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Eaton Moeller® series DILM Contactor, 3 pole, 380 V 400 V 22 kW, 42 V 50 Hz, 48 V 60 Hz, AC operation, Screw terminals

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Eaton Moeller® series ZB Overload relay, ZB65, Ir= 24 - 40 A, 1 N/O, 1 N/C, Direct mounting, IP00
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Eaton Moeller® series ZB Overload relay, ZB65, Ir= 40 - 57 A, 1 N/O, 1 N/C, Direct mounting, IP00
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Eaton Moeller® series ZB Overload relay, ZB65, Ir= 50 - 65 A, 1 N/O, 1 N/C, Direct mounting, IP00
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Eaton Moeller® series DILM RC suppressor circuit, 110 - 240 AC V, For use with: DILM40 - DILM95, DILK33 - DILK50, DILMP63 - DILMP200

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Eaton Moeller® series DILM Secondary terminal wire kit, star-delta, for DILM40-M65

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Eaton Moeller® series ZB Overload relay, ZB65, Ir= 16 - 24 A, 1 N/O, 1 N/C, Direct mounting, IP00

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Eaton Moeller® series DILM Varistor suppressor circuit, 130 - 240 AC V, For use with: DILM40 - DILM95, DILK33 - DILK50, DILMP63 - DILMP200 DILM95-XSPV240

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108792

Eaton Moeller® series ZB Overload relay, ZB65, Ir= 65 - 75 A, 1 N/O, 1 N/C, Direct mounting, IP00

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283464

Eaton Moeller® series DILM Auxiliary contact module, 4 pole, Ith= 16 A, 2 N/O, 2 NC, Front fixing, Screw terminals, DILM40 - DILM170, XHIA

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Eaton Moeller® series DILM Interlock, mechanical, for DILM40-65

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Eaton Moeller® series DILM RC suppressor circuit, 240 - 500 AC V, For use with: DILM40 - DILM95, DILK33 - DILK50, DILMP63 - DILMP200

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Eaton Moeller® series DILM Varistor suppressor circuit, 130 - 240 AC V, For use with: DILM40 - DILM95, DILK33 - DILK50, DILMP63 - DILMP200 DILM95-XSPV240

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Eaton Moeller® series ZB Overload relay, ZB65, Ir= 65 - 75 A, 1 N/O, 1 N/C, Direct mounting, IP00

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Eaton Moeller® series DILM Auxiliary contact module, 4 pole, Ith= 16 A, 2 N/O, 2 NC, Front fixing, Screw terminals, DILM40 - DILM170, XHIA

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Eaton Moeller® series DILM Interlock, mechanical, for DILM40-65

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Eaton Moeller® series DILM RC suppressor circuit, 240 - 500 AC V, For use with: DILM40 - DILM95, DILK33 - DILK50, DILMP63 - DILMP200

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- General specifications
- Features & Functions
- General
- Ambient conditions, mechanical
- Climatic environmental conditions
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- Terminal capacities
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- Motor Rating
- Communication
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- Safety
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- Design verification

General specifications

Product Name

Eaton Moeller® series DILM contactor

Catalog Number

277826

Model Code

DILM50(42V50HZ,48V60HZ)

EAN
4015082778262
Product Length/Depth
132.1 mm
Product Height
115 mm
Product Width
55 mm
Product Weight
0.872 kg
Certifications
CSA-C22.2 No. 60947-4-1-14
UL 60947-4-1
UL Category Control No.: NLDX
CSA File No.: 012528
IEC/EN 60947-4-1
VDE 0660
CSA
IEC/EN 60947
UL File No.: E29096
CE
CSA Class No.: 2411-03, 3211-04
UL
Catalog Notes
Contacts according to EN 50012

Features & Functions

Number Of Poles
Three-pole

General

Application
Contactors for Motors
Frame size
FS3
Lifespan, mechanical
10,000,000 Operations (AC operated)
Operating frequency
5000 mechanical Operations/h (AC operated)
Overvoltage category
III
Pollution degree
3
Product category
Contactors
Protection
Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)
Rated impulse withstand voltage (U_{imp})
8000 V AC
Resistance per pole
1.9 mΩ
Suitable for
Also motors with efficiency class IE3
Utilization category
AC-3: Normal AC induction motors: starting, switch off during running
AC-4: Normal AC induction motors: starting, plugging, reversing, inching
AC-1: Non-inductive or slightly inductive loads, resistance furnaces
Voltage type
AC

Ambient conditions, mechanical

Shock resistance

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

Climatic environmental conditions

Ambient operating temperature - min
-25 °C
Ambient operating temperature - max
60 °C
Ambient operating temperature (enclosed) - min
25 °C
Ambient operating temperature (enclosed) - max
40 °C
Ambient storage temperature - min
40 °C
Ambient storage temperature - max
80 °C
Climatic proofing
Damp heat, constant, to IEC 60068-2-78
Damp heat, cyclic, to IEC 60068-2-30

