

# Specifications



Photo is representative



## Eaton 277764

Eaton Moeller® series DILM Contactor, 3 pole, 380 V 400 V 18.5 kW, 190 V 50 Hz, 220 V 60 Hz, AC operation, Screw terminals

### General specifications

|                             |                                                                                                                                                                                                                                                                                                 |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton Moeller® series DILM contactor                                                                                                                                                                                                                                                            |
| <b>CATALOG NUMBER</b>       | 277764                                                                                                                                                                                                                                                                                          |
| <b>MODEL CODE</b>           | DILM40(190V50HZ,220V60HZ)                                                                                                                                                                                                                                                                       |
| <b>EAN</b>                  | 4015082777647                                                                                                                                                                                                                                                                                   |
| <b>PRODUCT LENGTH/DEPTH</b> | 132.1 mm                                                                                                                                                                                                                                                                                        |
| <b>PRODUCT HEIGHT</b>       | 115 mm                                                                                                                                                                                                                                                                                          |
| <b>PRODUCT WIDTH</b>        | 55 mm                                                                                                                                                                                                                                                                                           |
| <b>PRODUCT WEIGHT</b>       | 0.872 kg                                                                                                                                                                                                                                                                                        |
| <b>CERTIFICATIONS</b>       | CSA Certified<br>UL Listed<br>IEC 60947-4-1<br>EN 60947-4-1<br>CSA File No.: 012528<br>IEC/EN 60947<br>CSA Class No.: 2411-03, 3211-04<br>IEC/EN 60947-4-1<br>VDE 0660<br>UL File No.: E29096<br>CSA<br>CSA-C22.2 No. 60947-4-1-14<br>UL 60947-4-1<br>UL Category Control No.: NLDX<br>CE<br>UL |
| <b>CATALOG NOTES</b>        | Contacts according to EN 50012                                                                                                                                                                                                                                                                  |
| <b>PRODUCT TYPE</b>         | Contactors                                                                                                                                                                                                                                                                                      |

## Features Functions

|                        |            |
|------------------------|------------|
| <b>NUMBER OF POLES</b> | Three-pole |
|------------------------|------------|

## General

|                                               |                                                                                                                                                                                                                           |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>APPLICATION</b>                            | Contactors for Motors                                                                                                                                                                                                     |
| <b>FRAME SIZE</b>                             | FS3                                                                                                                                                                                                                       |
| <b>LIFESPAN, MECHANICAL</b>                   | 10,000,000 Operations (AC operated)                                                                                                                                                                                       |
| <b>CONNECTION</b>                             | Screw terminals                                                                                                                                                                                                           |
| <b>OPERATING FREQUENCY</b>                    | 5000 mechanical Operations/h (AC operated)                                                                                                                                                                                |
| <b>OVERVOLTAGE CATEGORY</b>                   | III                                                                                                                                                                                                                       |
| <b>POLLUTION DEGREE</b>                       | 3                                                                                                                                                                                                                         |
| <b>PRODUCT CATEGORY</b>                       | Contactors                                                                                                                                                                                                                |
| <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> | 8000 V AC                                                                                                                                                                                                                 |
| <b>RESISTANCE PER POLE</b>                    | 1.9 mΩ                                                                                                                                                                                                                    |
| <b>SUITABLE FOR</b>                           | Also motors with efficiency class IE3                                                                                                                                                                                     |
| <b>TYPE</b>                                   | Full voltage non-reversing medium contactor                                                                                                                                                                               |
| <b>USED WITH</b>                              | Can be combined with auxiliary contacts: DILM150-XHI(V), DILM1000-XHI(V)                                                                                                                                                  |
| <b>UTILIZATION CATEGORY</b>                   | AC-3: Normal AC induction motors: starting, switch off during running<br>AC-4: Normal AC induction motors: starting, plugging, reversing, inching<br>AC-1: Non-inductive or slightly inductive loads, resistance furnaces |
| <b>VOLTAGE TYPE</b>                           | AC                                                                                                                                                                                                                        |

## Ambient conditions, mechanical

### SHOCK RESISTANCE

7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms  
7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms  
5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms  
5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms  
10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms  
10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms

