

# Specifications



## Eaton 274195

Eaton Moeller® series DILM Contactor, 380 V 400 V 212 kW, 2 N/O, 2 NC, 110 - 120 V 50/60 Hz, AC operation, Screw connection

### General specifications

|                             |                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton Moeller® series DILM Contactor                                                                                                                                                                                                                                                                                                        |
| <b>CATALOG NUMBER</b>       | 274195                                                                                                                                                                                                                                                                                                                                      |
| <b>MODEL CODE</b>           | DILM400-S/22(110-120V50/60HZ)                                                                                                                                                                                                                                                                                                               |
| <b>EAN</b>                  | 4015082741952                                                                                                                                                                                                                                                                                                                               |
| <b>PRODUCT LENGTH/DEPTH</b> | 216 mm                                                                                                                                                                                                                                                                                                                                      |
| <b>PRODUCT HEIGHT</b>       | 209 mm                                                                                                                                                                                                                                                                                                                                      |
| <b>PRODUCT WIDTH</b>        | 160 mm                                                                                                                                                                                                                                                                                                                                      |
| <b>PRODUCT WEIGHT</b>       | 8.5 kg                                                                                                                                                                                                                                                                                                                                      |
| <b>COMPLIANCES</b>          | CE Marked                                                                                                                                                                                                                                                                                                                                   |
| <b>CERTIFICATIONS</b>       | VDE 0660<br>UL 60947-4-1<br>UL File No.: E29096<br>UL Category Control No.: NLDX<br>IEC/EN 60947-4-1<br>CSA Class No.: 3211-04<br>UL/CSA<br>CSA file No. 012528<br>North America (UL listed, CSA certified)<br>EN 45545: Fire protection on railway vehicles<br>IEC 61373: Vibration and shock, tested for category 1 class B<br>CE marking |

### CATALOG NOTES

- Contacts according to EN 50012
- Also tested according to AC-3e up to 500 V.
- Also suitable for motors with efficiency class IE3.
- EN 45545 - Fire protection on

- railway vehicles:  
Fire protection  
class of all plastics  
according to UL94:  
V-0 / plastic weight  
in total: 2.576 kg
- Conventional  
thermal current Ith  
of main contacts (1-  
pole, open) at 60°

## AC-1/Conventional thermal current Ith

**CONVENTIONAL  
THERMAL CURRENT ITH  
(1-POLE, ENCLOSED)** 1125 A

**CONVENTIONAL  
THERMAL CURRENT ITH  
(3-POLE, ENCLOSED)** 450 A

**CONVENTIONAL  
THERMAL CURRENT ITH  
AT 40°C (3-POLE, OPEN)** 612 A

**CONVENTIONAL  
THERMAL CURRENT ITH  
AT 50°C (3-POLE, OPEN)** 548 A

**CONVENTIONAL  
THERMAL CURRENT ITH  
AT 55°C (3-POLE, OPEN)** 522 A

**CONVENTIONAL  
THERMAL CURRENT ITH  
AT 60°C (3-POLE, OPEN)** 500 A

**CONVENTIONAL  
THERMAL CURRENT ITH  
OF MAIN CONTACTS (1-  
POLE, OPEN)** 1250 A

## Contacts

**NUMBER OF AUXILIARY  
CONTACTS (NORMALLY  
CLOSED CONTACTS)** 2

**NUMBER OF AUXILIARY  
CONTACTS (NORMALLY  
OPEN CONTACTS)** 2

**NUMBER OF CONTACTS  
(NORMALLY CLOSED  
CONTACTS)** 2

**NUMBER OF CONTACTS  
(NORMALLY OPEN  
CONTACTS)** 2

## Climatic environmental conditions

**ALTITUDE** Max. 2000 m

**AMBIENT OPERATING  
TEMPERATURE - MAX** 60 °C

**AMBIENT STORAGE  
TEMPERATURE - MAX** 80 °C

**AMBIENT OPERATING  
TEMPERATURE - MIN** -40 °C

**AMBIENT OPERATING  
TEMPERATURE  
(ENCLOSED) - MAX** 40 °C

**AMBIENT OPERATING  
TEMPERATURE  
(ENCLOSED) - MIN** -40 °C

**AMBIENT STORAGE  
TEMPERATURE - MIN** -40 °C

**CLIMATIC PROOFING** Damp heat, constant, to  
IEC 60068-2-78  
Damp heat, cyclic, to IEC  
60068-2-30

## Design verification

**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.

|                                                                                         |                                                                                                          |
|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| <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</b>                                             | Is the panel builder's responsibility.                                                                   |

