

# Specifications



Photo is representative



## Eaton 208201

Eaton Moeller® series DILM Contactor, 380 V 400 V 132 kW, 2 N/O, 2 NC, RA 250: 110 - 250 V 40 - 60 Hz/110 - 350 V DC, AC and DC operation, Screw connection DILM250/22(RA250)

### General specifications

|                             |                                      |
|-----------------------------|--------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton Moeller® series DILM Contactor |
| <b>CATALOG NUMBER</b>       | 208201                               |
| <b>MODEL CODE</b>           | DILM250/22(RA250)                    |
| <b>EAN</b>                  | 4015082082017                        |
| <b>PRODUCT LENGTH/DEPTH</b> | 208 mm                               |
| <b>PRODUCT HEIGHT</b>       | 189 mm                               |
| <b>PRODUCT WIDTH</b>        | 140 mm                               |
| <b>PRODUCT WEIGHT</b>       | 7.065 kg                             |

### CERTIFICATIONS

VDE 0660  
UL 60947-4-1  
IEC/EN 60947-4-1  
UL File No.: E29096  
UL Category Control No.: NLDX  
CSA Class No.: 3211-04  
UL/CSA  
CSA File No. 1017510  
North America (UL listed, CSA certified)  
EN 45545: Fire protection on railway vehicles  
IEC 61373: Vibration and shock, tested for category 1 class B  
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

## AC-1/Conventional thermal current Ith

**CONVENTIONAL  
THERMAL CURRENT ITH  
(1-POLE, ENCLOSED)** 750 A

**CONVENTIONAL  
THERMAL CURRENT ITH  
(3-POLE, ENCLOSED)** 300 A

**CONVENTIONAL  
THERMAL CURRENT ITH  
AT 40°C (3-POLE, OPEN)** 430 A

**CONVENTIONAL  
THERMAL CURRENT ITH  
AT 50°C (3-POLE, OPEN)** 380 A

**CONVENTIONAL  
THERMAL CURRENT ITH  
AT 55°C (3-POLE, OPEN)** 365 A

**CONVENTIONAL  
THERMAL CURRENT ITH  
AT 60°C (3-POLE, OPEN)** 350 A

**CONVENTIONAL  
THERMAL CURRENT ITH  
OF MAIN CONTACTS (1-  
POLE, OPEN)** 875 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

protection on  
railway vehicles:  
Fire protection  
class of all plastics  
according to UL94:  
V-0 / plastic weight  
in total: 1.872 kg

- Conventional  
thermal current Ith  
of main contacts (1-  
pole, open) at 60°

## 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 INSULATING MATERIAL</b>      | Is the panel builder's responsibility. |
| <b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>            | 28 W                                   |
| <b>HEAT DISSIPATION CAPACITY PDISS</b>                               | 0 W                                    |
| <b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>             | 9.33 W                                 |
| <b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b> | 250 A                                  |
| <b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>            | 5.5 W                                  |

## Electrical rating

|                                                                    |                                                                                                                                                        |
|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>INRUSH CURRENT</b>                                              | Max. 30 x I <sub>e</sub> (peak)                                                                                                                        |
| <b>RATED BREAKING CAPACITY AT 1000 V</b>                           | 760 A                                                                                                                                                  |
| <b>RATED BREAKING CAPACITY AT 220/230 V</b>                        | 2500 A                                                                                                                                                 |
| <b>RATED BREAKING CAPACITY AT 380/400 V</b>                        | 2500 A                                                                                                                                                 |
| <b>RATED BREAKING CAPACITY AT 500 V</b>                            | 2500 A                                                                                                                                                 |
| <b>RATED BREAKING CAPACITY AT 660/690 V</b>                        | 2500 A                                                                                                                                                 |
| <b>RATED INSULATION VOLTAGE (UI)</b>                               | 1000 V                                                                                                                                                 |
| <b>RATED MAKING CAPACITY (COS PHI TO IEC/EN 60947)</b>             | 3000 A                                                                                                                                                 |
| <b>RATED OPERATIONAL CURRENT (IE)</b>                              | 133 A at 690 V (Individual compensation, three-phase capacitors, open)<br>220 A at up to 525 V (Individual compensation, three-phase capacitors, open) |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 1000 V</b>              | 76 A                                                                                                                                                   |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V</b> | 250 A                                                                                                                                                  |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V</b> | 250 A                                                                                                                                                  |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 440 V</b>               | 250 A                                                                                                                                                  |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V</b>               | 250 A                                                                                                                                                  |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V</b>        | 185 A                                                                                                                                                  |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-4, 1000 V</b>              | 76 A                                                                                                                                                   |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-4, 220 V, 230 V, 240 V</b> | 200 A                                                                                                                                                  |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-4, 440 V</b>               | 200 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>                   | 10,000,000 Operations (AC operated)<br>10,000,000 Operations (DC operated)                                                                                             |
| <b>OPERATING FREQUENCY</b>                    | 200 Operations/h<br>3000 mechanical Operations/h (AC operated)<br>3000 mechanical Operations/h (DC 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                                                                                                                   |

