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Powering Business Worldwide

DILMT95(RDC24) - Contactor, 3 pole, 380 V 400 V: 45 kW, 24 V DC, DC operation, Screw terminals



190987 DILMT95(RDC24)

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



## 190987 DILMT95(RDC24)

Contactor, 3 pole, 380 V 400 V: 45 kW, 24 V DC, DC 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:  $I_e = 95$  A, Rated operational current AC-1 Conventional free air thermal current, 3 pole, 50 - 60 Hz Open at 40 °C:  $I_{th} = I_e = 120$  A, Max. rating for three-phase motors, 50 - 60 Hz AC-3 220 V 230 V: P= 30 kW, 380 V 400 V: P= 45 kW, 660 V 690 V: P= 45 kW, Can be combined with auxiliary contact: DILT-XH01 (10), DILMT95-XH11-SR, Voltage AC/DC: DC 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 [ $I_e$ ]

95 A

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

120 A

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

AC-3 220 V 230 V [P]

30 kW

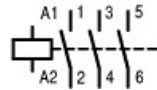
AC-3380 V 400 V [F]

45 kW

AC-3660 V 690 V [F]

45 kW

Contact sequence



Can be combined with auxiliary contact

DILT-XH101(10)

DILMT95-XH11-SR

Actuating voltage

24 V DC

Voltage AC/DC

DC operation

Connection to SmartWire-DT

no

Frame size

4

## Technical data

General

Standards

IEC/EN 60947, GB14048

Lifespan, mechanicalDC operated [Operations]

$5 \times 10^6$

Operating frequency, mechanicalDC operated [Operations/h]

3600

Climatic proofing

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

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

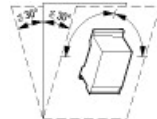
Ambient temperatureOpen

-25 - +55 °C

Ambient temperatureStorage

-40 - 80 °C

Mounting position



Degree of Protection

IP20

WeightDC operated

1.26 kg

Screw connector terminalsTerminal capacity main cableSolid

1 x (6 - 50)

2 x (6 - 25) mm<sup>2</sup>

Screw connector terminalsTerminal capacity main cableStranded

1 x (6 - 50)

2 x (6 - 25) mm<sup>2</sup>

Screw connector terminalsTerminal capacity main cableStripping length

16 mm

Screw connector terminalsTerminal capacity main cableTerminal screw

M8

Screw connector terminalsTerminal capacity main cableToolHexagon socket-head spanner [SW]

4 mm

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 cablesTerminal screw

M3.5

Screw connector terminalsTerminal capacity control circuit cablesTightening torque

1.2 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]

690 V AC

Rated operational voltage [U<sub>e</sub>]

690 V AC

Breaking capacity 380 V 400 V

760 A

AC

AC-1 Rated operational current Conventional free air thermal current, 3 pole, 50 - 60 Hz Open at 40 °C [I<sub>th</sub> = I<sub>e</sub>]

120 A

AC-3 Rated operational current Open, 3-pole: 50 – 60 Hz 220 V 230 V [I<sub>e</sub>]

95 A

AC-3 Rated operational current Open, 3-pole: 50 – 60 Hz 240 V [I<sub>e</sub>]

95 A

AC-3 Rated operational current Open, 3-pole: 50 – 60 Hz 380 V 400 V [I<sub>e</sub>]

95 A

AC-3 Rated operational current Open, 3-pole: 50 – 60 Hz 380 V 400 V [I<sub>e</sub>]

95 A

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

30 kW

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

45 kW

AC-3 Motor rating [P] 660 V 690 V [P]

45 kW

## 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<sub>s</sub> at AC 50 Hz

0 - 0 V

Rated control supply voltage U<sub>s</sub> at AC 60 Hz

0 - 0 V

Rated control supply voltage U<sub>s</sub> at DC

24 - 24 V

Voltage type for actuating

DC

Rated operation current I<sub>e</sub> at AC-1, 400 V

120 A

Rated operation current I<sub>e</sub> at AC-3, 400 V

95 A

Rated operation power at AC-3, 400 V

45 kW

Rated operation current I<sub>e</sub> 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

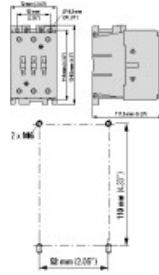
Number of main contacts as normally open contact

3

## Approvals

Specially designed for North America  
No

## Dimensions



## Product photo



Photo

Product photo

Photo

## Wiring diagram



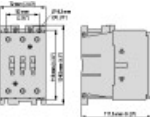
Contact sequence

Wiring diagram

Line drawing

Contacts

## Dimensions single product



2100DIM-56

Dimensions single product

Line drawing

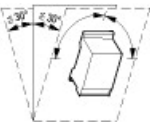


2100DIM-61

Dimensions single product

Line drawing

## 3D drawing



Mounting position

3D drawing

Line drawing

Mounting position, contactor

## Declaration of Conformity

- [DA-DC-00002909](#)  
Declaration of Conformity  
(PDF)

## CAD data

- [DA-CE-ETN.DILMT95\(RDC24\)](#)  
CAD data  
edz files  
(Web)

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