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DILMT7(230V50HZ/240V60HZ) - Contactor, 3 pole, 380 V 400 V: 3 kW, 230 V 50 Hz, 240 V 60 Hz, AC operation, Screw terminals



190994 DILMT7(230V50HZ/240V60HZ)

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



190994

DILMT7(230V50HZ/240V60HZ)

Contactor, 3 pole, 380 V 400 V: 3 kW, 230 V 50 Hz, 240 V 60 Hz, AC operation, Screw terminals
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: Also suitable for motors with efficiency class IE3., Number of poles: 3 pole, Rated operational current AC-3 380 V 400 V: $I_e = 7$ A, Rated operational current AC-1 Conventional free air thermal current, 3 pole, 50 - 60 Hz Open at 40 °C: $I_{th} = I_e = 20$ A, Max. rating for three-phase motors, 50 - 60 Hz AC-3 220 V 230 V: $P = 2.2$ kW, 380 V 400 V: $P = 3$ kW, Can be combined with auxiliary contact: DILT-XHL., Voltage AC/DC: AC 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

AC-3/AC-3e: Normal AC induction motors: Starting, switching off while running

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

Notes

Also suitable for motors with efficiency class IE3.

Connection technique

Screw terminals

Number of poles

3 pole

Rated operational current

AC-3Notes

Also tested according to AC-3e.

AC-3380 V 400 V [I_e]

7 A

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

20 A

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

AC-3220 V 230 V [P]

2.2 kW
AC-3380 V 400 V [F]
3 kW
Contact sequence

Can be combined with auxiliary contact
DILT-XH...
Actuating voltage
230 V 50 Hz, 240 V 60 Hz
Voltage AC/DC
AC operation
Connection to SmartWire-DT
no
Frame size
1

Technical data

General

Standards

IEC/EN 60947, GB14048, EN60335-1

Lifespan, mechanical AC operated [Operations]

10 x 10⁶

AC-3 [Operations]

1 x 10⁶

AC-4 [Operations]

0.1 x 10⁶

Operating frequency, mechanical AC operated [Operations/h]

3600

Climatic proofing

Damp heat, constant, to IEC 60068-2-78

Damp heat, cyclic, to IEC 60068-2-30

Ambient temperature Open

-25 - +55 °C

Ambient temperature Storage

-40 - 80 °C

Mounting position

Degree of Protection

IP20

Weight AC operated

0.18 kg

Screw connector terminals Terminal capacity main cable Solid

1 x (0.75 - 2.5)

2 x (0.75 - 2.5) mm²

Screw connector terminals Terminal capacity main cable Stranded

1 x (0.75 - 2.5)

2 x (0.75 - 2.5) mm²

Screw connector terminals Terminal capacity main cable Stripping length

14 mm

Screw connector terminals Terminal capacity main cable Terminal screw

M3.5

Screw connector terminals Terminal capacity main cable Tightening torque

0.8 Nm

Screw connector terminals Terminal capacity main cable Tool Pozidriv screw driver

2 Size

Screw connector terminals Terminal capacity control circuit cables Solid

1 x (0.75 - 2.5)

2 x (0.75 - 2.5) mm²

Screw connector terminals Terminal capacity control circuit cables Terminal screw

M3.5

Screw connector terminals Terminal capacity control circuit cables Tightening torque

0.8 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]

690 V AC

Rated operational voltage [U_e]

660 V AC

Breaking capacity 380 V 400 V

56 A

AC

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

20 A

AC-3 Rated operational current Open, 3-pole: 50 – 60 Hz Notes

Also tested according to AC-3e.

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

7 A

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

7 A

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

7 A

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

2.2 kW

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

3 kW

Magnet systems

Voltage tolerance AC operated [Pick-up]

0.85 - 1.1 x U_e

Power consumption of the coil in a cold state and 1.0 x U_s 50 Hz [Pick-up]

35 VA

Power consumption of the coil in a cold state and 1.0 x U_s 50 Hz [Sealing]

6.5 VA

Power consumption of the coil in a cold state and 1.0 x U_s 50 Hz [Sealing]

2.3 W

Power consumption of the coil in a cold state and 1.0 x U_s 60 Hz [Pick-up]

30 VA

Power consumption of the coil in a cold state and 1.0 x U_s 60 Hz [Sealing]

6 VA

Power consumption of the coil in a cold state and 1.0 x U_s 60 Hz [Sealing]

2.1 W

Power consumption of the coil in a cold state and 1.0 x U_s 50/60 Hz [Pick-up]

0

VA

Power consumption of the coil in a cold state and 1.0 x U_s 50/60 Hz [Sealing]

0

VA

Power consumption of the coil in a cold state and 1.0 x U_s 50/60 Hz [Sealing]

0

W

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 50Hz

230 - 230 V

Rated control supply voltage U_s at AC 60Hz

240 - 240 V

Rated control supply voltage U_s at DC

0 - 0 V

Voltage type for actuating

AC

Rated operation current I_e at AC-1, 400 V

20 A

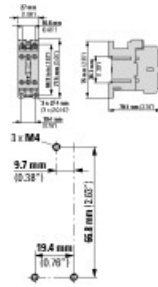
Rated operation current I_e at AC-3, 400 V

7 A
 Rated operation power at AC-3, 400 V
 3 kW
 Rated operation current Ie at AC-4, 400 V
 0 A
 Rated operation power at AC-4, 400 V
 0 kW
 Rated operation power NEVA
 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

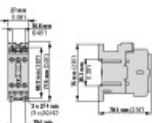


2100PIC-248
 Photo

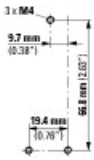
Wiring diagram

210S045
 Line drawing
 Contacts

Dimensions single product



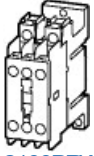
2100DIM-53
 Line drawing



2100DIM-69
Line drawing

3D drawing

- 0001052
Line drawing
Mounting position, contactor



2100DRW-434
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 12 A (IL034049ZU)
Asset
Internal packing pressure for contactor relays and contactors up to 12 A
(PDF, 06/2018, multilingual)

CAD data

edz files

- DA-CE-ETN.DILMT7(230V50HZ_240V60HZ)
File
(Web)

Download-Center

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Eaton EMEA Download-Center - download data for this item
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