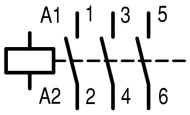


Contactor, 3p, 12A, for lamp load (HQL)

Part no.	**DILL12(230V50HZ,240V60HZ)**
Article no.	**104402**
Catalog No.	**XTCT012C00F**

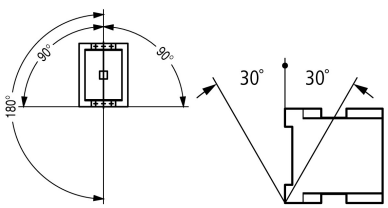
Powering Business Worldwide

Delivery programme

Product range			DILL Lighting contactors
Application			Contactors for lighting systems
Utilization category			AC-1: Nicht induktive oder schwach induktive Last, Widerstandsöfen
Rated operational current			
AC-5a			
220 V 230 V	I_e	A	12
380 V 400 V	I_e	A	12
AC-5b			
220 V 230 V	I_e	A	14
380 V 400 V	I_e	A	14
AC-1			
Conventional free air thermal current, 3 pole, 50 - 60 Hz			
Open			
at 40 °C	$I_{th} = I_e$	A	27
Contact sequence			
Actuating voltage			230 V 50 Hz, 240 V 60 Hz

Technical data

General

Standards			IEC/EN 60947, VDE 0660, UL, CSA
Lifespan, mechanical			
AC operated	Operations	x 10^6	1
Operating frequency, mechanical			
AC operated	Operations/h		60
Maximum operating frequency		Ops./h	
Electrical	Operations/h		60
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Ambient temperature		°C	
Open		°C	- 25 - 60
Enclosed		°C	- 25 - 40
Storage		°C	- 40 - 80
Mounting position			
Mechanical shock resistance (IEC/EN 60068-2-27)			
Half-sinusoidal shock, 10 ms			
Mechanical shock resistance		g	6.9
Degree of Protection			IP00
Weight			

AC operated		kg	0.42

Main conducting paths

Rated impulse withstand voltage	U_{imp}	V AC	8000
Overvoltage category/pollution degree			III/3
Rated insulation voltage	U_i	V AC	690
Rated operational voltage	U_e	V AC	690
Making capacity		A	238
Breaking capacity	380 … 400 V	A	170
Lifespan, electrical	Operations		10000
Short-circuit protection maximum fuse			
400 V	gG/gL 500 V	A	63

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	27
at 60 °C	$I_{th} = I_e$	A	24
AC-5a operation			
220 V 230 V	I_e	A	12
380 V 400 V	I_e	A	12
AC-5b operation			
220 V 230 V	I_e	A	14
380 V 400 V	I_e	A	14
380 V 400 V	I_e	A	14
Electric lamps			
Filament bulbs		A	14
Mercury blended lamps		A	12
Fluorescent lamp load 10 x 58 W at 230/240 V AC			
Conventional reactor starter circuit		A	20
Duo circuit		A	20
Electronic upstream devices		A	12
High-pressure mercury vapour lamps		A	12
Metal-halide lamps		A	12
High-pressure sodium lamps		A	12
Low-pressure sodium lamps		A	7.5
Maximum permissible compensation capacitance		µF	470

Additional technical data

like the contactar	DIL		M17

Data for design verification according to IEC/EN 61439

Technical data for design verification			
Equipment heat dissipation, current-dependent	P_{vid}	W	0
Static heat dissipation, non-current-dependent	P_{vs}	W	2.1
Heat dissipation capacity	P_{diss}	W	0
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures			Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat			Meets the product standard's requirements.
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects			Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation			Meets the product standard's requirements.
10.2.5 Lifting			Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact			Does not apply, since the entire switchgear needs to be evaluated.