## Climatic environmental conditions

|                                                       |                                                                                |
|-------------------------------------------------------|--------------------------------------------------------------------------------|
| <b>ALTITUDE</b>                                       | Max. 2000 m                                                                    |
| <b>AMBIENT OPERATING TEMPERATURE - MIN</b>            | -25 °C                                                                         |
| <b>AMBIENT OPERATING TEMPERATURE - MAX</b>            | 60 °C                                                                          |
| <b>AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN</b> | -25 °C                                                                         |
| <b>AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX</b> | 40 °C                                                                          |
| <b>AMBIENT STORAGE TEMPERATURE - MIN</b>              | -40 °C                                                                         |
| <b>AMBIENT STORAGE TEMPERATURE - MAX</b>              | 80 °C                                                                          |
| <b>CLIMATIC PROOFING</b>                              | Damp heat, cyclic, to IEC 60068-2-30<br>Damp heat, constant, to IEC 60068-2-78 |

## Electro magnetic compatibility

**EMITTED INTERFERENCE** According to EN 60947-1

**INTERFERENCE IMMUNITY** According to EN 60947-1

## Terminal capacities

|                                                  |                                                                                                                                                                                                                          |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>TERMINALS</b>                                 | Screw terminals                                                                                                                                                                                                          |
| <b>TERMINAL CAPACITY (COPPER BAND)</b>           | 2 x (6 x 9 x 0.8) mm<br>(Number of segments x width x thickness), Main cables                                                                                                                                            |
| <b>TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)</b> | 1 x (0.75 - 2.5) mm <sup>2</sup> , Control circuit cables<br>2 x (0.75 - 25) mm <sup>2</sup> , Main cables<br>2 x (0.75 - 2.5) mm <sup>2</sup> , Control circuit cables<br>1 x (0.75 - 35) mm <sup>2</sup> , Main cables |
| <b>TERMINAL CAPACITY (SOLID)</b>                 | 2 x (0.75 - 2.5) mm <sup>2</sup> , Control circuit cables<br>1 x (0.75 - 4) mm <sup>2</sup> , Control circuit cables<br>1 x (0.75 - 16) mm <sup>2</sup> , Main cables<br>2 x (0.75 - 16) mm <sup>2</sup> , Main cables   |
| <b>TERMINAL CAPACITY (SOLID/STRANDED AWG)</b>    | 18 - 14, Control circuit cables<br>Single 14 - 1, double 14 - 2, Main cables                                                                                                                                             |

|                                                         |                                                                                                              |
|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>TERMINAL CAPACITY<br/>(STRANDED)</b>                 | 2 x (16 - 35) mm <sup>2</sup> , Main<br>cables<br>1 x (16 - 50) mm <sup>2</sup> , Main<br>cables             |
| <b>STRIPPING LENGTH<br/>(MAIN CABLE)</b>                | 14 mm                                                                                                        |
| <b>STRIPPING LENGTH<br/>(CONTROL CIRCUIT<br/>CABLE)</b> | 10 mm                                                                                                        |
| <b>SCREW SIZE</b>                                       | M6, Terminal screw, Main<br>cables<br>M3.5, Terminal screw,<br>Control circuit cables                        |
| <b>SCREWDRIVER SIZE</b>                                 | 0.8 x 5.5/1 x 6 mm,<br>Terminal screw, Standard<br>screwdriver<br>2, Terminal screw, Pozidriv<br>screwdriver |
| <b>TIGHTENING TORQUE</b>                                | 1.2 Nm, Screw terminals,<br>Control circuit cables<br>3.3 Nm, Screw terminals,<br>Main cables                |

## Electrical rating

|                                                                    |       |
|--------------------------------------------------------------------|-------|
| <b>RATED BREAKING CAPACITY AT 220/230 V</b>                        | 400 A |
| <b>RATED BREAKING CAPACITY AT 380/400 V</b>                        | 400 A |
| <b>RATED BREAKING CAPACITY AT 500 V</b>                            | 400 A |
| <b>RATED BREAKING CAPACITY AT 660/690 V</b>                        | 250 A |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-1, 380 V, 400 V, 415 V</b> | 60 A  |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V</b> | 40 A  |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V</b> | 40 A  |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 440 V</b>               | 40 A  |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V</b>               | 40 A  |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V</b>        | 25 A  |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-4, 220 V, 230 V, 240 V</b> | 18 A  |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-4, 440 V</b>               | 18 A  |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V</b>               | 18 A  |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-4, 660 V, 690 V</b>        | 14 A  |
| <b>RATED OPERATIONAL CURRENT (IE) AT DC-1, 60 V</b>                | 50 A  |
| <b>RATED OPERATIONAL CURRENT (IE) AT DC-1, 110 V</b>               | 50 A  |
| <b>RATED OPERATIONAL CURRENT (IE) AT DC-1, 220 V</b>               | 45 A  |
| <b>RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947)</b> | 560 A |