|                                                             |                                                 |
|-------------------------------------------------------------|-------------------------------------------------|
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V</b>        | 200 A                                           |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-4, 660 V, 690 V</b> | 150 A                                           |
| <b>RATED OPERATIONAL POWER AT AC-3, 1000 V, 50 HZ</b>       | 108 kW                                          |
| <b>RATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ</b>        | 85 kW                                           |
| <b>RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ</b>    | 132 kW                                          |
| <b>RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ</b>        | 143 kW                                          |
| <b>RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ</b>        | 152 kW                                          |
| <b>RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ</b>        | 173 kW                                          |
| <b>RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ</b>        | 170 kW                                          |
| <b>RATED OPERATIONAL POWER AT AC-4, 1000 V, 50 HZ</b>       | 108 kW                                          |
| <b>RATED OPERATIONAL POWER AT AC-4, 220/230 V, 50 HZ</b>    | 62 kW                                           |
| <b>RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ</b>        | 68 kW                                           |
| <b>RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ</b>        | 117 kW                                          |
| <b>RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ</b>        | 125 kW                                          |
| <b>RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ</b>        | 138 kW                                          |
| <b>RATED OPERATIONAL POWER AT AC-4, 660/690 V, 50 HZ</b>    | 137 kW                                          |
| <b>RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX</b>           | 1000 V                                          |
| <b>SAFE ISOLATION</b>                                       | 500 V AC, Between the contacts, According to EN |

|                             |                                                                                                                                                                                                                                                           |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                             | 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-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>SIGNAL LEVEL</b>         | 5 V - 15 V, PLC signal level (A3 - A4) to IEC/EN 61131-2 (type 2), Magnet systems                                                                                                                                                                         |
| <b>UTILIZATION CATEGORY</b> | AC-4: Normal AC induction motors: starting, plugging, reversing, inching<br>AC-3: Normal AC induction motors: starting, switch off during running<br>AC-1: Non-inductive or slightly inductive loads, resistance furnaces                                 |
| <b>VOLTAGE TYPE</b>         | AC/DC                                                                                                                                                                                                                                                     |

|                                                                  |                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                  | 61140<br>500 V AC, Between coil<br>and contacts, According to<br>EN 61140                                                                                                                                                                                                                                                      |
| <b>SPECIAL PURPOSE<br/>RATING OF DEFINITE<br/>PURPOSE RATING</b> | 1800 A, LRA 600 V 60 Hz 3-<br>ph, 100,000 cycles acc. to<br>UL 1995, (UL/CSA)<br>250 A, FLA 600 V 60 Hz 3-<br>ph, 100,000 cycles acc. to<br>UL 1995, (UL/CSA)<br>300 A, FLA 480 V 60 Hz 3-<br>ph, 100,000 cycles acc. to<br>UL 1995, (UL/CSA)<br>2050 A, LRA 480 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  $\leq$  10 ms: Time is bridged successfully  
 Sealing - Pick-up phase (0 - 0.7 x  $U_c$  min: Contactor does not switch on  
 Sealing - Voltage drops (0.2 - 0.6 x  $U_c$  min) > 12 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  $\leq$  12 ms: Time is bridged successfully  
 Sealing - Voltage interruptions 0 - 0.2 x  $U_c$  min) > 10 ms: Drop-out of the contactor  
 Sealing - Excess voltage (1.15 - 1.3 x  $U_c$  max): Contactor remains switched on  
 Sealing - Voltage drops (0.6 - 0.7 x  $U_c$  min: Contactor remains switched on