10.2.7 Inscriptions			Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES			Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances			Meets the product standard's requirements.
10.5 Protection against electric shock			Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components			Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections			Is the panel builder's responsibility.
10.8 Connections for external conductors			Is the panel builder's responsibility.
10.9 Insulation properties			
10.9.2 Power-frequency electric strength			Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage			Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material			Is the panel builder's responsibility.
10.10 Temperature rise			The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating			Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function			The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

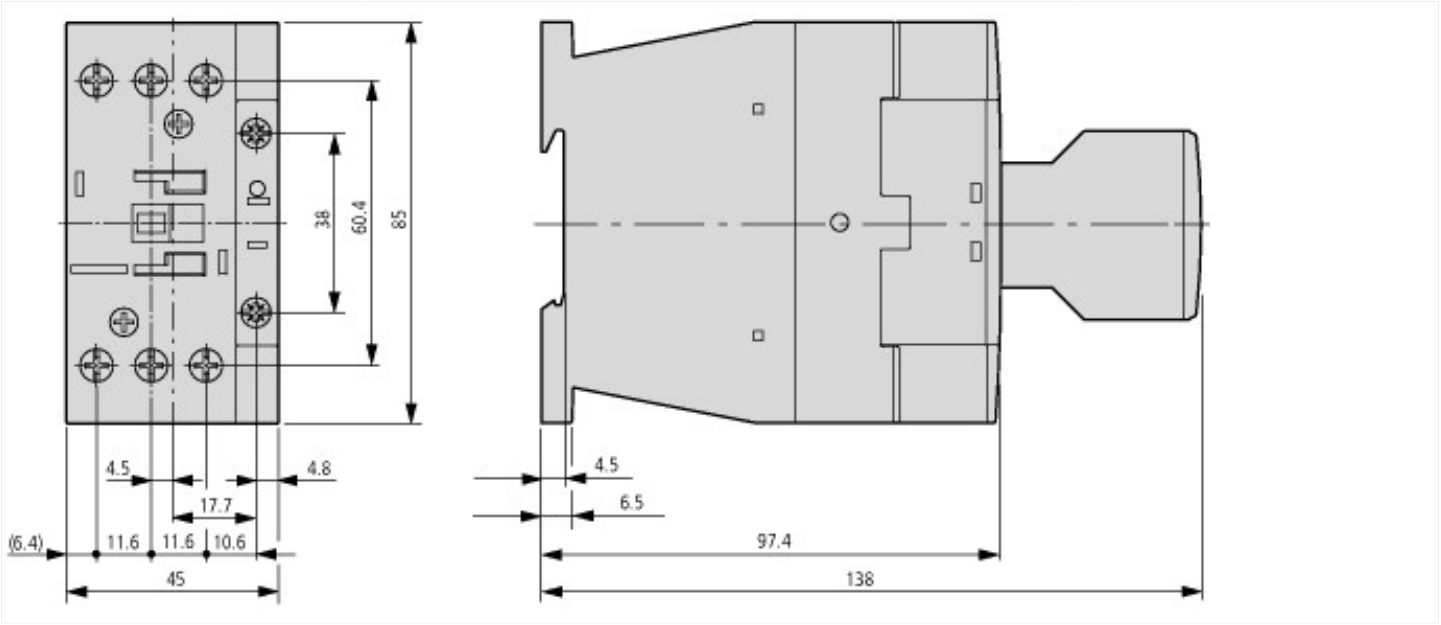
Technical data ETIM 5.0

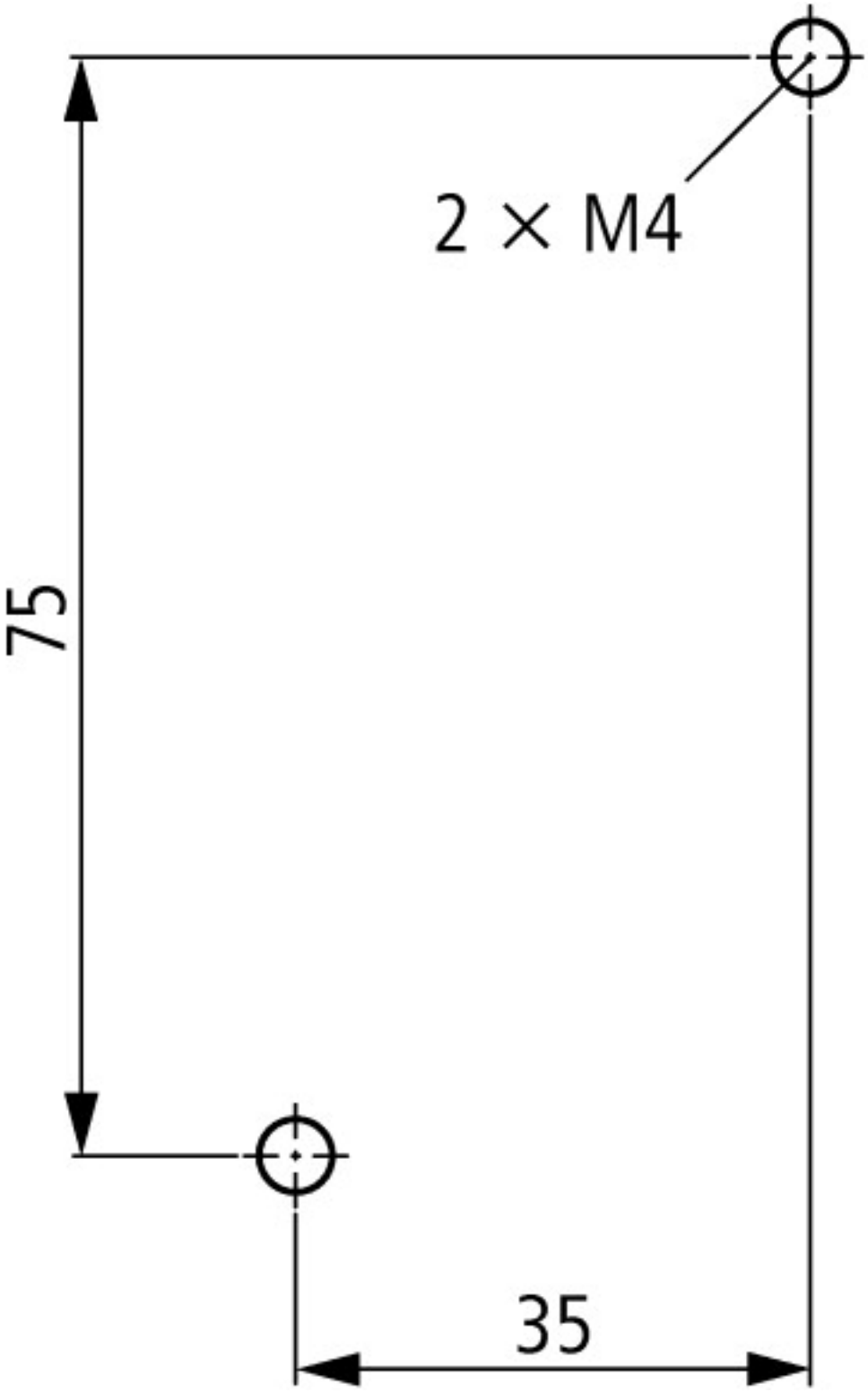
Low-voltage industrial components (EG000017) / Magnet contactor, AC-switching (EC000066)			
Electric engineering, automation, process control engineering / Low-voltage switch technology / Contactor (LV) / Power contactor, AC switching (ecl@ss8-27-37-10-03 [AAB718011])			
Rated control supply voltage 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	12
Rated operation current Ie at AC-3, 400 V		A	0
Rated operation power at AC-3, 400 V		kW	0
Rated operation current Ie at AC-4, 400 V		A	0
Rated operation power Ie at AC-4, 400 V		kW	0
Modular version			No
Number of auxiliary contacts as normally open contact			0
Number of auxiliary contacts as normally closed contact			0
Connection type main current circuit			Screw connection
Number of normally closed contacts as main contact			0
Number of main contacts as normally open contact			3

Approvals

Product Standards			IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking
UL File No.			E29096
UL Category Control No.			NLDX
CSA File No.			012528
CSA Class No.			3211-04
North America Certification			UL listed, CSA certified
Specially designed for North America			No

Dimensions





distance at side to earthed parts: 6 mm	
DILL12…20	

Additional product information (links)

IL03407047Z (AWA2100-2322) Lighting contactors	
IL03407047Z (AWA2100-2322) Lighting contactors	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03407047Z2010_10.pdf

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