

# Specifications

## Eaton 010304

Eaton Moeller® series DILE Auxiliary contact module, 4 pole, 4 N/O, Front fixing, Screw terminals, DILE(E)M, DILER



### General specifications

|                                 |                                                                                                                                                                                                               |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRODUCT NAME</b>             | Eaton Moeller® series<br>DILE Accessory Auxiliary<br>contact module                                                                                                                                           |
| <b>CATALOG NUMBER</b>           | 010304                                                                                                                                                                                                        |
| <b>MODEL CODE</b>               | 40DILE                                                                                                                                                                                                        |
| <b>EAN</b>                      | 4015080103042                                                                                                                                                                                                 |
| <b>PRODUCT<br/>LENGTH/DEPTH</b> | 36 mm                                                                                                                                                                                                         |
| <b>PRODUCT HEIGHT</b>           | 32 mm                                                                                                                                                                                                         |
| <b>PRODUCT WIDTH</b>            | 45 mm                                                                                                                                                                                                         |
| <b>PRODUCT WEIGHT</b>           | 0.04 kg                                                                                                                                                                                                       |
| <b>CERTIFICATIONS</b>           | CE<br>CSA<br>CSA Class No.: 3211-03<br>IEC/EN 60947-4-1<br>IEC/EN 60947<br>UL 508<br>UL Category Control No.:<br>NKCR<br>UL File No.: E29184<br>CSA File No.: 012528<br>VDE 0660<br>CSA-C22.2 No. 14-05<br>UL |

## Climatic environmental conditions

|                                                       |                                                                                |
|-------------------------------------------------------|--------------------------------------------------------------------------------|
| <b>AMBIENT OPERATING TEMPERATURE - MAX</b>            | 50 °C                                                                          |
| <b>AMBIENT STORAGE TEMPERATURE - MAX</b>              | 80 °C                                                                          |
| <b>AMBIENT OPERATING TEMPERATURE - MIN</b>            | -25 °C                                                                         |
| <b>AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX</b> | 40 °C                                                                          |
| <b>AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN</b> | -25 °C                                                                         |
| <b>AMBIENT STORAGE TEMPERATURE - MIN</b>              | -40 °C                                                                         |
| <b>CLIMATIC PROOFING</b>                              | Damp heat, cyclic, to IEC 60068-2-30<br>Damp heat, constant, to IEC 60068-2-78 |

## Conventional thermal current I<sub>th</sub>

|                                                                                         |      |
|-----------------------------------------------------------------------------------------|------|
| <b>CONVENTIONAL THERMAL CURRENT I<sub>TH</sub> OF AUXILIARY CONTACTS (1-POLE, OPEN)</b> | 10 A |
|-----------------------------------------------------------------------------------------|------|

## Contacts

|                                                      |                                                                                                                                |
|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| <b>CODE NUMBER</b>                                   | 80E in combination with DILER-40(-G)<br>71 in combination with DILER-31(-G)<br>62 in combination with DILER-22                 |
| <b>CONTROL CIRCUIT RELIABILITY</b>                   | < 2 λ, < 1 failure at 100,000,000 Operations (at U <sub>e</sub> = 24 V DC, U <sub>min</sub> = 17 V, I <sub>min</sub> = 5.4 mA) |
| <b>NUMBER OF CONTACTS (CHANGE-OVER CONTACTS)</b>     | 0                                                                                                                              |
| <b>NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)</b> | 0                                                                                                                              |
| <b>NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)</b>   | 4                                                                                                                              |

