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Eaton 189950

Eaton Moeller® series DILM Contactor, 3 pole, 380 V 400 V 22 kW, RDC 24: 24 - 27 V DC, DC operation, Spring-loaded terminals DILMC50-EA(RDC24)

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| PRODUCT NAME | Eaton Moeller® series DILM contactor |
| CATALOG NUMBER | 189950 |
| PRODUCT LENGTH/DEPTH | 132.1 mm |
| PRODUCT HEIGHT | 115 mm |
| PRODUCT WIDTH | 55 mm |
| PRODUCT WEIGHT | 1.042 kg |
| COMPLIANCES | RoHS conform CE Marked |



Powering Business Worldwide

ELECTRICAL CONNECTION TYPE FOR AUXILIARY- AND CONTROL-CURRENT CIRCUIT

Spring clamp connection

NUMBER OF POLES

Three-pole

10.10 TEMPERATURE RISE

The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.

10.11 SHORT-CIRCUIT RATING

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

10.12 ELECTROMAGNETIC COMPATIBILITY

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

10.13 MECHANICAL FUNCTION

The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

10.2.2 CORROSION RESISTANCE

Meets the product standard's requirements.

10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES

Meets the product standard's requirements.

10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT

Meets the product standard's requirements.

10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS

Meets the product standard's requirements.

10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION

Meets the product standard's requirements.

10.2.5 LIFTING

Does not apply, since the entire switchgear needs to be evaluated.

10.2.6 MECHANICAL IMPACT

Does not apply, since the entire switchgear needs to be evaluated.

10.2.7 INSCRIPTIONS

Meets the product standard's requirements.

CHARACTERISTIC CURVE

[eaton-contactors-switch-dilm-characteristic-curve-002.eps](#)

[eaton-contactors-switch-dilm-characteristic-curve.eps](#)

DECLARATIONS OF CONFORMITY

[eaton-contactor-declaration-of-conformity-uk251223en.pdf](#)

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[IL034043ZU](#)

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[eaton-contactors-contact-dilm-wiring-diagram-003.eps](#)

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[eaton-contactors-dilm-dimensions-002.eps](#)

[eaton-contactors-dilm-3d-drawing-012.eps](#)

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| 10.3 DEGREE OF PROTECTION OF ASSEMBLIES | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.4 CLEARANCES AND CREEPAGE DISTANCES | Meets the product standard's requirements. |
| 10.5 PROTECTION AGAINST ELECTRIC SHOCK | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS | Is the panel builder's responsibility. |
| 10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS | Is the panel builder's responsibility. |
| 10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH | Is the panel builder's responsibility. |
| 10.9.3 IMPULSE WITHSTAND VOLTAGE | Is the panel builder's responsibility. |
| 10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL | Is the panel builder's responsibility. |
| POLLUTION DEGREE | 3 |
| CONNECTION | Spring-loaded terminals Screw terminals |
| AMBIENT OPERATING TEMPERATURE - MAX | 60 °C |
| AMBIENT OPERATING TEMPERATURE - MIN | -25 °C |
| AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX | 40 °C |
| AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN | -25 °C |
| AMBIENT STORAGE TEMPERATURE - MAX | 80 °C |
| AMBIENT STORAGE TEMPERATURE - MIN | -40 °C |
| PRODUCT CATEGORY | Contactors |
| ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT | Screw connection |
| VOLTAGE TYPE | DC |
| NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS) | 0 |
| NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS) | 0 |

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| OPEN CONTACTS) | |
| NUMBER OF CONTACTS (NORMALLY CLOSED) AS MAIN CONTACT | 0 |
| NUMBER OF MAIN CONTACTS (NORMALLY OPEN CONTACT) | 3 |
| OVERVOLTAGE CATEGORY | III |
| DUTY FACTOR | 100 % |
| INTERFERENCE IMMUNITY | According to EN 60947-1 |
| RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX | 27 V |
| RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN | 24 V |
| RATED INSULATION VOLTAGE (UI) | 690 V |
| RATED OPERATIONAL CURRENT (IE) AT AC-1, 380 V, 400 V, 415 V | 80 A |
| RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V | 50 A |
| RATED OPERATIONAL CURRENT (IE) AT AC-4, 400 V | 21 A |
| RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ | 22 kW |
| RATED OPERATIONAL POWER AT AC-4, 380/400 V, 50 HZ | 10 kW |
| RATED OPERATIONAL POWER (NEMA) | 29.8 kW |
| SHORT-CIRCUIT CURRENT RATING (BASIC RATING) | 5 kA, 250 A max. fuse, SCCR (UL/CSA) 5 kA, 250 A max. CB, SCCR (UL/CSA) |
| SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 480 V) | 100 kA, 150 A CLASS J max. fuse, SCCR (UL/CSA) 65 kA, 100 A max. CB, SCCR (UL/CSA) |
| SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 600 V) | 100 kA, 150 A CLASS J max. fuse, SCCR (UL/CSA) |
| OPERATING VOLTAGE AT AC, 50 HZ - MIN | 230 V |
| OPERATING VOLTAGE AT AC, 50 HZ - MAX | 690 V |