## Short-circuit rating

|                                                                       |                                                                                       |
|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>SHORT-CIRCUIT CURRENT RATING (BASIC RATING)</b>                    | 5 kA, 250 A max. fuse, SCCR (UL/CSA)<br>5 kA, 250 A max. CB, SCCR (UL/CSA)            |
| <b>SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 480 V)</b>             | 100 kA, 150 A CLASS J max. fuse, SCCR (UL/CSA)<br>65 kA, 100 A max. CB, SCCR (UL/CSA) |
| <b>SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 600 V)</b>             | 100 kA, 150 A CLASS J max. fuse, SCCR (UL/CSA)                                        |
| <b>SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 400 V</b> | 125 A gG/gL                                                                           |
| <b>SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 690 V</b> | 80 A gG/gL                                                                            |
| <b>SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 400 V</b> | 63 A gG/gL                                                                            |
| <b>SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 690 V</b> | 50 A gG/gL                                                                            |

|                                                                  |         |
|------------------------------------------------------------------|---------|
| <b>RATED OPERATIONAL<br/>POWER AT AC-3, 240 V, 50<br/>HZ</b>     | 13.5 kW |
| <b>RATED OPERATIONAL<br/>POWER AT AC-3, 380/400<br/>V, 50 HZ</b> | 18.5 kW |
| <b>RATED OPERATIONAL<br/>POWER AT AC-3, 415 V, 50<br/>HZ</b>     | 24 kW   |
| <b>RATED OPERATIONAL<br/>POWER AT AC-3, 440 V, 50<br/>HZ</b>     | 25 kW   |
| <b>RATED OPERATIONAL<br/>POWER AT AC-3, 500 V, 50<br/>HZ</b>     | 28 kW   |
| <b>RATED OPERATIONAL<br/>POWER AT AC-3, 690 V, 50<br/>HZ</b>     | 23 kW   |
| <b>RATED OPERATIONAL<br/>POWER AT AC-4, 220/230<br/>V, 50 HZ</b> | 5 kW    |
| <b>RATED OPERATIONAL<br/>POWER AT AC-4, 240 V, 50<br/>HZ</b>     | 5.5 kW  |
| <b>RATED OPERATIONAL<br/>POWER AT AC-4, 415 V, 50<br/>HZ</b>     | 9.5 kW  |
| <b>RATED OPERATIONAL<br/>POWER AT AC-4, 440 V, 50<br/>HZ</b>     | 10 kW   |
| <b>RATED OPERATIONAL<br/>POWER AT AC-4, 500 V, 50<br/>HZ</b>     | 11 kW   |
| <b>RATED OPERATIONAL<br/>POWER AT AC-4, 660/690<br/>V, 50 HZ</b> | 12 kW   |
| <b>RATED OPERATIONAL<br/>VOLTAGE (UE) AT AC -<br/>MAX</b>        | 690 V   |
| <b>RATED INSULATION<br/>VOLTAGE (UI)</b>                         | 690 V   |

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

|                                                                               |       |
|-------------------------------------------------------------------------------|-------|
| <b>CONVENTIONAL<br/>THERMAL CURRENT I<sub>TH</sub><br/>(1-POLE, ENCLOSED)</b> | 112 A |
|-------------------------------------------------------------------------------|-------|

|                                                                               |      |
|-------------------------------------------------------------------------------|------|
| <b>CONVENTIONAL<br/>THERMAL CURRENT I<sub>TH</sub><br/>(3-POLE, ENCLOSED)</b> | 45 A |
|-------------------------------------------------------------------------------|------|

|                                                                                   |      |
|-----------------------------------------------------------------------------------|------|
| <b>CONVENTIONAL<br/>THERMAL CURRENT I<sub>TH</sub><br/>AT 55°C (3-POLE, OPEN)</b> | 55 A |
|-----------------------------------------------------------------------------------|------|

|                                                                                                 |       |
|-------------------------------------------------------------------------------------------------|-------|
| <b>CONVENTIONAL<br/>THERMAL CURRENT I<sub>TH</sub><br/>OF MAIN CONTACTS (1-<br/>POLE, OPEN)</b> | 125 A |
|-------------------------------------------------------------------------------------------------|-------|

