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DILMT80(RDC24) - Contactor, 3 pole, 380 V 400 V: 37 kW, 24 V DC, DC operation, Screw terminals



190986 DILMT80(RDC24)

[Overview](#) [Specifications](#) [Resources](#)



190986 DILMT80(RDC24)

Contactor, 3 pole, 380 V 400 V: 37 kW, 24 V DC, DC operation, Screw terminals

EL-Nummer (Norway)

4100443

Contactor, Application: Contactors for Motors, Contactors up to 95 A, 3 pole, Utilization category: AC-1: Non-inductive or slightly inductive loads, resistance furnaces, NAC-3: Normal AC induction motors: starting, switch off during running, AC-4: Normal AC induction motors: starting, plugging, reversing, inching, Connection technique: Screw terminals, Notes: Not suitable for motors with efficiency class IE3., Number of poles: 3 pole, Rated operational current AC-3 380 V 400 V: $I_e = 80$ A, Rated operational current AC-1 Conventional free air thermal current, 3 pole, 50 - 60 Hz Open at 40 °C: $I_{th} = I_e = 110$ A, Max. rating for three-phase motors, 50 - 60 Hz AC-3 220 V 230 V: P= 25 kW, 380 V 400 V: P= 37 kW, 660 V 690 V: P= 37 kW, Can be combined with auxiliary contact: DILT-XH101 (10), DILMT95-XH11-SR, Voltage AC/DC: DC operation

- Delivery program
- Technical data
- Design verification as per IEC/EN 61439
- Technical data ETIM 7.0
- Approvals
- Dimensions

Delivery program

Product range

Contactors

Application

Contactors for Motors

Subrange

Contactors up to 95 A, 3 pole

Utilization category

AC-1: Non-inductive or slightly inductive loads, resistance furnaces

NAC-3: Normal AC induction motors: starting, switch off during running

AC-4: Normal AC induction motors: starting, plugging, reversing, inching

Notes

Not suitable for motors with efficiency class IE3.

Connection technique

Screw terminals

Number of poles

3 pole

Rated operational current

AC-3 380 V 400 V [I_e]

80 A

AC-1 Conventional free air thermal current, 3 pole, 50 - 60 Hz Open at 40 °C [$I_{th} = I_e$]

110 A

Max. rating for three-phase motors, 50 - 60 Hz

AC-3 220 V 230 V [P]

25 kW

AC-3 380 V 400 V [P]

37 kW
AC-3660 V 690 V [F]
37 kW
Contact sequence

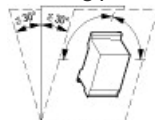


Instructions

Integrated varistor suppressor circuit.
Can be combined with auxiliary contact
DILT-XH101(10)
DILMT95-XH11-SR
Actuating voltage
24 V DC
Voltage AC/DC
DC operation
Connection to SmartWire-DT
no
Frame size
4

Technical data

General
Standards
IEC/EN 60947, GB14048, EN60335-1
Lifespan, mechanicalDC operated [Operations]
5 x 10⁶
AC-3 [Operations]
0.9 x 10⁶
Operating frequency, mechanicalDC operated [Operations/h]
3600
Climatic proofing
Damp heat, constant, to IEC 60068-2-78
Damp heat, cyclic, to IEC 60068-2-30
Ambient temperatureOpen
-25 - +55 °C
Ambient temperatureStorage
- 40 - 80 °C
Mounting position



Degree of Protection

IP20

WeightDC operated

1.26 kg

Screw connector terminalsTerminal capacity main cableSolid

1 x (6 - 50)

2 x (6 - 25) mm²

Screw connector terminalsTerminal capacity main cableStranded

1 x (6 - 50)

2 x (6 - 25) mm²

Screw connector terminalsTerminal capacity main cableStripping length

16 mm

Screw connector terminalsTerminal capacity main cableTerminal screw

M8

Screw connector terminalsTerminal capacity main cableTightening torque

6

8 (solid) Nm

Screw connector terminalsTerminal capacity main cableToolHexagon socket-head spanner [SW]