## Design verification

|                                                                                   |                                                                                                                                  |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>10.10 TEMPERATURE RISE</b>                                                     | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| <b>10.11 SHORT-CIRCUIT RATING</b>                                                 | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| <b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>                                        | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| <b>10.13 MECHANICAL FUNCTION</b>                                                  | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.                         |
| <b>10.2.2 CORROSION RESISTANCE</b>                                                | Meets the product standard's requirements.                                                                                       |
| <b>10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES</b>                   | Meets the product standard's requirements.                                                                                       |
| <b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b> | Meets the product standard's requirements.                                                                                       |

|                                                                                         |                                                                    |
|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| <b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b> | Meets the product standard's requirements.                         |
| <b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION</b>                                 | Meets the product standard's requirements.                         |
| <b>10.2.5 LIFTING</b>                                                                   | Does not apply, since the entire switchgear needs to be evaluated. |
| <b>10.2.6 MECHANICAL IMPACT</b>                                                         | Does not apply, since the entire switchgear needs to be evaluated. |
| <b>10.2.7 INSCRIPTIONS</b>                                                              | Meets the product standard's requirements.                         |
| <b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>                                          | Does not apply, since the entire switchgear needs to be evaluated. |
| <b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>                                           | Meets the product standard's requirements.                         |
| <b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>                                           | Does not apply, since the entire switchgear needs to be evaluated. |
| <b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>                           | Does not apply, since the entire switchgear needs to be evaluated. |
| <b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>                                | Is the panel builder's responsibility.                             |
| <b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>                                         | Is the panel builder's responsibility.                             |
| <b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>                                         | Is the panel builder's responsibility.                             |
| <b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>                                                 | Is the panel builder's responsibility.                             |
| <b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b>                         | Is the panel builder's responsibility.                             |
| <b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>                               | 0 W                                                                |
| <b>HEAT DISSIPATION CAPACITY PDISS</b>                                                  | 0 W                                                                |
| <b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>                                | 0.24 W                                                             |
| <b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>                    | 4 A                                                                |
| <b>STATIC HEAT</b>                                                                      | 0 W                                                                |

**DISSIPATION, NON-CURRENT-DEPENDENT PVS**

**Electrical rating**

**RATED INSULATION VOLTAGE (UI)**

690 V

**RATED OPERATIONAL CURRENT (IE)**

2.5 A at 24 V, DC L/R  $\leq$  15 ms (with 1 contact in series)  
1.5 A at 110 V, DC L/R  $\leq$  15 ms (with 3 contacts in series)  
2.5 A at 60 V, DC L/R  $\leq$  15 ms (with 2 contacts in series)  
0.5 A at 220 V, DC L/R  $\leq$  15 ms (with 3 contacts in series)

**RATED OPERATIONAL CURRENT (IE) AT AC-15, 220 V, 230 V, 240 V**

4 A

**RATED OPERATIONAL CURRENT (IE) AT AC-15, 380 V, 400 V, 415 V**

2 A

**RATED OPERATIONAL CURRENT (IE) AT AC-15, 500 V**

1.5 A

**RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX**

600 V

**SAFE ISOLATION**

300 V AC, Between auxiliary contacts,  
According to EN 61140  
300 V AC, Between coil and auxiliary contacts,  
According to EN 61140

**Features & functions**

**ELECTRIC CONNECTION TYPE**

Screw connection

**FEATURES**

Interlocked opposing contacts within an auxiliary contact module (according to IEC 60947-5-1 Annex L)

**FITTED WITH:**

Interlocked opposing contacts  
Switching elements according to EN 50005

**FUNCTIONS**

For standard applications

**NUMBER OF POLES**

Four-pole

## General information

|                                               |                                                                                                                                                                                                  |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DEGREE OF PROTECTION</b>                   | IP20                                                                                                                                                                                             |
| <b>LIFESPAN, MECHANICAL</b>                   | 20,000,000 Operations (DC operated)<br>10,000,000 Operations (AC operated)<br>150,000 Operations (at 240 V, DC, L/R = 50 ms: 2 contacts in series 0.5 A)<br>200,000 Operations (at 240 V, AC-15) |
| <b>MODEL</b>                                  | Top mounting                                                                                                                                                                                     |
| <b>MOUNTING METHOD</b>                        | Front fastening                                                                                                                                                                                  |
| <b>MOUNTING POSITION</b>                      | As required (except vertical with terminals A1/A2 at the bottom)                                                                                                                                 |
| <b>OPERATING FREQUENCY</b>                    | 9000 Operations/h                                                                                                                                                                                |
| <b>OVERVOLTAGE CATEGORY</b>                   | III                                                                                                                                                                                              |
| <b>POLLUTION DEGREE</b>                       | 3                                                                                                                                                                                                |
| <b>PROTECTION</b>                             | Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)                                                                                             |
| <b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b> | 6000 V AC                                                                                                                                                                                        |
| <b>SHOCK RESISTANCE</b>                       | 8 g, N/C contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms<br>10 g, N/O contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms          |

