

Select your language

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

Worldwide English



Powering Business Worldwide

DILMT50(24V50/60HZ) - Power contactor, 3 pole, 380 V 400 V: 22 kW, 24 V 50/60 Hz, AC operation, Screw terminals



197620 DILMT50(24V50/60HZ)

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



## 197620 DILMT50(24V50/60HZ)

Power contactor, 3 pole, 380 V 400 V: 22 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:  $I_e = 50$  A, Rated operational current AC-1 Conventional free air thermal current, 3 pole, 50 - 60 Hz Open at 40 °C:  $I_{th} = I_e = 70$  A, Max. rating for three-phase motors, 50 - 60 Hz AC-3 220 V 230 V:  $P = 15.5$  kW, 380 V 400 V:  $P = 22$  kW, 660 V 690 V:  $P = 30$  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 [ $I_e$ ]

50 A

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

70 A

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

AC-3 220 V 230 V [ $P$ ]

15.5 kW  
AC-3380 V 400 V [F]  
22 kW  
AC-3660 V 690 V [F]  
30 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]

$5 \times 10^6$

AC-3 [Operations]

$0.9 \times 10^6$

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

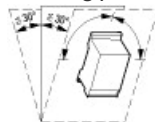
Ambient temperatureOpen

-25 - +55 °C

Ambient temperatureStorage

- 40 - 80 °C

Mounting position



Degree of Protection

IP20

WeightAC operated

0.78 kg

Screw connector terminalsTerminal capacity main cableSolid

1 x (2.5 - 25)

2 x (2.5 - 16) mm<sup>2</sup>

Screw connector terminalsTerminal capacity main cableStranded

1 x (2.5 - 25)

2 x (2.5 - 16) mm<sup>2</sup>

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) mm<sup>2</sup>

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  
 400 A  
 AC  
 AC-1 Rated operational current Conventional free air thermal current, 3 pole, 50 - 60 Hz Operat 40 °C [ $I_{th} = I_e$ ]  
 70 A  
 AC-3 Rated operational current Open, 3-pole: 50 – 60 Hz 220 V 230 V [ $I_e$ ]  
 50 A  
 AC-3 Rated operational current Open, 3-pole: 50 – 60 Hz 240 V [ $I_e$ ]  
 50 A  
 AC-3 Rated operational current Open, 3-pole: 50 – 60 Hz 380 V 400 V [ $I_e$ ]  
 50 A  
 AC-3 Motor rating [P] 220 V 230 V [P]  
 15.5 kW  
 AC-3 Motor rating [P] 380 V 400 V [P]  
 22 kW  
 AC-3 Motor rating [P] 660 V 690 V [P]  
 30 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  
 70 A  
 Rated operation current  $I_e$  at AC-3, 400 V  
 50 A  
 Rated operation power at AC-3, 400 V  
 22 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



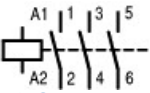
## Product photo



2100PIC-250

Photo

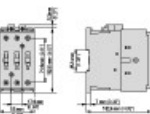
## Wiring diagram



2100S045

Line drawing  
 Contacts

## Dimensions single product



2100DIM-55

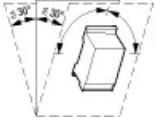
Line drawing



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.DILMT50\(24V50\\_60HZ\)](#)

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