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Worldwide English



DILMT7(24V50/60HZ) - Power contactor, 3 pole, 380 V 400 V: 3 kW, 24 V 50/60 Hz, AC operation, Screw terminals



197613 DILMT7(24V50/60HZ)

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



197613 DILMT7(24V50/60HZ)

Power contactor, 3 pole, 380 V 400 V: 3 kW, 24 V 50/60 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

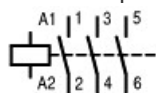
- Delivery program
- Technical data
- Design verification as per IEC/EN 61439
- Technical data ETIM 7.0
- Approvals
- Dimensions

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

24 V 50/60 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, mechanicalAC operated [Operations]

10×10^6

AC-3 [Operations]

1×10^6

AC-4 [Operations]

0.1×10^6

Operating frequency, mechanicalAC operated [Operations/h]

3600

Climatic proofing

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

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

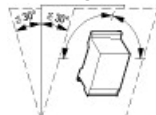
Ambient temperatureOpen

-25 - +55 °C

Ambient temperatureStorage

- 40 - 80 °C

Mounting position



Degree of Protection

IP20

WeightAC operated

0.18 kg

Screw connector terminalsTerminal capacity main cableSolid

1 x (0.75 - 2.5)

2 x (0.75 - 2.5) mm²

Screw connector terminalsTerminal capacity main cableStranded

1 x (0.75 - 2.5)

2 x (0.75 - 2.5) mm²

Screw connector terminalsTerminal capacity main cableStripping length

14 mm

Screw connector terminalsTerminal capacity main cableTerminal screw

M3.5

Screw connector terminalsTerminal capacity main cableTightening torque

0.8 Nm

Screw connector terminalsTerminal capacity main cableToolPozidriv screw driver

2 Size

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

0.8 Nm

Screw connector terminalsTerminal capacity control circuit cablesToolPozidriv 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]
 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 Operat 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 Mtor rating [P] 220 V 230 V [P]
 2.2 kW
 AC-3 Mtor 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 50/60 Hz [Pick-up]
 0
 35 VA
 Power consumption of the coil in a cold state and 1.0 x U_s Sealing power [Sealing]
 2.3 W
 Power consumption of the coil in a cold state and 1.0 x U_s 50/60 Hz [Sealing]
 0
 6 VA
 Power consumption of the coil in a cold state and 1.0 x U_s 50/60 Hz [Sealing]
 0
 2.1 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

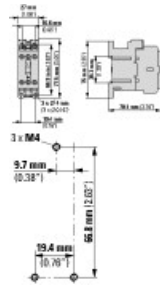
Low-voltage industrial components (EG000017) / Power contactor, AC switching (EC000066)
 Electric engineering, automation, process control engineering / Low-voltage switch technology / Contactor (LV) /
 Power contactor, AC switching (ecl@ss10.0.1-27-37-10-03 [AAB718015])
 Rated control supply voltage U_s at AC 50Hz
 24 - 24 V
 Rated control supply voltage U_s at AC 60Hz
 24 - 24 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 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



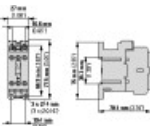
2100PIC-248
 Photo

Wiring diagram

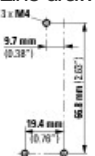


210S045
 Line drawing
 Contacts

Dimensions single product

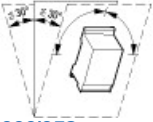


2100DIM-53
 Line drawing



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\(24V50_60HZ\)](#)

File

(Web)

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