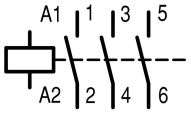
DATASHEET - DILMT95(230V50HZ/240V60HZ)

Contactor, 3 pole, 380 V 400 V: 45 kW, 230 V 50 Hz, 240 V 60 Hz, AC operation, Screw terminals

Powering Business Worldwide™

Part no. DILMT95(230V50HZ/240V60HZ)
Catalog No. 190966

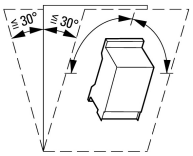
Delivery program

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	95
AC-1			
Conventional free air thermal current, 3 pole, 50 - 60 Hz			
Open			
at 40 °C	$I_{th} = I_e$	A	120
Max. rating for three-phase motors, 50 - 60 Hz			
AC-3			
220 V 230 V	P	kW	30
380 V 400 V	P	kW	45
660 V 690 V	P	kW	45
Contact sequence			
Can be combined with auxiliary contact			DILT-XHI01(10) DILMT95-XHI11-SR
Actuating voltage			230 V 50 Hz, 240 V 60 Hz
Voltage AC/DC			AC operation
Connection to SmartWire-DT			no
Frame size			4

Technical data

General

Standards			IEC/EN 60947, GB14048, EN60335-1
Lifespan, mechanical			
AC operated	Operations	x 10^6	5
AC-3	Operations	x 10^6	0.9
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	1.26
Screw connector terminals			
Terminal capacity main cable			
Solid		mm^2	1 x (6 - 50) 2 x (6 - 25)
Stranded		mm^2	1 x (6 - 50) 2 x (6 - 25)
Stripping length		mm	16
Terminal screw			M8
Tightening torque		Nm	6
Tool			
Hexagon socket-head spanner	SW	mm	4
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	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	760

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	120
AC-3			
Rated operational current			
Open, 3-pole: 50 – 60 Hz			
220 V 230 V	I_e	A	95
240 V	I_e	A	95
380 V 400 V	I_e	A	95
Motor rating	P	kWh	
220 V 230 V	P	kW	30
380 V 400 V	P	kW	45
660 V 690 V	P	kW	45

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	350
50 Hz	Sealing	VA	34
50 Hz	Sealing	W	9
60 Hz	Pick-up	VA	300

60 Hz	Sealing	VA	26
60 Hz	Sealing	W	8
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	120
Rated operation current Ie at AC-3, 400 V		A	95
Rated operation power at AC-3, 400 V		kW	45
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