|                                                                      |         |
|----------------------------------------------------------------------|---------|
| <b>INSULATING MATERIAL</b>                                           |         |
| <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>             | 12.33 W |
| <b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b> | 400 A   |
| <b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>            | 4.6 W   |

## Electrical rating

|                                                                    |                                                                                                                                                        |
|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>INRUSH CURRENT</b>                                              | Max. 30 x I <sub>e</sub> (peak)                                                                                                                        |
| <b>RATED BREAKING CAPACITY AT 1000 V</b>                           | 950 A                                                                                                                                                  |
| <b>RATED BREAKING CAPACITY AT 220/230 V</b>                        | 5000 A                                                                                                                                                 |
| <b>RATED BREAKING CAPACITY AT 380/400 V</b>                        | 5000 A                                                                                                                                                 |
| <b>RATED BREAKING CAPACITY AT 500 V</b>                            | 5000 A                                                                                                                                                 |
| <b>RATED BREAKING CAPACITY AT 660/690 V</b>                        | 5000 A                                                                                                                                                 |
| <b>RATED INSULATION VOLTAGE (UI)</b>                               | 1000 V                                                                                                                                                 |
| <b>RATED MAKING CAPACITY (COS PHI TO IEC/EN 60947)</b>             | 5500 A                                                                                                                                                 |
| <b>RATED OPERATIONAL CURRENT (IE)</b>                              | 307 A at up to 525 V (Individual compensation, three-phase capacitors, open)<br>177 A at 690 V (Individual compensation, three-phase capacitors, open) |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 1000 V</b>              | 95 A                                                                                                                                                   |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V</b> | 400 A                                                                                                                                                  |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V</b> | 400 A                                                                                                                                                  |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 440 V</b>               | 400 A                                                                                                                                                  |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V</b>               | 400 A                                                                                                                                                  |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V</b>        | 325 A                                                                                                                                                  |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-4, 1000 V</b>              | 95 A                                                                                                                                                   |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-4, 220 V, 230 V, 240 V</b> | 296 A                                                                                                                                                  |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-4, 440 V</b>               | 296 A                                                                                                                                                  |

## General information

|                                               |                                                                                                                                                                                       |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ACCESSORIES</b>                            | Fitting options auxiliary contacts: on the side: 2 x DILM820-XHI11(V)-SI; 2 x DILM820-XHI11-SA                                                                                        |
| <b>APPLICATION</b>                            | Contactors for Motors                                                                                                                                                                 |
| <b>CONNECTION</b>                             | Screw terminals                                                                                                                                                                       |
| <b>DEGREE OF PROTECTION</b>                   | IP00                                                                                                                                                                                  |
| <b>ELECTROMAGNETIC COMPATIBILITY</b>          | Designed for operation in industrial environments. Its use in residential environments may cause radio-frequency interference, requiring additional noise suppression.                |
| <b>FITTED WITH:</b>                           | Suppressor circuit in actuating electronics                                                                                                                                           |
| <b>LIFESPAN, ELECTRICAL</b>                   | 100,000 Operations (at Condensor operation)                                                                                                                                           |
| <b>LIFESPAN, MECHANICAL</b>                   | 7,000,000 Operations (AC operated)                                                                                                                                                    |
| <b>OPERATING FREQUENCY</b>                    | 200 Operations/h<br>2000 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 with terminal shroud or terminal block, Protection against direct contact when actuated from front (EN 50274)                                           |
| <b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b> | 8000 V AC                                                                                                                                                                             |
| <b>RESISTANCE</b>                             | 500 mΩ (Admissible transitional contact resistance - of the external control circuit device when actuating A11)                                                                       |
| <b>SHOCK RESISTANCE</b>                       | 8 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms<br>10 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half- |

