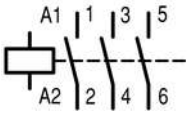
DATASHEET - DILMT40(RDC24)



Part no. DILMT40(RDC24)
Article no. 190983

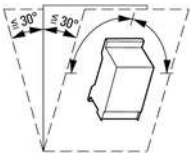
Delivery program

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	A	40
AC-1			
Conventional free air thermal current, 3 pole, 50 - 60 Hz			
Open			
at 40 °C	$I_{th} = I_e$	A	60
Max. rating for three-phase motors, 50 - 60 Hz			
AC-3			
220 V 230 V	P	kW	12.5
380 V 400 V	P	kW	18.5
660 V 690 V	P	kW	22
Contact sequence			
Can be combined with auxiliary contact			DILT-XHI01 (10) DILMT95-XHI11-SR
Actuating voltage			24 V DC
Voltage AC/DC			DC operation
Connection to SmartWire-DT			no

Technical data

General

Standards			IEC/EN 60947, GB14048
Lifespan, mechanical			
DC operated	Operations	x 10^6	5
Operating frequency, mechanical			
DC 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		°C	-25 - +55
Storage		°C	- 40 - 80

Mounting position			
Degree of Protection			IP20
Weight			
DC operated		kg	0.78
Screw connector terminals			
Terminal capacity main cable			
Solid		mm^2	1 x (2.5 - 25) 2 x (2.5 - 16)
Stranded		mm^2	1 x (2.5 - 25) 2 x (2.5 - 16)
Stripping length		mm	14
Terminal screw			M6
Tightening torque		Nm	3 6 (solid)
Tool			
Pozidriv screwdriver		Size	2
Terminal capacity control circuit cables			
Solid		mm^2	1 x (0.75 - 2.5) 2 x (0.75 - 2.5)
Stripping length		mm	14
Terminal screw			M3.5
Tightening torque		Nm	1.2
Tool			
Pozidriv screwdriver		Size	2

Main conducting paths

Rated impulse withstand voltage	U_{imp}	V AC	6000
Overvoltage category/pollution degree			III/3
Rated insulation voltage	U_i	V AC	690
Rated operational voltage	U_e	V AC	690
Breaking capacity			
380 V 400 V		A	320

AC

AC-1			
Rated operational current			
Conventional free air thermal current, 3 pole, 50 - 60 Hz			
Open			
at 40 °C	$I_{th} = I_e$	A	60
AC-3			
Rated operational current			
Open, 3-pole: 50 – 60 Hz			
220 V 230 V	I_e	A	40
240 V	I_e	A	40
380 V 400 V	I_e	A	40
380 V 400 V	I_e	A	40
Motor rating	P	kWh	
220 V 230 V	P	kW	12.5
380 V 400 V	P	kW	18.5
660 V 690 V	P	kW	22

Design verification as per IEC/EN 61439

Technical data for design verification			
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	55