## Switching capacity

|                                                             |                                                          |
|-------------------------------------------------------------|----------------------------------------------------------|
| <b>SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)</b> | 10 A, 600 V AC, (UL/CSA)<br>0.5 A, 250 V DC, (UL/CSA)    |
| <b>SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)</b>  | A600, AC operated (UL/CSA)<br>P300, DC operated (UL/CSA) |

## Short-circuit rating

|                                                        |                                                                               |
|--------------------------------------------------------|-------------------------------------------------------------------------------|
| <b>SHORT-CIRCUIT PROTECTION RATING</b>                 | 10 A fast, 500V, Maximum fuse, Short-circuit rating without welding, Contacts |
| <b>SHORT-CIRCUIT PROTECTION RATING WITHOUT WELDING</b> | 6 A gG/gL, 500 V, Max. Fuse, Contacts                                         |

## Terminal capacities

|                                                  |                                                                                                     |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| <b>SCREW SIZE</b>                                | M3.5, Terminal screw                                                                                |
| <b>SCREWDRIVER SIZE</b>                          | 0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver<br>2, Terminal screw, Pozidriv screwdriver |
| <b>TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)</b> | 2 x (0.75 - 1.5) mm <sup>2</sup><br>1 x (0.75 - 1.5) mm <sup>2</sup>                                |
| <b>TERMINAL CAPACITY (SOLID)</b>                 | 1 x (0.75 - 2.5) mm <sup>2</sup><br>2 x (0.75 - 2.5) mm <sup>2</sup>                                |
| <b>TERMINAL CAPACITY (SOLID/STRANDED AWG)</b>    | Single 18 - 14, double 18 - 14                                                                      |

## Resources

|                            |                                                                                                                                                                                                                                                           |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CATALOGUES                 | <a href="#">eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf</a>                                                                                                                                                                    |
| CHARACTERISTIC CURVE       | <a href="#">eaton-manual-motor-starters-characteristic-characteristic-curve-008.eps</a><br><a href="#">eaton-contactors-switch-dilm-characteristic-curve-002.eps</a><br><a href="#">eaton-contactors-short-time-loading-dilm-characteristic-curve.eps</a> |
| DECLARATIONS OF CONFORMITY | <a href="#">eaton-accessory-declaration-of-conformity-uk251273en.pdf</a><br><a href="#">eaton-accessory-declaration-of-conformity-eu250790en.pdf</a>                                                                                                      |
| DRAWINGS                   | <a href="#">eaton-contactors-diler-dimensions-002.eps</a><br><a href="#">eaton-contactors-contact-dile-accessory-3d-drawing.eps</a>                                                                                                                       |
| ECAD MODEL                 | <a href="#">eaton-dile-accessory-auxiliary-contact-module-eplan-010304.edz</a>                                                                                                                                                                            |
| INSTALLATION INSTRUCTIONS  | <a href="#">IL03407009Z</a>                                                                                                                                                                                                                               |
| MCAD MODEL                 | <a href="#">DA-CS-hs_dile</a><br><a href="#">eaton-contact-blocks-mcad-drawings-hs-dile.dwg</a>                                                                                                                                                           |
| WIRING DIAGRAMS            | <a href="#">eaton-contactors-contact-dila-accessory-wiring-diagram-006.eps</a>                                                                                                                                                                            |

|                 |
|-----------------|
| PROJECT NAME:   |
| PROJECT NUMBER: |
| PREPARED BY:    |
| DATE:           |



**Eaton Corporation plc** Eaton House  
30 Pembroke Road  
Dublin 4, Ireland  
Eaton.com

© 2026 Eaton. All Rights Reserved.

Follow us on social media to get the latest product and support information.