|                                                             |                                                    |
|-------------------------------------------------------------|----------------------------------------------------|
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V</b>        | 296 A                                              |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-4, 660 V, 690 V</b> | 260 A                                              |
| <b>RATED OPERATIONAL POWER AT AC-3, 1000 V, 50 HZ</b>       | 132 kW                                             |
| <b>RATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ</b>        | 132 kW                                             |
| <b>RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ</b>    | 200 kW                                             |
| <b>RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ</b>        | 232 kW                                             |
| <b>RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ</b>        | 250 kW                                             |
| <b>RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ</b>        | 280 kW                                             |
| <b>RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ</b>        | 300 kW                                             |
| <b>RATED OPERATIONAL POWER AT AC-4, 1000 V, 50 HZ</b>       | 132 kW                                             |
| <b>RATED OPERATIONAL POWER AT AC-4, 220/230 V, 50 HZ</b>    | 92 kW                                              |
| <b>RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ</b>        | 100 kW                                             |
| <b>RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ</b>        | 176 kW                                             |
| <b>RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ</b>        | 186 kW                                             |
| <b>RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ</b>        | 210 kW                                             |
| <b>RATED OPERATIONAL POWER AT AC-4, 660/690 V, 50 HZ</b>    | 240 kW                                             |
| <b>RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX</b>           | 1000 V                                             |
| <b>SAFE ISOLATION</b>                                       | 1000 V AC, Between coil and contacts, According to |

|                             |                                                                                                                                                                                                                           |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                             | sinusoidal shock 10 ms<br>10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms                                                                                                 |
| <b>UTILIZATION CATEGORY</b> | AC-1: Non-inductive or slightly inductive loads, resistance furnaces<br>AC-3: Normal AC induction motors: starting, switch off during running<br>AC-4: Normal AC induction motors: starting, plugging, reversing, inching |
| <b>VOLTAGE TYPE</b>         | AC                                                                                                                                                                                                                        |

|                                                                  | EN 61140                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SPECIAL PURPOSE<br/>RATING OF DEFINITE<br/>PURPOSE RATING</b> | 550 A, FLA 480 V 60 Hz 3-<br>ph, 100,000 cycles acc. to<br>UL 1995, (UL/CSA)<br>420 A, FLA 600 V 60 Hz 3-<br>ph, 100,000 cycles acc. to<br>UL 1995, (UL/CSA)<br>3300 A, LRA 480 V 60 Hz 3-<br>ph, 100,000 cycles acc. to<br>UL 1995, (UL/CSA)<br>3120 A, LRA 600 V 60 Hz 3-<br>ph, 100,000 cycles acc. to<br>UL 1995, (UL/CSA) |

## Magnet system

### BEHAVIOR IN MARGINAL AND TRANSITIONAL CONDITIONS

Sealing - Voltage interruptions 0 - 0.2 x  $U_c$  min) > 10 ms: Drop-out of the contactor  
 Sealing - Pick-up phase (0.7 x  $U_c$  min - 1.15 x  $U_c$  max): Contactor switches on with certainty  
 Sealing - Voltage drops (0.2 - 0.6 x  $U_c$  min ≤ 12 ms: Time is bridged successfully  
 Sealing - Voltage drops (0.6 - 0.7 x  $U_c$  min: Contactor remains switched on  
 Sealing - Voltage drops (0.2 - 0.6 x  $U_c$  min) > 12 ms: Drop-out of the contactor  
 Sealing - Voltage interruptions (0 - 0.2 x  $U_c$  min ≤ 10 ms: Time is bridged successfully  
 Sealing - Excess voltage (1.15 - 1.3 x  $U_c$  max): Contactor remains switched on  
 Sealing - Pick-up phase (0 - 0.7 x  $U_c$  min: Contactor does not switch on

### DROP-OUT VOLTAGE

AC operated: 0.2 x  $U_S$  max - 0.4 x  $U_S$  min, AC operated  
 AC operated: 0.25 x  $U_S$  max - 0.6 x  $U_S$  min, AC operated

