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Powering Business Worldwide

DILMT7(RDC24) - Contactor, 3 pole, 380 V 400 V: 3 kW, 24 V DC, DC operation, Screw terminals



#### 190977 DLMI7(RDC24) Overview Specifications Resources

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• Delivery program

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Design verification as per IEC/EN 61439

• Technical data ETIM 7.0

- Approvals
- Dimensions

# 190977 DILMT7(RDC24)

Contactor, 3 pole, 380 V 400 V: 3 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: Also suitable for motors with efficiency class IE3., Number of poles: 3 pole, Rated operational current AC-3 380 V 400 V: Ie= 7 A, Rated operational current AC-1 Conventional free air thermal current, 3 pole, 50 - 60 Hz Open at 40 °C. Ith =Ie= 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-XH..., Voltage AC/DC: DC operation

#### 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 [le] 7 A AC-1Conventional free air thermal current, 3 pole, 50 - 60 HzOpenat 40 °C [Ith =le] 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 [P] 3 kW Contact sequence

A1, 1<sup>1</sup>, 1<sup>3</sup>, 1<sup>5</sup> A2 2 4 6

Instructions Integrated varistor suppressor circuit. Can be combined with auxiliary contact DILT-XHI... Actuating voltage 24 V DC Voltage AC/DC DC operation Connection to SmartWire-DT no Frame size 1

#### **Technical data**

General Standards IEC/EN 60947, GB14048, EN60335-1 Lifespan, mechanicalDC operated [Operations] 10 x 10<sup>6</sup> AC-3 [Operations] 1 x 10<sup>6</sup> AC-4 [Operations]  $0.1 \times 10^{6}$ 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 330 530 Degree of Protection IP20 WeightDC operated 0.18 kg Screw connector terminals Terminal capacity main cableSolid 1 x (0.75 - 2.5) 2 x (0.75 - 2.5) mm<sup>2</sup> Screw connector terminalsTerminal capacity main cableStranded 1 x (0.75 - 2.5) 2 x (0.75 - 2.5) mm<sup>2</sup> Screw connector terminals Terminal capacity main cableStripping length 14 mm Screw connector terminals Terminal capacity main cable Terminal screw MB.5 Screw connector terminals Terminal capacity main cable Tightening torque 0.8 Nm Screw connector terminals Terminal capacity main cableToolPozidriv screw driver 2 Size Screw connector terminals Terminal capacity control circuit cables Solid 1 x (0.75 - 2.5) 2 x (0.75 - 2.5) mm<sup>2</sup> Screw connector terminals Terminal capacity control circuit cables Terminal screw MB.5

Screw connector terminals Terminal capacity control circuit cables Tightening torque 0.8 Nm Screw connector terminals Terminal capacity control circuit cables ToolPozidriv screw driver 2 Size Main conducting paths Rated impulse withstand voltage [U<sub>m</sub>] 6000 V AC Overvoltage category/pollution degree III/3 Rated insulation voltage [U] 690 V AC Rated operational voltage [Ua] 660 V AC Breaking capacity 380 V 400 V 56 A AC AC-1Rated operational currentConventional free air thermal current, 3 pole, 50 - 60 HzOpenat 40 °C [Ith = Ita] 20 A AC-3Rated operational currentOpen, 3-pole: 50 - 60 HzNotes Also tested according to AC-3e. AC-3Rated operational currentOpen, 3-pole: 50 - 60 Hz220 V 230 V [L] 7 A AC-3Rated operational currentOpen, 3-pole: 50 - 60 Hz240 V [L] 7 A AC-3Rated operational currentOpen, 3-pole: 50 - 60 Hz380 V 400 V [L] 7 A AC-3Notor rating [P]220 V 230 V [P] 2.2 kW AC-3Nbtor rating [P]380 V 400 V [P] 3 kW Magnet systems Changeover time at 100 % Us (recommended value) Main contacts DC operated Closing delay 56 - 64 ms Changeover time at 100 % Us (recommended value) Main contacts DC operated Opening delay 18 - 25 ms

### Design verification as per IEC/EN 61439

Operating ambient temperature min. -25 °C Operating ambient temperature max. +55 °C

Nh

### Technical data ETIM 7.0

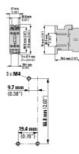
Low-voltage industrial components (EG000017) / Power contactor, AC switching (EC000066) Electric engineering, automation, process control engineering / Low-voltage switch technology / Contactor (LV) / Power contactor, AC switching (ecl@ss10.0.1-27-37-10-03 [AAB718015]) Rated control supply voltage Us at AC 50HZ 0-0V Rated control supply voltage Us at AC 60HZ 0-0V Rated control supply voltage Us at DC 24 - 24 V Voltage type for actuating DC Rated operation current le at AC-1, 400 V 20 A Rated operation current le at AC-3, 400 V 7 A Rated operation power at AC-3, 400 V 3 kW Rated operation current le 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

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



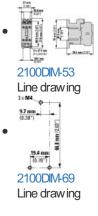
## **Product photo**



# Wiring diagram



# **Dimensions single product**



# 3D drawing



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(RDC24) File (Web)

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