### DROP-OUT VOLTAGE

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

### DUTY FACTOR

100 %

### PICK-UP VOLTAGE

0.7 - 1.15 V AC x  $U_S$   
 0.7 - 1.15 V DC x  $U_S$

### POWER CONSUMPTION

Control transformer with  $u_k \leq 6\%$

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

240 VA, Pull-in power, Coil in a cold state and 1.0 x  $U_S$

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

240 VA, Pull-in power, Coil in a cold state and 1.0 x  $U_S$

### POWER CONSUMPTION, SEALING, 50 HZ

10.5 VA, Coil in a cold state and 1.0 x  $U_S$   
 0 CO, Coil in a cold state and 1.0 x  $U_S$   
 5.5 W, Coil in a cold state and 1.0 x  $U_S$

### POWER CONSUMPTION, SEALING, 60 HZ

5.5 W, Coil in a cold state and 1.0 x  $U_S$   
 10.5 VA, Coil in a cold state and 1.0 x  $U_S$

## Motor rating

### ASSIGNED MOTOR

POWER AT 200/208 V, 60 HZ, 3-PHASE 75 HP

### ASSIGNED MOTOR

POWER AT 230/240 V, 60 HZ, 3-PHASE 100 HP

### ASSIGNED MOTOR

POWER AT 460/480 V, 60 HZ, 3-PHASE 200 HP

### ASSIGNED MOTOR

POWER AT 575/600 V, 60 HZ, 3-PHASE 250 HP

|                                                                                     |        |
|-------------------------------------------------------------------------------------|--------|
| <b>RATED CONTROL SUPPLY<br/>VOLTAGE (US) AT AC, 50<br/>HZ - MAX</b>                 | 250 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>                 | 250 V  |
| <b>RATED CONTROL SUPPLY<br/>VOLTAGE (US) AT AC, 60<br/>HZ - MIN</b>                 | 110 V  |
| <b>RATED CONTROL SUPPLY<br/>VOLTAGE (US) AT DC -<br/>MAX</b>                        | 250 V  |
| <b>RATED CONTROL SUPPLY<br/>VOLTAGE (US) AT DC -<br/>MIN</b>                        | 110 V  |
| <b>SWITCHING TIME (AC<br/>OPERATED, MAKE<br/>CONTACTS, CLOSING<br/>DELAY) - MAX</b> | 100 ms |
| <b>SWITCHING TIME (AC<br/>OPERATED, MAKE<br/>CONTACTS, OPENING<br/>DELAY) - MAX</b> | 110 ms |

## Short-circuit rating

|                                                    |                                 |
|----------------------------------------------------|---------------------------------|
| <b>SHORT-CIRCUIT CURRENT RATING (BASIC RATING)</b> | 700 A, max. Fuse, SCCR (UL/CSA) |
|                                                    | 600 A, max. CB, SCCR (UL/CSA)   |
|                                                    | 18 kA, SCCR (UL/CSA)            |

|                                                           |                               |
|-----------------------------------------------------------|-------------------------------|
| <b>SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 480 V)</b> | 250 A, max. CB, SCCR (UL/CSA) |
|                                                           | 18 kA, Fuse, SCCR (UL/CSA)    |

|                                                           |                                                         |
|-----------------------------------------------------------|---------------------------------------------------------|
| <b>SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 480 V)</b> | 65 kA, CB, SCCR (UL/CSA)                                |
|                                                           | 700 A, Class L, max. Fuse, SCCR (UL/CSA)                |
|                                                           | 700 A, Class L/450 A, Class J, max. Fuse, SCCR (UL/CSA) |
|                                                           | 18/100 kA, Fuse, SCCR (UL/CSA)                          |
|                                                           | 18 kA, Fuse, SCCR (UL/CSA)                              |

|                                                           |                                                         |
|-----------------------------------------------------------|---------------------------------------------------------|
| <b>SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 600 V)</b> | 700 A, Class J, max. Fuse, SCCR (UL/CSA)                |
|                                                           | 600 A, max. CB, SCCR (UL/CSA)                           |
|                                                           | 18 kA, CB, SCCR (UL/CSA)                                |
|                                                           | 700 A, Class L/450 A, Class J, max. Fuse, SCCR (UL/CSA) |
|                                                           | 18/100 kA, Fuse, SCCR (UL/CSA)                          |

|                                                                        |             |
|------------------------------------------------------------------------|-------------|
| <b>SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 1000 V</b> | 200 A gG/gL |
|------------------------------------------------------------------------|-------------|

|                                                                       |             |
|-----------------------------------------------------------------------|-------------|
| <b>SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 400 V</b> | 400 A gG/gL |
|-----------------------------------------------------------------------|-------------|

