Rating data for approved types | AC operated closing delay | | ms | 14 - 21 |
| Rating data for approved types | AC operated N/O contact opening delay | | ms | 8 - 18 |
| | AC operated With auxiliary contact module Max. closing delay | | ms | 45 |
| Auxiliary contacts | Rating data for approved types | | | |
| | Auxiliary contacts | | | |

| Auxiliary contacts | | |
|--------------------|---|------|
| Pilot Duty | | |
| AC operated | | A600 |
| DC operated | | P300 |
| General Use | | |
| AC | V | 600 |
| AC | Α | 10 |
| DC | V | 250 |
| DC | А | 0.5 |

Design verification as per IEC/EN 61439

| Technical data for design verification | | | |
|--|-------------------|----|--|
| Rated operational current for specified heat dissipation | In | Α | 6 |
| Heat dissipation per pole, current-dependent | P _{vid} | W | 0.4 |
| Equipment heat dissipation, current-dependent | P _{vid} | W | 0 |
| Static heat dissipation, non-current-dependent | P_{vs} | W | 1.8 |
| 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 $ \frac{1}{2} \left(\frac{1}{2} \right) = \frac{1}{2} \left(\frac{1}{2} \right) \left($ | | | Meets the product standard's requirements. |
| 10.2.4 Resistance to ultra-violet (UV) radiation | | | Meets the product standard's requirements. |

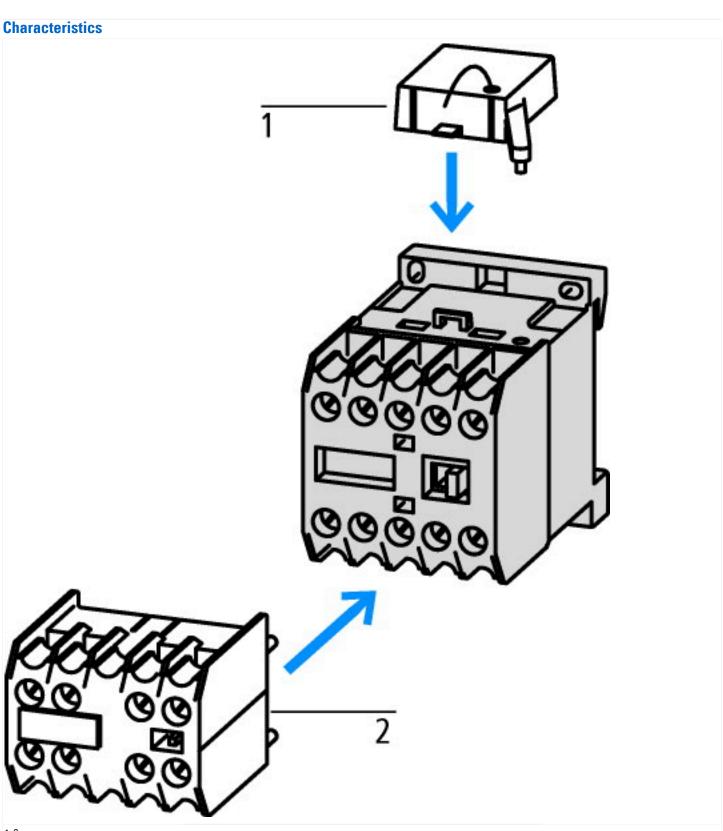
| 10.2.5 Lifting | Does not apply, since the entire switchgear needs to be evaluated. |
|--|--|
| 10.2.6 Mechanical impact | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.2.7 Inscriptions | Meets the product standard's requirements. |
| 10.3 Degree of protection of ASSEMBLIES | 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 7.0

