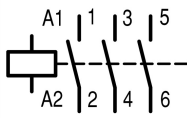




Contactor, 3 pole, 380 V 400 V: 5.5 kW, 230 V 50 Hz, 240 V 60 Hz, AC operation, Screw terminals

Part no. DILMT12(230V50HZ/240V60HZ)
Catalog No. 190996

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.
380 V 400 V	I_e	A	12
AC-1			
Conventional free air thermal current, 3 pole, 50 - 60 Hz			
Open			
at 40 °C	$I_{th} = I_e$	A	20
Max. rating for three-phase motors, 50 - 60 Hz			
AC-3			
220 V 230 V	P	kW	3.5
380 V 400 V	P	kW	5.5
Contact sequence			
Can be combined with auxiliary contact			DILT-XHI...
Actuating voltage			230 V 50 Hz, 240 V 60 Hz
Voltage AC/DC			AC operation
Connection to SmartWire-DT			no
Frame size			1

Technical data

General			
Standards			IEC/EN 60947, GB14048, EN60335-1
Lifespan, mechanical			
AC operated	Operations	$\times 10^6$	10
AC-3	Operations	$\times 10^6$	1
AC-4	Operations	$\times 10^6$	0.1
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		°C	-25 - +55
Storage		°C	- 40 - 80

Mounting position			
Degree of Protection			IP20
Weight			
AC operated		kg	0.18
Screw connector terminals			
Terminal capacity main cable			
Solid		mm ²	1 x (0.75 - 2.5) 2 x (0.75 - 2.5)
Stranded		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	0.8
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)
Terminal screw			M3.5
Tightening torque		Nm	0.8
Tool			
Pozidriv screwdriver		Size	2

Main conducting paths

Rated impulse withstand voltage	U_{imp}	V AC	6000
Overtoltage category/pollution degree			III/3
Rated insulation voltage	U_i	V AC	690
Rated operational voltage	U_e	V AC	660
Breaking capacity			
380 V 400 V		A	96

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	20
AC-3			
Rated operational current			
Open, 3-pole: 50 – 60 Hz			
Notes			Also tested according to AC-3e.
220 V 230 V	I_e	A	12
240 V	I_e	A	12
380 V 400 V	I_e	A	12
Motor rating	P	kWh	
220 V 230 V	P	kW	3.5
380 V 400 V	P	kW	5.5

Magnet systems

Voltage tolerance			
AC operated	Pick-up	x U_c	0.85 - 1.1
Power consumption of the coil in a cold state and 1.0 x U_S			
50 Hz	Pick-up	VA	35
50 Hz	Sealing	VA	6.5
50 Hz	Sealing	W	2.3
60 Hz	Pick-up	VA	30

60 Hz	Sealing	VA	6
60 Hz	Sealing	W	2.1
50/60 Hz	Pick-up	VA	0
50/60 Hz	Sealing	VA	0
50/60 Hz	Sealing	W	0

Design verification as per IEC/EN 61439

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

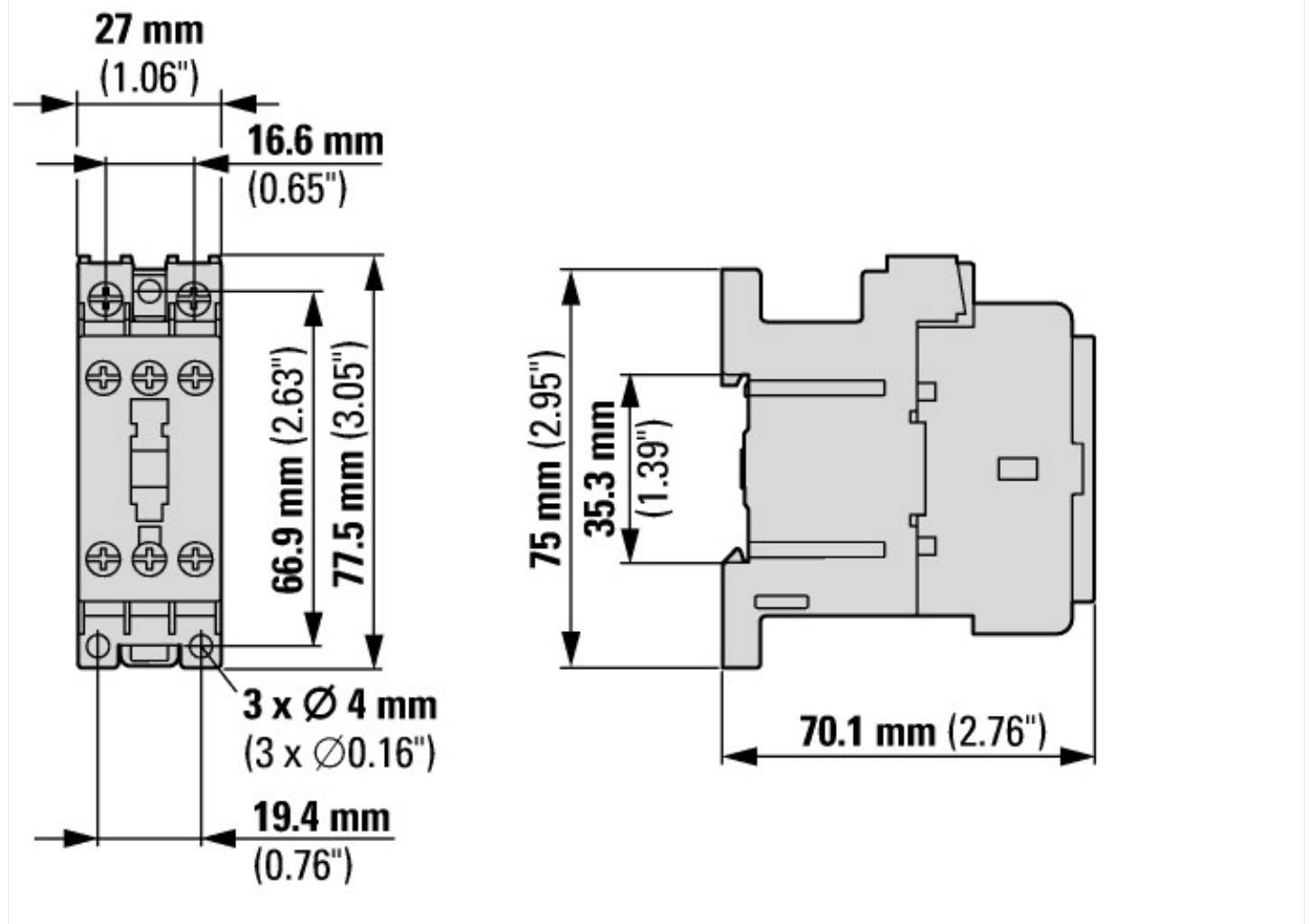
Technical data ETIM 7.0

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	230 - 230
Rated control supply voltage Us at AC 60HZ		V	240 - 240
Rated control supply voltage Us at DC		V	0 - 0
Voltage type for actuating			AC
Rated operation current Ie at AC-1, 400 V		A	20
Rated operation current Ie at AC-3, 400 V		A	12
Rated operation power at AC-3, 400 V		kW	5.5
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



3 x M4

9.7 mm
(0.38")

19.4 mm
(0.76")

66.8 mm (2.63")

