

Contactor for 3ph three-phase capacitors, 20kVAR

Part no. Article no. Catalog No. DILK20-11(400V50HZ,440V60HZ) 294012 XTCC020C11N



Delivery program

		DILK Contactors for capacitors
		Contactors for power factor correction
ł	kVAr	11
ł	kVAr	20
ł	kVAr	25
ł	kVAr	33.3
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		400 V 50 Hz, 440 V 60 Hz
		kVAr kVAr kVAr kVAr

Technical data

General			
Standards			IEC/EN 60947
Ambient temperature			
Open		°C	-25 - +60
Enclosed		°C	- 25 - 40
Mounting position			
Degree of Protection			IP00
Protection against direct contact when actuated from front (EN 50274)			Finger and back-of-hand proof
Weight basic unit			
AC operated		kg	0.55
Terminal capacity main cable			
Solid		mm ²	1 x (0.75 - 16)
Flexible with ferrule		mm ²	1 x (0.75 - 16)
Stranded		mm ²	1 x 16
Solid or stranded		AWG	18 - 6
Flat conductor	Lamellenzahl x Breite x Dicke	mm	
Rated power of three-phase capacitors			
230 V		kVAr	11
400.1/		k)/A r	20

 230 V
 KVAr
 1

 400 V
 KVAr
 20

 525 V
 KVAr
 25

 690 V
 KVAr
 33

 Rated operational current l_e of three-phase capacitors
 F
 F

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 Image: Second s

230 V	1	А	29
	l _e		
400 V	le	A	29
525 V	le	A	29
690 V	le	A	29
of three-phase capacitors enclosed	le		
230 V	le	А	26
400 V	l _e	А	26
525 V	le	А	26
690 V	I _e	А	26
Making capacity (i-peak value) without damping		x I _e	180
Component lifespan	Operations	x 10 ⁶	0.15
Maximum operating frequency		Ops./h	
Max. operating frequency		Ops/h	120
Magnet systems			
Voltage tolerance			
AC operated	Pick-up	x U _c	0.8 - 1.1
Drop-out voltage AC operated	Drop-out	x U _c	0.3 - 0.6
Power consumption of the coil in a cold state and 1.0 x $\rm U_{c}$			
50 Hz	Pick-up	VA	58
50 Hz	Sealing	VA	7.6
50 Hz	Sealing	W	2.3
60 Hz	Pick-up	VA	71
60 Hz	Sealing	VA	9.3
60 Hz	Sealing	W	2.8
50/60 Hz	Pick-up	VA	65 59
50/60 Hz	Sealing	VA	9.6 7
50/60 Hz	Sealing	W	2.7 2.2
Duty factor		% DF	100
Changeover time at 100 % U_{C} (recommended value)			
Main contacts			
AC operated			
Closing delay		ms	16 - 22
Opening delay		ms	8 - 14
Arcing time		ms	10
Electromagnetic compatibility (EMC)			
Emitted interference			according to EN 60947-1
Interference immunity			according to EN 60947-1
Additional technical data			
like the contactar	DIL		M25

Design verification as per IEC/EN 61439

In	А	29
P _{vid}	W	1.8
P _{vid}	W	5.4
P _{vs}	W	2.1
P _{diss}	W	0
	°C	-25
	°C	60
		Meets the product standard's requirements.
	P _{vid} P _{vid} P _{vs}	P _{vid} W P _{vid} W P _{vs} W P _{diss} W °C

