197617
DILMT25(24V50/60HZ)

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-3
Notes
Also tested according to AC-3e.

AC-3
380 V 400 V [I_e]
25 A

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

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

AC-3
220 V 230 V [P]
7.5 kW

AC-3
380 V 400 V [P]
11 kW

Contact sequence

Can be combined with auxiliary contact
DILT-XHI01(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

Lifespan, mechanical
AC operated [Operations]
10×10^6

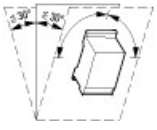
Operating frequency, mechanical
AC operated [Operations/h]
3600

Climatic proofing
Damp heat, constant, to IEC 60068-2-78
Damp heat, cyclic, to IEC 60068-2-30

Ambient temperature
Open
-25 - +55 °C

Ambient temperature
Storage
- 40 - 80 °C

Mounting position



Degree of Protection
IP20

Weight
AC operated
0.36 kg

Screw connector terminals
Terminal capacity main cable
Solid
1 x (1 - 10)
2 x (1 - 6) mm²

Screw connector terminals
Terminal capacity main cable
Stranded
1 x (1 - 4)
2 x (1 - 4) mm²

Screw connector terminals
Terminal capacity main cable
Stripping length
14 mm

Screw connector terminals
Terminal capacity main cable
Terminal screw
M5

Screw connector terminals
Terminal capacity main cable
Tightening torque
2 Nm

Screw connector terminals
Terminal capacity main cable
Tool
Pozidriv screwdriver
2 Size

Screw connector terminals
Terminal capacity control circuit cables
Solid
1 x (0.75 - 2.5)
2 x (0.75 - 2.5) mm²

Screw connector terminals
Terminal capacity control circuit cables
Terminal screw
M3.5

Screw connector terminals
Terminal capacity control circuit cables
Tightening torque
0.8 Nm

Screw connector terminals
Terminal capacity control circuit cables

Tool
Pozidriv screwdriver
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
200 A

AC

AC-1
Rated operational current
Conventional free air thermal current, 3 pole, 50 - 60 Hz
Open
at 40 °C [$I_{th} = I_e$]
35 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]
25 A

AC-3
Rated operational current
Open, 3-pole: 50 – 60 Hz
240 V [I_e]
25 A

AC-3
Rated operational current
Open, 3-pole: 50 – 60 Hz
380 V 400 V [I_e]
25 A

AC-3
Rated operational current
Open, 3-pole: 50 – 60 Hz
380 V 400 V [I_e]
25 A

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

AC-3
Motor rating [P]
380 V 400 V [P]
11 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
85 VA

Power consumption of the coil in a cold state and
1.0 x U_S
Sealing power [Sealing]
2.6 CO

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 Us at AC 50HZ
24 - 24 V

Rated control supply voltage Us at AC 60HZ
24 - 24 V

Rated control supply voltage Us at DC
0 - 0 V

Voltage type for actuating
AC

Rated operation current Ie at AC-1, 400 V
35 A

Rated operation current Ie at AC-3, 400 V
25 A

Rated operation power at AC-3, 400 V
11 kW

Rated operation current Ie 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