|                                                                       |             |
|-----------------------------------------------------------------------|-------------|
| <b>SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 690 V</b> | 400 A gG/gL |
|-----------------------------------------------------------------------|-------------|

|                                                                        |             |
|------------------------------------------------------------------------|-------------|
| <b>SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 1000 V</b> | 160 A gG/gL |
|------------------------------------------------------------------------|-------------|

|                                                                       |             |
|-----------------------------------------------------------------------|-------------|
| <b>SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 400 V</b> | 315 A gG/gL |
|-----------------------------------------------------------------------|-------------|

|                                                                       |             |
|-----------------------------------------------------------------------|-------------|
| <b>SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 690 V</b> | 315 A gG/gL |
|-----------------------------------------------------------------------|-------------|

## Switching capacity

|                                                             |                          |
|-------------------------------------------------------------|--------------------------|
| <b>SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)</b> | 15 A, 600 V AC, (UL/CSA) |
|                                                             | 1 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) |
|------------------------------------------------------------|----------------------------------------------------------|

|                                                        |                                      |
|--------------------------------------------------------|--------------------------------------|
| <b>SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)</b> | 350 A, Maximum motor rating (UL/CSA) |
|--------------------------------------------------------|--------------------------------------|

## Terminal capacities

|                                                    |                                                                                                                        |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>SCREW SIZE</b>                                  | M3.5, Terminal screw, Control circuit cables<br>M10, Terminal screw, Main connections                                  |
| <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>   | 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)</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/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>                           | 1.2 Nm, Screw terminals, Control circuit cables<br>24 Nm, Main cable connection screw/bolt                             |
| <b>WIDTH ACROSS FLATS</b>                          | 16 mm                                                                                                                  |

## Resources

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BROCHURES                  | <a href="#">eaton-product-brochure-dilmdilh-power-contactors-brochure-br034010en-en-us.pdf</a>                                                                                                                                                                                                                                                                                                                                                                                                                  |
| CATALOGUES                 | <a href="#">Product Range Catalog Switching and protecting motors</a><br><br><a href="#">eaton-contactors-component-dilm-characteristic-curve-002.eps</a><br><br><a href="#">eaton-contactors-component-dilm-characteristic-curve.eps</a>                                                                                                                                                                                                                                                                       |
| CHARACTERISTIC CURVE       | <a href="#">eaton-contactors-component-dilm-characteristic-curve-003.eps</a><br><br><a href="#">eaton-contactors-short-time-loading-dilm-characteristic-curve-002.eps</a>                                                                                                                                                                                                                                                                                                                                       |
| DECLARATIONS OF CONFORMITY | <a href="#">eaton-contactor-declaration-of-conformity-eu250619en.pdf</a><br><br><a href="#">eaton-contactor-declaration-of-conformity-uk251102en.pdf</a><br><br><a href="#">eaton-contactors-mounting-dilm-dimensions-002.eps</a><br><br><a href="#">eaton-contactors-dilm-dimensions-007.eps</a><br><br><a href="#">eaton-contactors-mounting-dilm-dimensions.eps</a><br><br><a href="#">eaton-contactors-dilm-3d-drawing-004.eps</a><br><br><a href="#">eaton-contactors-mounting-dilm-3d-drawing-002.eps</a> |
| DRAWINGS                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| ECAD MODEL                 | <a href="#">DA-CE-ETN.DILM250_22(RA250)</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| INSTALLATION INSTRUCTIONS  | <a href="#">eaton-contactors-dilm250-to-dilm500-il03406002z.pdf</a>                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| MCAD MODEL                 | <a href="#">eaton-iec-contactors-mcad-3d-models-dilm250-300-s22.stp</a>                                                                                                                                                                                                                                                                                                                                                                                                                                         |

|                  |                                                                        |
|------------------|------------------------------------------------------------------------|
|                  | <a href="#">eaton-iec-contactors-mcad-drawings-dilm250-300-s22.dwg</a> |
| PEP ECO-PASSPORT | <a href="#">eaton-iec-contactors-pep-eato-00135-v0101-en.pdf</a>       |
| SYSTEM OVERVIEW  | <a href="#">eaton-contactors-system55-dilm-explosion-drawing.eps</a>   |
| WIRING DIAGRAMS  | <a href="#">eaton-contactors-contact-dilm-wiring-diagram-004.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.

