

Select your language

- German
- English
- Spanish
- French
- Dutch
- Italian
- Polish
- Czech
- Russian
- Norwegian Bokmål

Worldwide English



Powering Business Worldwide

DILMT40(24V50/60HZ) - Power contactor, 3 pole, 380 V 400 V: 18.5 kW, 24 V 50/60 Hz, AC operation, Screw terminals



197619 DILMT40(24V50/60HZ)

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



197619 DILMT40(24V50/60HZ)

Power contactor, 3 pole, 380 V 400 V: 18.5 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: Not suitable for motors with efficiency class IE3., Number of poles: 3 pole, Rated operational current AC-3 380 V 400 V: $I_e = 40$ A, Rated operational current AC-1 Conventional free air thermal current, 3 pole, 50 - 60 Hz Open at 40 °C: $I_{th} = I_e = 60$ A, Max. rating for three-phase motors, 50 - 60 Hz AC-3 220 V 230 V: P= 12.5 kW, 380 V 400 V: P= 18.5 kW, 660 V 690 V: P= 22 kW, Can be combined with auxiliary contact: DILT-XH101 (10), DILMT95-XH11-SR, 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

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]

40 A

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

60 A

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

AC-3 220 V 230 V [P]

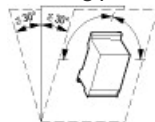
12.5 kW
 AC-3380 V 400 V [F]
 18.5 kW
 AC-3660 V 690 V [F]
 22 kW
 Contact sequence



Can be combined with auxiliary contact
 DILT-XH101(10)
 DILMT95-XH11-SR
 Actuating voltage
 24 V 50/60 Hz
 Voltage AC/DC
 AC operation
 Connection to SmartWire-DT
 no
 Frame size
 3

Technical data

General
 Standards
 IEC/EN 60947, GB14048, EN60335-1
 Lifespan, mechanicalAC operated [Operations]
 5 x 10⁶
 AC-3 [Operations]
 0.9 x 10⁶
 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
 0.78 kg
 Screw connector terminalsTerminal capacity main cableSolid
 1 x (2.5 - 25)
 2 x (2.5 - 16) mm²
 Screw connector terminalsTerminal capacity main cableStranded
 1 x (2.5 - 25)
 2 x (2.5 - 16) mm²
 Screw connector terminalsTerminal capacity main cableStripping length
 14 mm
 Screw connector terminalsTerminal capacity main cableTerminal screw
 M6
 Screw connector terminalsTerminal capacity main cableTightening torque
 2.5 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 cablesStripping length
 14 mm
 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
 320 A
 AC
 AC-1 Rated operational current Conventional free air thermal current, 3 pole, 50 - 60 Hz Operat 40 °C [$I_{th} = I_e$]
 60 A
 AC-3 Rated operational current Open, 3-pole: 50 – 60 Hz 220 V 230 V [I_e]
 40 A
 AC-3 Rated operational current Open, 3-pole: 50 – 60 Hz 240 V [I_e]
 40 A
 AC-3 Rated operational current Open, 3-pole: 50 – 60 Hz 380 V 400 V [I_e]
 40 A
 AC-3 Mtor rating [P] 220 V 230 V [P]
 12.5 kW
 AC-3 Mtor rating [P] 380 V 400 V [P]
 18.5 kW
 AC-3 Mtor rating [P] 660 V 690 V [P]
 22 kW
 Magnet systems
 Voltage tolerance AC operated [Pick-up]
 0.85 - 1.1 x U_c
 Power consumption of the coil in a cold state and 1.0 x U_s 50/60 Hz [Pick-up]
 0
 220 VA
 Power consumption of the coil in a cold state and 1.0 x U_s Sealing power [Sealing]
 6 CO
 Power consumption of the coil in a cold state and 1.0 x U_s 50/60 Hz [Sealing]
 0
 20 VA
 Power consumption of the coil in a cold state and 1.0 x U_s 50/60 Hz [Sealing]
 0
 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 (ec1@ss10.0.1-27-37-10-03 [AAB718015])
 Rated control supply voltage U_s at AC 50 Hz
 24 - 24 V
 Rated control supply voltage U_s at AC 60 Hz
 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
 60 A
 Rated operation current I_e at AC-3, 400 V
 40 A
 Rated operation power at AC-3, 400 V
 18.5 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 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



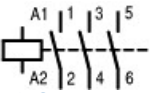
Product photo



2100PIC-250

Photo

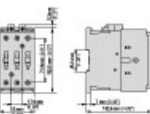
Wiring diagram



210S045

Line drawing
 Contacts

Dimensions single product



2100DIM-55

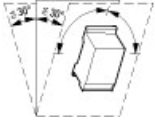
Line drawing



2100DIM-60

Line drawing

3D drawing



[0001052](#)

Line drawing

Mounting position, contactor

•

[2100DRW-436](#)

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 60 A \(IL034051ZU\)](#)

Asset

Internal packing pressure for contactors up to 60 A

(PDF, 06/2018, multilingual)

CAD data

edz files

- [DA-CE-ETN.DILMT40\(24V50_60HZ\)](#)

File

(Web)

Download-Center

- [Download-Center \(this item\)](#)
Eaton EMEA Download-Center - download data for this item
- [Download-Center](#)
Eaton EMEA Download-Center



Generate data sheet in PDF format



Generate data sheet in Excel format



Write a comment

[Imprint](#) [Privacy Policy](#) [Legal Disclaimer](#) [Terms and Conditions](#)

© 2021 by Eaton Industries GmbH