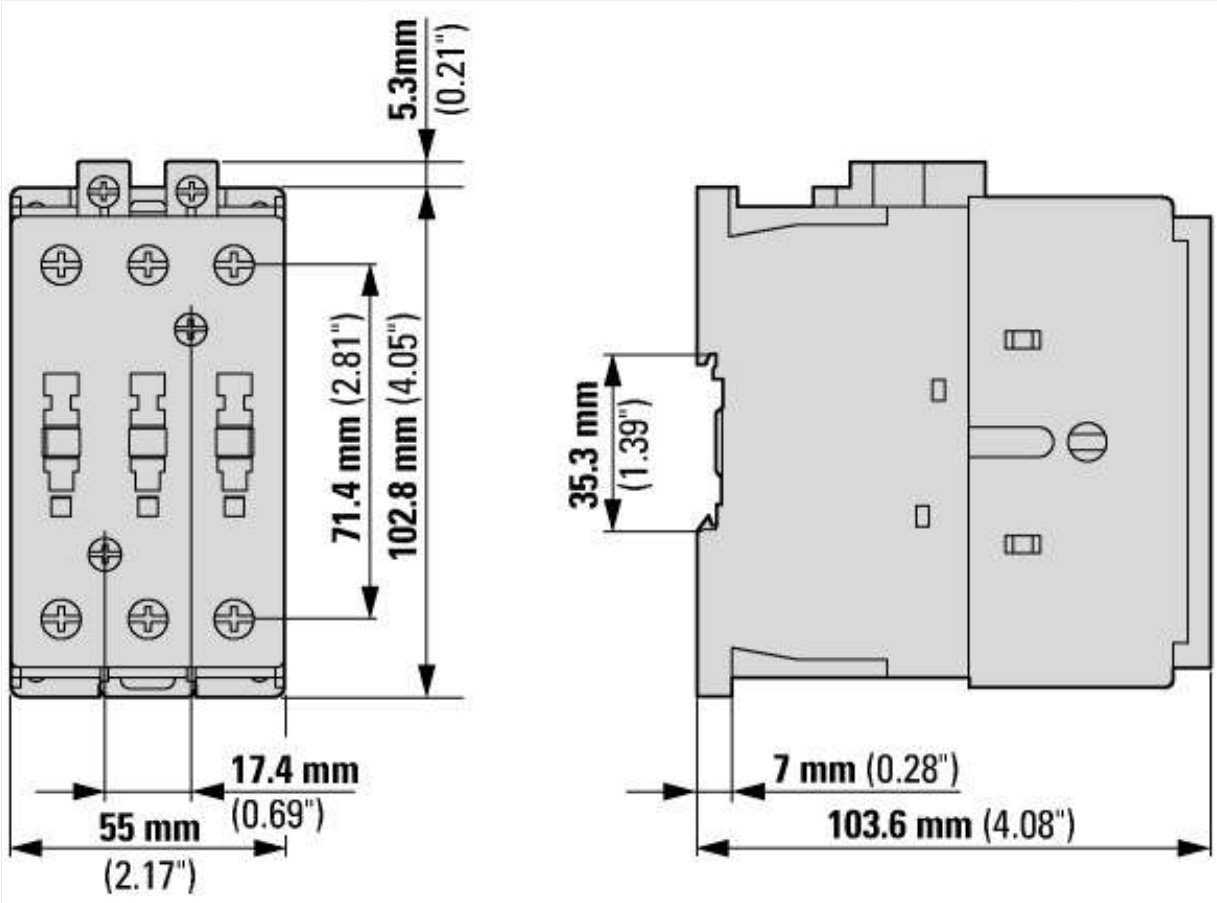
Technical data ETIM 7.0

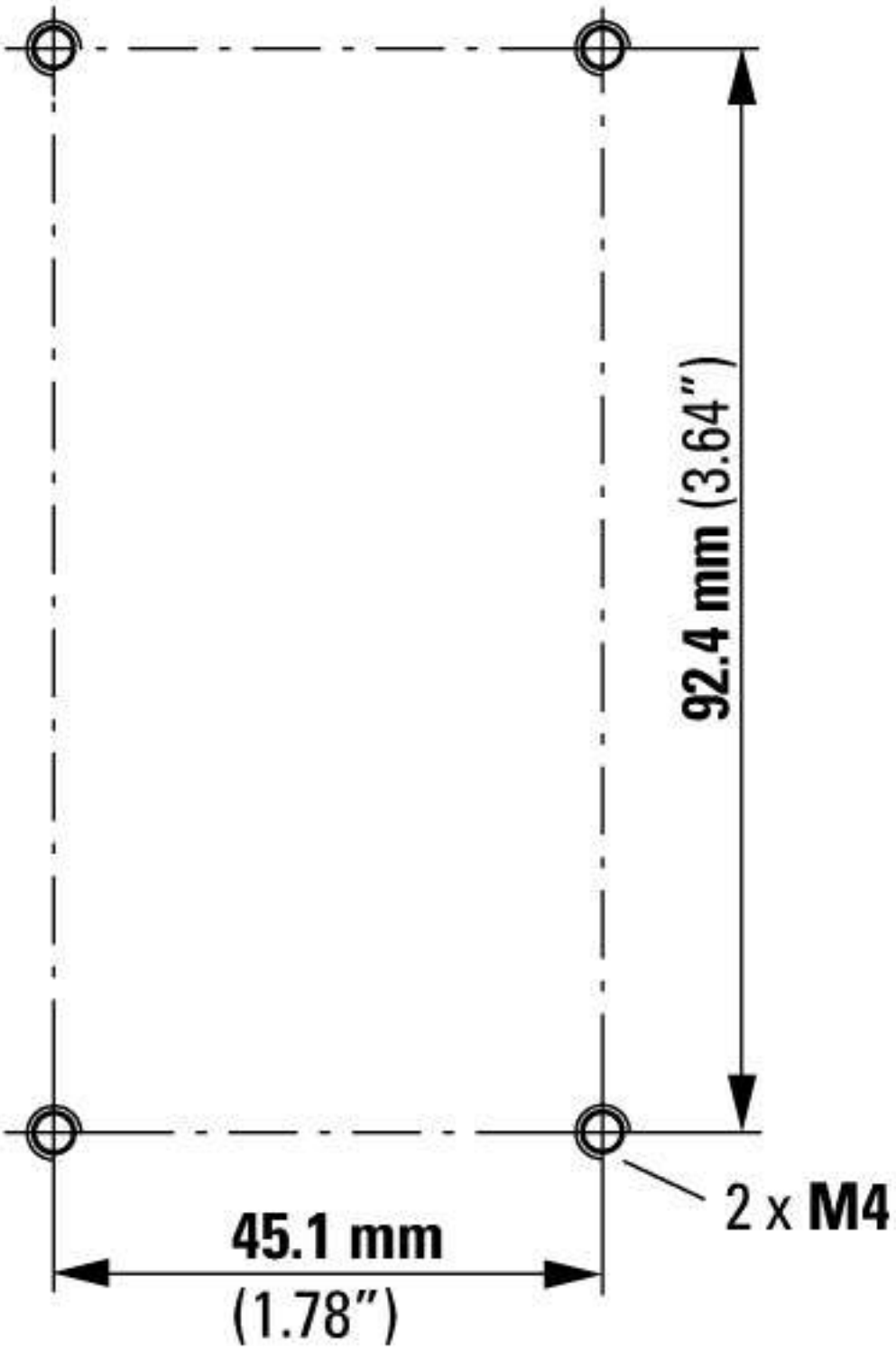
Low-voltage industrial components (EG000017) / Power contactor, AC switching (EC000066)			
Electric engineering, automation, process control engineering / Low-voltage switch technology / Contactor (LV) / Power contactor, AC switching (ecl@ss10.0.1-27-37-10-03 [AAB718015])			
Rated control supply voltage Us at AC 50HZ		V	0 - 0
Rated control supply voltage Us at AC 60HZ		V	0 - 0
Rated control supply voltage Us at DC		V	24 - 24
Voltage type for actuating			DC
Rated operation current Ie at AC-1, 400 V		A	60
Rated operation current Ie at AC-3, 400 V		A	40
Rated operation power at AC-3, 400 V		kW	18.5
Rated operation current Ie at AC-4, 400 V		A	0
Rated operation power at AC-4, 400 V		kW	0
Rated operation power NEMA		kW	0
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





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