### DUTY FACTOR

100 %

### PICK-UP VOLTAGE

0.85 - 1.1 V AC x  $U_S$

### POWER CONSUMPTION

Control transformer with  $u_k \leq 10\%$

### POWER CONSUMPTION, PICK-UP, 50 HZ

645 W, Pull-in power, Coil in a cold state and 1.0 x  $U_S$   
 715 VA, Pull-in power, Coil in a cold state and 1.0 x  $U_S$

### POWER CONSUMPTION, PICK-UP, 60 HZ

645 W, Pull-in power, Coil in a cold state and 1.0 x  $U_S$   
 715 VA, Pull-in power, Coil in a cold state and 1.0 x  $U_S$

### POWER CONSUMPTION, SEALING, 50 HZ

7.3 VA, Coil in a cold state and 1.0 x  $U_S$   
 4.6 W, Coil in a cold state and 1.0 x  $U_S$

## Motor rating

### ASSIGNED MOTOR

**POWER AT 200/208 V, 60 HZ, 3-PHASE** 125 HP

### ASSIGNED MOTOR

**POWER AT 230/240 V, 60 HZ, 3-PHASE** 150 HP

### ASSIGNED MOTOR

**POWER AT 460/480 V, 60 HZ, 3-PHASE** 300 HP

### ASSIGNED MOTOR

**POWER AT 575/600 V, 60 HZ, 3-PHASE** 400 HP

|                                                                                     |                                                                                             |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| <b>POWER CONSUMPTION,<br/>SEALING, 60 HZ</b>                                        | 7.3 VA, Coil in a cold state<br>and 1.0 x Us<br>4.6 W, Coil in a cold state<br>and 1.0 x Us |
| <b>RATED CONTROL SUPPLY<br/>VOLTAGE (US) AT AC, 50<br/>HZ - MAX</b>                 | 120 V                                                                                       |
| <b>RATED CONTROL SUPPLY<br/>VOLTAGE (US) AT AC, 50<br/>HZ - MIN</b>                 | 110 V                                                                                       |
| <b>RATED CONTROL SUPPLY<br/>VOLTAGE (US) AT AC, 60<br/>HZ - MAX</b>                 | 120 V                                                                                       |
| <b>RATED CONTROL SUPPLY<br/>VOLTAGE (US) AT AC, 60<br/>HZ - MIN</b>                 | 110 V                                                                                       |
| <b>SWITCHING TIME (AC<br/>OPERATED, MAKE<br/>CONTACTS, CLOSING<br/>DELAY) - MAX</b> | 55 ms                                                                                       |
| <b>SWITCHING TIME (AC<br/>OPERATED, MAKE<br/>CONTACTS, OPENING<br/>DELAY) - MAX</b> | 50 ms                                                                                       |

## Short-circuit rating

|                                                                        |                                                                                                                                              |
|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SHORT-CIRCUIT CURRENT RATING (BASIC RATING)</b>                     | 600 A, max. CB, SCCR (UL/CSA)<br>30 kA, SCCR (UL/CSA)<br>800 A, max. Fuse, SCCR (UL/CSA)                                                     |
| <b>SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 480 V)</b>              | 100 kA, CB, SCCR (UL/CSA)<br>600 A, max. CB, SCCR (UL/CSA)<br>30/100 kA, Fuse, SCCR (UL/CSA)<br>800/600 A, Class J, max. Fuse, SCCR (UL/CSA) |
| <b>SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 600 V)</b>              | 30/100 kA, Fuse, SCCR (UL/CSA)<br>800/600 A, Class J, max. Fuse, SCCR (UL/CSA)<br>30 kA, CB, SCCR (UL/CSA)<br>600 A, max. CB, SCCR (UL/CSA)  |
| <b>SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 1000 V</b> | 250 A gG/gL                                                                                                                                  |
| <b>SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 400 V</b>  | 630 A gG/gL                                                                                                                                  |
| <b>SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 690 V</b>  | 630 A gG/gL                                                                                                                                  |
| <b>SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 1000 V</b> | 200 A gG/gL                                                                                                                                  |
| <b>SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 400 V</b>  | 500 A gG/gL                                                                                                                                  |
| <b>SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 690 V</b>  | 500 A gG/gL                                                                                                                                  |