## Switching capacity

|                                                                |                                        |
|----------------------------------------------------------------|----------------------------------------|
| <b>SWITCHING CAPACITY<br/>(MAIN CONTACTS,<br/>GENERAL USE)</b> | 63 A, Maximum motor<br>rating (UL/CSA) |
|----------------------------------------------------------------|----------------------------------------|

## Magnet system

|                                                                         |                                                                                                                                                                  |
|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ARCING TIME</b>                                                      | 10 ms                                                                                                                                                            |
| <b>DROP-OUT VOLTAGE</b>                                                 | AC operated: 0.6 - 0.3 x U <sub>c</sub> , AC operated                                                                                                            |
| <b>DUTY FACTOR</b>                                                      | 100 %                                                                                                                                                            |
| <b>PICK-UP VOLTAGE</b>                                                  | 0.8 - 1.1 V AC x U <sub>c</sub>                                                                                                                                  |
| <b>POWER CONSUMPTION</b>                                                | 18.5 kW                                                                                                                                                          |
| <b>POWER CONSUMPTION, PICK-UP, 50 HZ</b>                                | 149 VA, Dual-frequency coil in a cold state and 1.0 x U <sub>s</sub> , at 50 Hz                                                                                  |
| <b>POWER CONSUMPTION, PICK-UP, 60 HZ</b>                                | 178 VA, Dual-frequency coil in a cold state and 1.0 x U <sub>s</sub> , at 60 Hz                                                                                  |
| <b>POWER CONSUMPTION, SEALING, 50 HZ</b>                                | 16 VA, Dual-frequency coil in a cold state and 1.0 x U <sub>s</sub> , at 50 Hz<br>4.1 W, Dual-frequency coil in a cold state and 1.0 x U <sub>s</sub> , at 50 Hz |
| <b>POWER CONSUMPTION, SEALING, 60 HZ</b>                                | 19 VA, Dual-frequency coil in a cold state and 1.0 x U <sub>s</sub> , at 60 Hz<br>4.1 W, Dual-frequency coil in a cold state and 1.0 x U <sub>s</sub> , at 60 Hz |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN</b>             | 190 V                                                                                                                                                            |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX</b>             | 190 V                                                                                                                                                            |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN</b>             | 220 V                                                                                                                                                            |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX</b>             | 220 V                                                                                                                                                            |
| <b>SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN</b> | 12 ms                                                                                                                                                            |
| <b>SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX</b> | 18 ms                                                                                                                                                            |
| <b>SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN</b> | 8 ms                                                                                                                                                             |
| <b>SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING</b>              | 13 ms                                                                                                                                                            |

## Motor rating

|                                           |        |
|-------------------------------------------|--------|
| <b>ASSIGNED MOTOR</b>                     |        |
| <b>POWER AT 115/120 V, 60 HZ, 1-PHASE</b> | 3 HP   |
| <b>ASSIGNED MOTOR</b>                     |        |
| <b>POWER AT 200/208 V, 60 HZ, 3-PHASE</b> | 10 HP  |
| <b>ASSIGNED MOTOR</b>                     |        |
| <b>POWER AT 230/240 V, 60 HZ, 1-PHASE</b> | 7.5 HP |
| <b>ASSIGNED MOTOR</b>                     |        |
| <b>POWER AT 230/240 V, 60 HZ, 3-PHASE</b> | 15 HP  |
| <b>ASSIGNED MOTOR</b>                     |        |
| <b>POWER AT 460/480 V, 60 HZ, 3-PHASE</b> | 30 HP  |
| <b>ASSIGNED MOTOR</b>                     |        |
| <b>POWER AT 575/600 V, 60 HZ, 3-PHASE</b> | 40 HP  |

|                     |                       |
|---------------------|-----------------------|
| <b>DELAY) - MAX</b> |                       |
| <b>COIL VOLTAGE</b> | 190-220 Vac, 50/60 Hz |

| Communication                     |    |
|-----------------------------------|----|
| <b>CONNECTION TO SMARTWIRE-DT</b> | No |

| Safety                |                                                                                                                     |
|-----------------------|---------------------------------------------------------------------------------------------------------------------|
| <b>SAFE ISOLATION</b> | 440 V AC, Between coil and contacts, According to EN 61140<br>440 V AC, Between the contacts, According to EN 61140 |

| Contacts                                                       |   |
|----------------------------------------------------------------|---|
| <b>NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)</b> | 0 |
| <b>NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)</b>   | 0 |