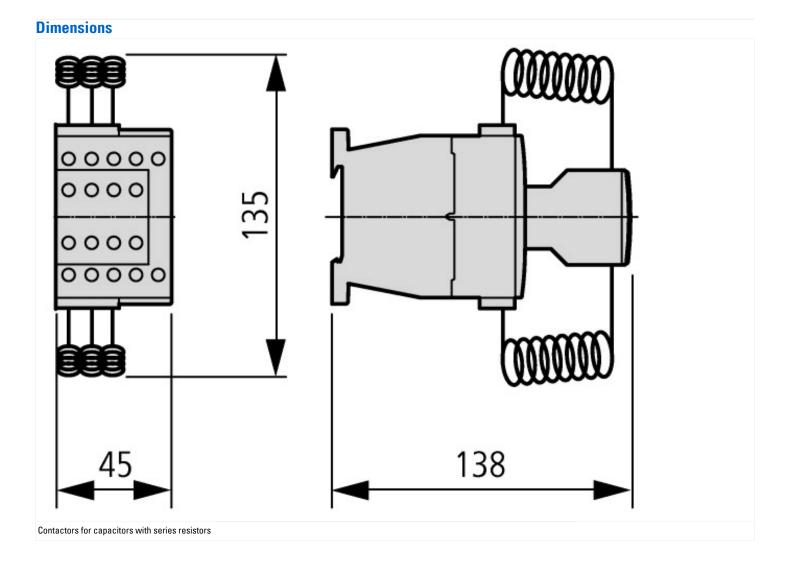
10.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product standard's requirements.
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire 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.

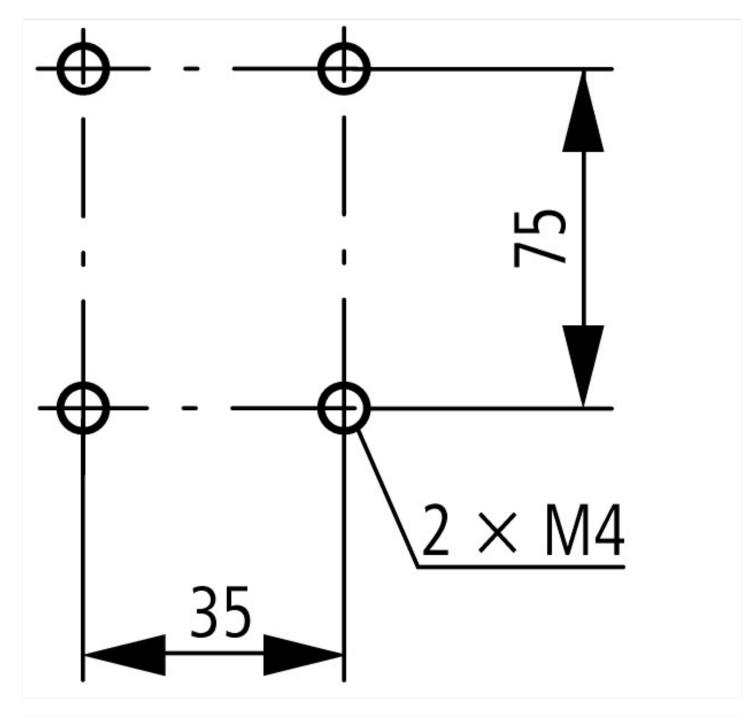
Technical data ETIM 6.0

Low-voltage industrial components (EG000017) / Capacitor contactor (EC001079)			
Electric engineering, automation, process control engineering / Low-voltage switch technology / Contactor (LV) / Capacitor contactor (ecl@ss8.1-27-37-10-06 [AGZ569012])			
Rated control supply voltage Us at AC 50HZ		V	400 - 400
Rated control supply voltage Us at AC 60HZ		V	440 - 440
Rated control supply voltage Us at DC		V	0 - 0
Voltage type for actuating			AC
Number of auxiliary contacts as normally open contact			1
Number of auxiliary contacts as normally closed contact			1
Type of electrical connection of main circuit			Screw connection
Number of main contacts as normally open contact			3
Number of normally closed contacts as main contact			0
Rated blind power at 400 V, 50 Hz		kvar	20

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





Additional product information (links)

 IL03407038Z (AWA2100-2272) Contactor for capacitors

 IL03407038Z (AWA2100-2272) Contactor for capacitors

 UL/CSA: UL/CSA: Special Purpose Rating

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