Electro Magnetic Compatibility

Emitted interference
According to EN 60947-1
Interference immunity
According to EN 60947-1

Terminal capacities

Terminal capacity (copper band)
2 x (6 x 9 x 0.8) mm (Number of segments x width x thickness), Main cables
Terminal capacity (flexible with ferrule)
1 x (0.75 - 2.5) mm², Control circuit cables
2 x (0.75 - 2.5) mm², Control circuit cables
1 x (0.75 - 35) mm², Main cables
2 x (0.75 - 25) mm², Main cables
Terminal capacity (solid)
1 x (0.75 - 4) mm², Control circuit cables
2 x (0.75 - 16) mm², Main cables
1 x (0.75 - 16) mm², Main cables
2 x (0.75 - 2.5) mm², Control circuit cables
Terminal capacity (solid/stranded AWG)
18 - 14, Control circuit cables
Single 14 - 1, double 14 - 2, Main cables
Terminal capacity (stranded)
2 x (16 - 35) mm², Main cables
1 x (16 - 50) mm², Main cables
Stripping length (main cable)
14 mm
Stripping length (control circuit cable)
10 mm
Screw size
M6, Terminal screw, Main cables
M3.5, Terminal screw, Control circuit cables
Screwdriver size
2, Terminal screw, Pozidriv screwdriver
0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver
Tightening torque
1.2 Nm, Screw terminals, Control circuit cables
3.3 Nm, Screw terminals, Main cables

Electrical Rating

Rated breaking capacity at 220/230 V

500 A

Rated breaking capacity at 380/400 V

500 A

Rated breaking capacity at 500 V

500 A

Rated breaking capacity at 660/690 V

320 A

Rated operational current (Ie) at AC-1, 380 V, 400 V, 415 V

80 A

Rated operational current (Ie) at AC-3, 220 V, 230 V, 240 V

50 A

Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V

50 A

Rated operational current (Ie) at AC-3, 440 V

50 A

Rated operational current (Ie) at AC-3, 500 V

50 A

Rated operational current (Ie) at AC-3, 660 V, 690 V

32 A

Rated operational current (Ie) at AC-4, 220 V, 230 V, 240 V

21 A

Rated operational current (Ie) at AC-4, 400 V

21 A

Rated operational current (Ie) at AC-4, 500 V

21 A

Rated operational current (Ie) at AC-4, 660 V, 690 V

17 A

Rated operational current (Ie) at DC-1, 60 V

60 A

Rated operational current (Ie) at DC-1, 110 V

50 A

Rated operational current (Ie) at DC-1, 220 V

45 A

Rated insulation voltage (Ui)

690 V

Rated operational power at AC-3, 240 V, 50 Hz

17 kW

Rated operational power at AC-3, 380/400 V, 50 Hz

22 kW

Rated operational power at AC-3, 415 V, 50 Hz

30 kW

Rated operational power at AC-4, 220/230 V, 50 Hz

6 kW

Rated operational power at AC-4, 240 V, 50 Hz

6.5 kW

Rated operational power at AC-4, 415 V, 50 Hz

11 kW

Rated operational power at AC-4, 440 V, 50 Hz

12 kW

Rated operational power at AC-4, 500 V, 50 Hz

13 kW

Rated operational power at AC-4, 660/690 V, 50 Hz

14 kW

Rated operational voltage (Ue) at AC - max

690 V

Short-circuit rating

Short-circuit current rating (basic rating)

250 A, max. CB, SCCR (UL/CSA)

10 kA, SCCR (UL/CSA)

250 A, max. Fuse, SCCR (UL/CSA)

Short-circuit current rating (high fault at 480 V)
250/150 A, Class J, max. Fuse, SCCR (UL/CSA)
65 kA, CB, SCCR (UL/CSA)
30/100 kA, Fuse, SCCR (UL/CSA)
100 A, max. CB, SCCR (UL/CSA)

Short-circuit current rating (high fault at 600 V)
30/100 kA, Fuse, SCCR (UL/CSA)
250/150 A, Class J, max. Fuse, SCCR (UL/CSA)
30 kA, CB, SCCR (UL/CSA)
250 A, max. CB, SCCR (UL/CSA)

Short-circuit protection rating (type 1 coordination) at 400 V
160 A gG/gL

Short-circuit protection rating (type 1 coordination) at 690 V
80 A gG/gL

Short-circuit protection rating (type 2 coordination) at 400 V
80 A gG/gL

Short-circuit protection rating (type 2 coordination) at 690 V
63 A gG/gL

Conventional thermal current

Conventional thermal current i_{th} (1-pole, enclosed)
145 A

Conventional thermal current i_{th} (3-pole, enclosed)
58 A

Conventional thermal current i_{th} at 55°C (3-pole, open)
68 A

Conventional thermal current i_{th} of main contacts (1-pole, open)
162 A

Switching capacity

Switching capacity (main contacts, general use)
80 A, Maximum motor rating (UL/CSA)