## Switching capacity

|                                                             |                                                          |
|-------------------------------------------------------------|----------------------------------------------------------|
| <b>SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)</b> | 1 A, 250 V DC, (UL/CSA)<br>15 A, 600 V AC, (UL/CSA)      |
| <b>SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)</b>  | A600, AC operated (UL/CSA)<br>P300, DC operated (UL/CSA) |
| <b>SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)</b>      | 450 A, Maximum motor rating (UL/CSA)                     |

## Terminal capacities

|                                                    |                                                                                                                        |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>SCREW SIZE</b>                                  | M10, Terminal screw, Main connections<br>M3.5, Terminal screw, Control circuit cables                                  |
| <b>SCREWDRIVER SIZE</b>                            | 2, Terminal screw, Control circuit cables, Pozidriv screwdriver                                                        |
| <b>TERMINAL CAPACITY (BUSBAR)</b>                  | 25 mm width, Main connection                                                                                           |
| <b>TERMINAL CAPACITY (COPPER BAND)</b>             | Fixing with flat cable terminal or cable terminal blocks; See terminal capacity for cable terminal blocks              |
| <b>TERMINAL CAPACITY (FLEXIBLE WITH CABLE LUG)</b> | 50 - 240 mm <sup>2</sup>                                                                                               |
| <b>TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)</b>   | 2 x (0.75 - 2.5) mm <sup>2</sup> , Control circuit cables<br>1 x (0.75 - 2.5) mm <sup>2</sup> , Control circuit cables |
| <b>TERMINAL CAPACITY (SOLID)</b>                   | 1 x (0.75 - 2.5) mm <sup>2</sup> , Control circuit cables<br>2 x (0.75 - 2.5) mm <sup>2</sup> , Control circuit cables |
| <b>TERMINAL CAPACITY (SOLID/STRANDED AWG)</b>      | 2/0 - 500 MCM, Main cables<br>18 - 14, Control circuit cables                                                          |
| <b>TERMINAL CAPACITY (STRANDED WITH CABLE LUG)</b> | 70 - 240 mm <sup>2</sup>                                                                                               |
| <b>TIGHTENING TORQUE</b>                           | 24 Nm, Main cable connection screw/bolt<br>1.2 Nm, Screw terminals, Control circuit cables                             |
| <b>WIDTH ACROSS FLATS</b>                          | 16 mm                                                                                                                  |

## Resources

|                            |                                                                                                                                                                                                                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BROCHURES                  | <a href="#">eaton-product-brochure-dilmilh-power-contactors-brochure-br034010en-en-us.pdf</a>                                                                                                                                                                                                                                     |
| CHARACTERISTIC CURVE       | <a href="#">eaton-contactors-short-time-loading-dilm-characteristic-curve-002.eps</a><br><a href="#">eaton-contactors-component-dilm-characteristic-curve-003.eps</a><br><a href="#">eaton-contactors-component-dilm-characteristic-curve-002.eps</a><br><a href="#">eaton-contactors-component-dilm-characteristic-curve.eps</a> |
| DECLARATIONS OF CONFORMITY | <a href="#">eaton-contactor-declaration-of-conformity-eu250620en.pdf</a><br><a href="#">eaton-contactor-declaration-of-conformity-uk251103en.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-008.eps</a><br><a href="#">eaton-contactors-mounting-dilm-3d-drawing-002.eps</a><br><a href="#">eaton-contactors-dilm-3d-drawing-005.eps</a>   |
| ECAD MODEL                 | <a href="#">DA-CE-ETN.DILM400-S_22(110-120V50_60HZ)</a>                                                                                                                                                                                                                                                                           |
| INSTALLATION INSTRUCTIONS  | <a href="#">eaton-contactor-dilm250s-to-dilm500s-il03406005z.pdf</a>                                                                                                                                                                                                                                                              |
| MCAD MODEL                 | <a href="#">eaton-iec-contactors-mcad-drawings-dilm300-400-s22.dwg</a><br><a href="#">eaton-iec-contactors-mcad-3d-models-dilm300-400-s22.stp</a>                                                                                                                                                                                 |

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**PROJECT NAME:**

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**PROJECT NUMBER:**

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**PREPARED BY:**

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**DATE:**

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

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