| Special purpose ratings                                             |                                                                                                                                                                                                                                                                                                     |
|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SPECIAL PURPOSE RATING OF BALLAST ELECTRICAL DISCHARGE LAMPS</b> | 79 A (480V 60Hz 3phase, 277V 60Hz 1phase)<br>79 A (600V 60Hz 3phase, 347V 60Hz 1phase)                                                                                                                                                                                                              |
| <b>SPECIAL PURPOSE RATING OF ELEVATOR CONTROL</b>                   | 7.5 HP, 200 V 60 Hz 3-ph, (UL/CSA)<br>28 A, 240 V 60 Hz 3-ph, (UL/CSA)<br>30 HP, 600 V 60 Hz 3-ph, (UL/CSA)<br>32 A, 600 V 60 Hz 3-ph, (UL/CSA)<br>10 HP, 240 V 60 Hz 3-ph, (UL/CSA)<br>25.3 A, 200 V 60 Hz 3-ph, (UL/CSA)<br>25 HP, 480 V 60 Hz 3-ph, (UL/CSA)<br>34 A, 480 V 60 Hz 3-ph, (UL/CSA) |
| <b>SPECIAL PURPOSE RATING OF RESISTANCE AIR HEATING</b>             | 79 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA)<br>79 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA)                                                                                                                                                                                    |
| <b>SPECIAL PURPOSE RATING OF TUNGSTEN INCANDESCENT LAMPS</b>        | 74 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA)<br>74 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA)                                                                                                                                                                                    |

## Design verification

|                                                                                         |                                                                    |
|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| <b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>                               | 6.6 W                                                              |
| <b>HEAT DISSIPATION CAPACITY PDISS</b>                                                  | 0 W                                                                |
| <b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>                                | 2.2 W                                                              |
| <b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>                    | 40 A                                                               |
| <b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>                               | 4.1 W                                                              |
| <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. |

## Resources

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CATALOGS                   | <a href="#">eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf</a>                                                                                                                                                                                                                                                                                                                                                                         |
| CHARACTERISTIC CURVE       | <a href="#">eaton-contactors-switch-dilm-characteristic-curve.eps</a><br><a href="#">eaton-contactors-switch-dilm-characteristic-curve-002.eps</a><br><a href="#">eaton-contactors-component-dilm-characteristic-curve-003.eps</a>                                                                                                                                                                                                                             |
| DECLARATIONS OF CONFORMITY | <a href="#">eaton-contactor-declaration-of-conformity-uk251225en.pdf</a><br><a href="#">eaton-contactor-declaration-of-conformity-eu250742en.pdf</a>                                                                                                                                                                                                                                                                                                           |
| DRAWINGS                   | <a href="#">eaton-contactors-mounting-dilm-dimensions-002.eps</a><br><a href="#">eaton-contactors-mounting-dilm-dimensions.eps</a><br><a href="#">eaton-contactors-dilm-dimensions-012.eps</a><br><a href="#">eaton-contactors-dilm-dimensions-002.eps</a><br><a href="#">eaton-contactors-mounting-dilm-3d-drawing.eps</a><br><a href="#">eaton-general-ie-ready-dilm-contactor-standards.eps</a><br><a href="#">eaton-contactors-dilm-3d-drawing-011.eps</a> |
| ECAD MODEL                 | <a href="#">ETN.277764.edz</a>                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| INSTALLATION INSTRUCTIONS  | <a href="#">IL03407033Z</a>                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| INSTALLATION VIDEOS        | <a href="#">WIN-WIN with push-in technology</a>                                                                                                                                                                                                                                                                                                                                                                                                                |
| MCAD MODEL                 | <a href="#">DA-CS-dil_m40_72</a><br><a href="#">eaton-iec-contactors-mcad-drawings-dil-m40-72.dwg</a>                                                                                                                                                                                                                                                                                                                                                          |

|                                                                 |                                                                                                                                  |
|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <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>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.                         |

|                               |                                                                      |
|-------------------------------|----------------------------------------------------------------------|
| PEP ECO-PASSPORT              | <a href="#">eaton-iec-contactors-pep-eato-00126-v0101-en.pdf</a>     |
| SPECIFICATIONS AND DATASHEETS | <a href="#">Eaton Specification Sheet - 277764</a>                   |
| SYSTEM OVERVIEW               | <a href="#">eaton-contactors-dilm-contactor-system-overview.eps</a>  |
| WIRING DIAGRAMS               | <a href="#">eaton-contactors-contact-dilm-wiring-diagram-003.eps</a> |

**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATE:**



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