4 mm

Screw connector terminalsTerminal capacity control circuit cablesSolid

1 x (0.75 - 2.5)

2 x (0.75 - 2.5) mm²

Screw connector terminalsTerminal capacity control circuit cablesTerminal screw

M3.5

Screw connector terminalsTerminal capacity control circuit cablesTightening torque

1.2 Nm

Screw connector terminals Terminal capacity control circuit cables Tool Pozidriv screw driver

2 Size

Main conducting paths

Rated impulse withstand voltage [U_{imp}]

6000 V AC

Overvoltage category/pollution degree

III/3

Rated insulation voltage [U_i]

690 V AC

Rated operational voltage [U_e]

690 V AC

Breaking capacity 380 V 400 V

640 A

AC

AC-1 Rated operational current Conventional free air thermal current, 3 pole, 50 - 60 Hz Operat at 40 °C [$I_{th}=I_e$]

110 A

AC-3 Rated operational current Open, 3-pole: 50 – 60 Hz 220 V 230 V [I_e]

80 A

AC-3 Rated operational current Open, 3-pole: 50 – 60 Hz 240 V [I_e]

80 A

AC-3 Rated operational current Open, 3-pole: 50 – 60 Hz 380 V 400 V [I_e]

80 A

AC-3 Mtor rating [P] 220 V 230 V [P]

25 kW

AC-3 Mtor rating [P] 380 V 400 V [P]

37 kW

AC-3 Mtor rating [P] 660 V 690 V [P]

37 kW

Magnet systems

Changeover time at 100 % U_S (recommended value) Main contacts DC operated Closing delay

32 - 40 ms

Changeover time at 100 % U_S (recommended value) Main contacts DC operated Opening delay

22 - 28 ms

Design verification as per IEC/EN 61439

Operating ambient temperature min.

-25 °C

Operating ambient temperature max.

+55 °C

Technical data ETIM 7.0

Low-voltage industrial components (EG000017) / Power contactor, AC switching (EC000066)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Contactor (LV) /

Power contactor, AC switching (ecl@ss10.0.1-27-37-10-03 [AAB718015])

Rated control supply voltage U_s at AC 50 Hz

0 - 0 V

Rated control supply voltage U_s at AC 60 Hz

0 - 0 V

Rated control supply voltage U_s at DC

24 - 24 V

Voltage type for actuating

DC

Rated operation current I_e at AC-1, 400 V

110 A

Rated operation current I_e at AC-3, 400 V

80 A

Rated operation power at AC-3, 400 V

37 kW

Rated operation current I_e at AC-4, 400 V

0 A

Rated operation power at AC-4, 400 V

0 kW

Rated operation power NEMA

0 kW

Modular version

No

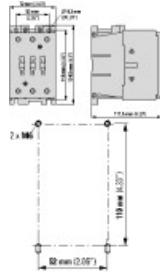
Number of auxiliary contacts as normally open contact

0
 Number of auxiliary contacts as normally closed contact
 0
 Type of electrical connection of main circuit
 Screw connection
 Number of normally closed contacts as main contact
 0
 Number of main contacts as normally open contact
 3

Approvals

Specially designed for North America
 No

Dimensions



Product photo



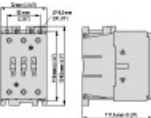
2100PIC-251
 Photo

Wiring diagram



210S045
 Line drawing
 Contacts

Dimensions single product

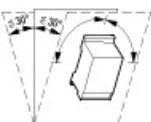


2100DIM-56
 Line drawing



2100DIM-61
 Line drawing

3D drawing



0001052

Line drawing

Mounting position, contactor

- [2100DRW-437](#)
Line drawing

Declaration of Conformity

EU

- [Eaton-AC Contactors; Control Relay; Auxiliary Contact \(DA-DC-00003681\)](#)
Asset
(PDF)

Instruction Leaflet

- [Contactor relays and contactors up to 95 A \(IL034052ZU\)](#)
Asset
(PDF, 06/2018, multilingual)

CAD data

edz files

- [DA-CE-ETN.DILMT80\(RDC24\)](#)
File
(Web)

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