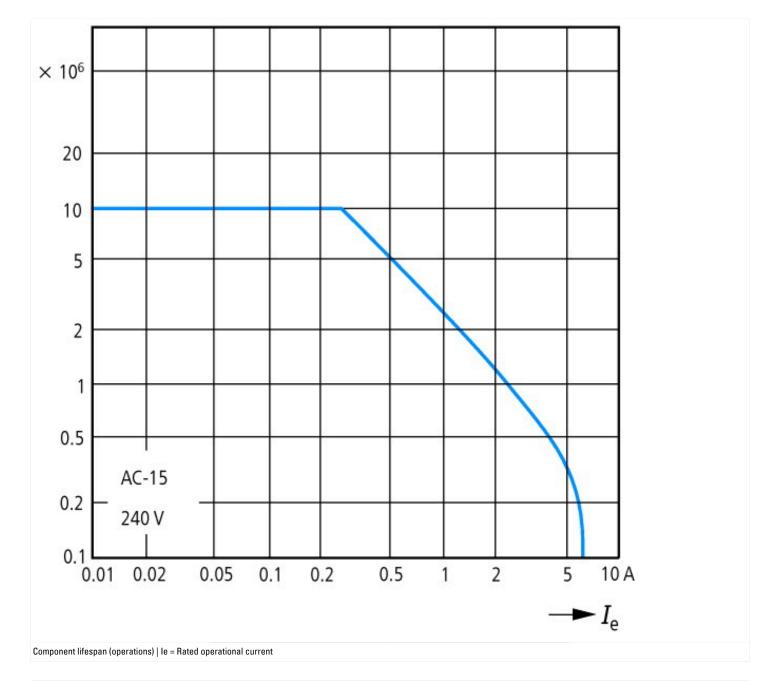
| Low-voltage industrial components (EG000017) / Contactor relay (EC000196) | | |
|---|---|------------------|
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Contactor (LV) / Contactor relay (ecl@ss10.0.1-27-37-10-01 [AAB716014]) | | |
| Rated control supply voltage Us at AC 50HZ | V | 200 - 200 |
| Rated control supply voltage Us at AC 60HZ | V | 200 - 220 |
| Rated control supply voltage Us at DC | V | 0 - 0 |
| Voltage type for actuating | | AC |
| Rated operation current le, 400 V | Α | 3 |
| Connection type auxiliary circuit | | Screw connection |
| Mounting method | | DIN-rail/screw |
| Interface | | No |
| Number of auxiliary contacts as normally closed contact | | 1 |
| Number of auxiliary contacts as normally open contact | | 3 |
| Number of auxiliary contacts as normally closed contact, delayed switching | | 0 |
| Number of auxiliary contacts as normally open contact, leading | | 0 |
| With LED indication | | No |
| Number of auxiliary contacts as change-over contact | | 0 |
| Manual operation possible | | No |

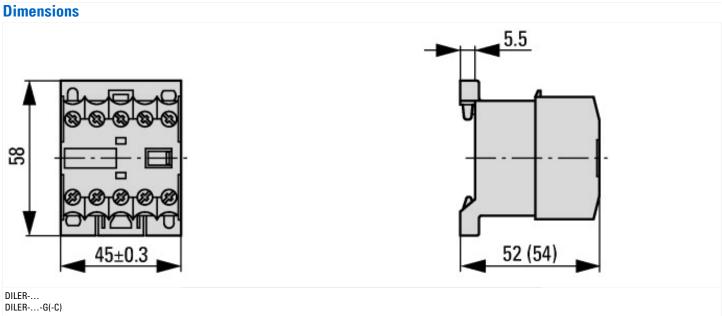
Approvals

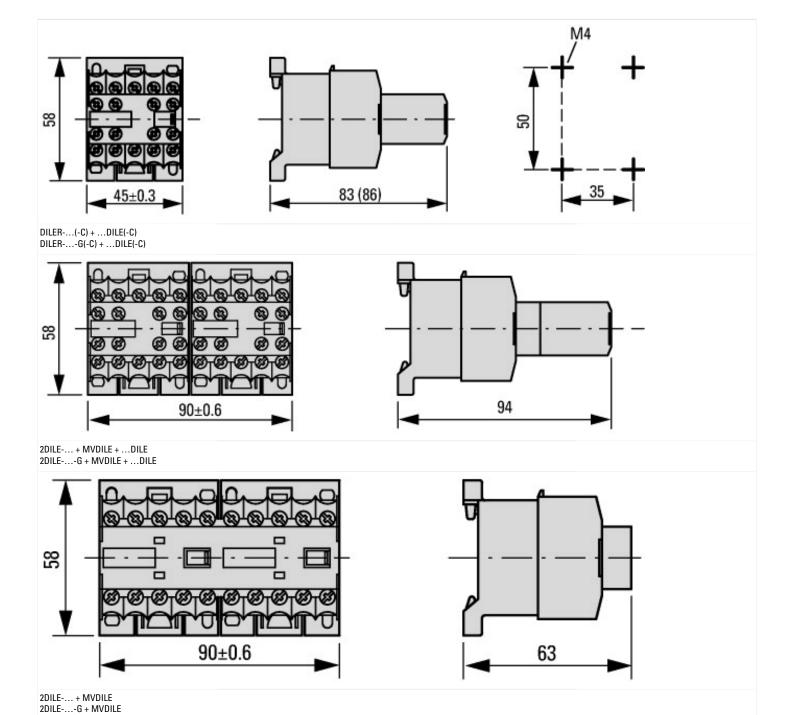
| Product Standards | IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking |
|--------------------------------------|---|
| UL File No. | E29184 |
| UL Category Control No. | NKCR |
| CSA File No. | 012528 |
| CSA Class No. | 3211-03 |
| North America Certification | UL listed, CSA certified |
|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



1: Suppressor 2: Auxiliary contact module







Assets (links)

Declaration of CE Conformity

00003110

Instruction Leaflets

IL03407009Z2018_04

Additional product information (links)

IL03407009Z (AWA2100-0882) Mini contactor relay

IL03407009Z (AWA2100-0882) Mini contactor relay

ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03407009Z2020_05.pdf