Switching time

Arcing time
10 ms
Switching time (AC operated, make contacts, closing delay) - min
12 ms
Switching time (AC operated, make contacts, closing delay) - max
18 ms
Switching time (AC operated, make contacts, opening delay) - min
8 ms
Switching time (AC operated, make contacts, opening delay) - max
13 ms

Magnet system

Drop-out voltage
AC operated: 0.6 - 0.3 x UC, AC operated
Duty factor
100 %
Pick-up voltage
0.8 - 1.1 V AC x Uc
Power consumption, pick-up, 50 Hz
149 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz
Power consumption, pick-up, 60 Hz
178 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz
Power consumption, sealing, 50 Hz
4.1 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz
16 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz
Power consumption, sealing, 60 Hz
19 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz
4.1 W, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz

Rated control supply voltage (Us) at AC, 50 Hz - min
42 V
Rated control supply voltage (Us) at AC, 50 Hz - max
42 V
Rated control supply voltage (Us) at AC, 60 Hz - min
48 V
Rated control supply voltage (Us) at AC, 60 Hz - max
48 V
Rated control supply voltage (Us) at DC - min
0 V
Rated control supply voltage (Us) at DC - max
0 V

Motor Rating

Assigned motor power at 115/120 V, 60 Hz, 1-phase
3 HP
Assigned motor power at 200/208 V, 60 Hz, 3-phase
15 HP
Assigned motor power at 230/240 V, 60 Hz, 1-phase
10 HP
Assigned motor power at 230/240 V, 60 Hz, 3-phase
20 HP
Assigned motor power at 460/480 V, 60 Hz, 3-phase
40 HP
Assigned motor power at 575/600 V, 60 Hz, 3-phase
50 HP

Communication

Connection
Screw terminals
Connection to SmartWire-DT
No

Contacts

Number of auxiliary contacts (normally closed contacts)
0
Number of auxiliary contacts (normally open contacts)
0

Safety

Safe isolation
440 V AC, Between the contacts, According to EN 61140
440 V AC, Between coil and contacts, According to EN 61140

Special purpose ratings

Special purpose rating of ballast electrical discharge lamps
79 A (480V 60Hz 3phase, 277V 60Hz 1phase)
79 A (600V 60Hz 3phase, 347V 60Hz 1phase)
Special purpose rating of elevator control
40 A, 480 V 60 Hz 3-ph, (UL/CSA)
30 HP, 480 V 60 Hz 3-ph, (UL/CSA)
40 HP, 600 V 60 Hz 3-ph, (UL/CSA)
41 A, 600 V 60 Hz 3-ph, (UL/CSA)
15 HP, 240 V 60 Hz 3-ph, (UL/CSA)
10 HP, 200 V 60 Hz 3-ph, (UL/CSA)
42 A, 240 V 60 Hz 3-ph, (UL/CSA)
32.2 A, 200 V 60 Hz 3-ph, (UL/CSA)
Special purpose rating of resistance air heating
79 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA)
79 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA)
Special purpose rating of tungsten incandescent lamps

74 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA)
74 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA)

Design verification

Equipment heat dissipation, current-dependent P_{vid}
9.9 W

Heat dissipation capacity P_{diss}
0 W

Heat dissipation per pole, current-dependent P_{vid}
3.3 W

Rated operational current for specified heat dissipation (I_n)
50 A

Static heat dissipation, non-current-dependent P_{vs}
4.1 W

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.

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.

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.

Serial Number Verified :

Authenticated: 

The product is verified as being authentic; however, this does not guarantee the condition or fit for purpose of the product.

Catalogs

- [Product Range Catalog Switching and protecting motors](#)

- [Switching and protecting motors - catalog](#)
- [SmartWire-DT Catalog](#)

Certification reports

- [DA-DC-00004229.pdf](#)
- [DA-DC-00004070.pdf](#)

Characteristic curve

- [eaton-contactors-component-dilm-characteristic-curve-003.eps](#)
- [eaton-contactors-switch-dilm-characteristic-curve-002.eps](#)
- [eaton-contactors-switch-dilm-characteristic-curve.eps](#)

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Declarations of conformity

- [DA-DC-00004817.pdf](#)
- [DA-DC-00004782.pdf](#)

Drawings

- [eaton-contactors-dilm-dimensions-002.eps](#)
- [eaton-contactors-dilm-dimensions-012.eps](#)
- [eaton-contactors-mounting-dilm-dimensions-002.eps](#)
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eCAD model

- [DA-CE-ETN.DILM50\(42V50HZ,48V60HZ\)](#)

Installation instructions

- [IL03407033Z](#)

Installation videos

- [WIN-WIN with push-in technology](#)

mCAD model

- [dil_m40_65_22.dwg](#)
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- [dil_m40_65_22.stp](#)
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System overview

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