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Worldwide English



DILMT17(24V50/60HZ) - Power contactor, 3 pole, 380 V 400 V: 7.5 kW, 24 V 50/60 Hz, AC operation, Screw terminals



197616 DILMT17(24V50/60HZ)

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



197616 DILMT17(24V50/60HZ)

Power contactor, 3 pole, 380 V 400 V: 7.5 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: $I_e = 17$ A, Rated operational current AC-1 Conventional free air thermal current, 3 pole, 50 - 60 Hz Open at 40 °C: $I_{th} = I_e = 25$ A, Max. rating for three-phase motors, 50 - 60 Hz AC-3 220 V 230 V: P= 5 kW, 380 V 400 V: P= 7.5 kW, Can be combined with auxiliary contact: DILT-XH01(10), 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]
17 A
AC-1Conventional free air thermal current, 3 pole, 50 - 60 HzOpenat 40 °C [$I_{th} = I_e$]
25 A
Max. rating for three-phase motors, 50 - 60 Hz
AC-3220 V 230 V [P]

5 kW
AC-3380 V 400 V [F]
7.5 kW

Contact sequence



Can be combined with auxiliary contact

DILT-XH10(10)

Actuating voltage

24 V 50/60 Hz

Voltage AC/DC

AC operation

Connection to SmartWire-DT

no

Frame size

2

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

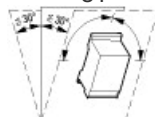
Ambient temperatureOpen

-25 - +55 °C

Ambient temperatureStorage

- 40 - 80 °C

Mounting position



Degree of Protection

IP20

WeightAC operated

0.36 kg

Screw connector terminalsTerminal capacity main cableSolid

1 x (1 - 10)

2 x (1 - 6) mm²

Screw connector terminalsTerminal capacity main cableStranded

1 x (1 - 4)

2 x (1 - 4) mm²

Screw connector terminalsTerminal capacity main cableStripping length

14 mm

Screw connector terminalsTerminal capacity main cableTerminal screw

M5

Screw connector terminalsTerminal capacity main cableTightening torque

2 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
 144 A
 AC
 AC-1 Rated operational current Conventional free air thermal current, 3 pole, 50 - 60 Hz Operat 40 °C [$I_{th} = I_e$]
 25 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]
 17 A
 AC-3 Rated operational current Open, 3-pole: 50 – 60 Hz 240 V [I_e]
 17 A
 AC-3 Rated operational current Open, 3-pole: 50 – 60 Hz 380 V 400 V [I_e]
 17 A
 AC-3 Mtor rating [P] 220 V 230 V [P]
 5 kW
 AC-3 Mtor rating [P] 380 V 400 V [P]
 7.5 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
 85 VA
 Power consumption of the coil in a cold state and 1.0 x U_s Sealing power [Sealing]
 2.6 W
 Power consumption of the coil in a cold state and 1.0 x U_s 50/60 Hz [Sealing]
 0
 8.1 VA
 Power consumption of the coil in a cold state and 1.0 x U_s 50/60 Hz [Sealing]
 0
 2.5 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
 25 A
 Rated operation current I_e at AC-3, 400 V
 17 A
 Rated operation power at AC-3, 400 V
 7.5 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



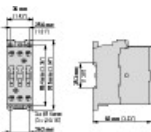
2100PIC-249
 Photo

Wiring diagram



210S045
 Line drawing
 Contacts

Dimensions single product



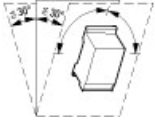
2100DIM-54
 Line drawing



2100DIM-58

Line drawing

3D drawing



0001052

Line drawing

Mounting position, contactor

2100DRAW-435

Line drawing

Instruction Leaflet

- [Contactor relays and contactors up to 32 A \(IL034050ZU\)](#)
Asset
Internal packing pressure for contactors up to 32 A
(PDF, 06/2018, multilingual)

CAD data

edz files

- [DA-CE-ETN.DILMT17\(24V50_60HZ\)](#)
File
(Web)

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