DATASHEET - DILK25-11(400V50HZ,440V60HZ)



Contactor for capacitors, with series resistors, 25 kVAr, 400 V 50 Hz, 440 V 60 Hz $\,$



Part no. Catalog No. Alternate Catalog No.

DILK25-11(400V50HZ,440V60HZ) 294034 Dg XTCC025C11N

Delivery program

Product range			DILK Contactors for capacitors
Application			Contactors for power factor correction
Description			with series resistors
Rated power of AC-6b three-phase capacitors, 50 - 60 Hz			
Open			
230 V	۵	kVAr	15
400 V	٥	kVAr	25
525 V	٥	kVAr	33.3
690 V	٥	kVAr	40
Contact sequence			$\begin{array}{c} & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & & \\ & & & \\ & & & & \\ & & &$
Actuating voltage			400 V 50 Hz, 440 V 60 Hz

Instructions In the case of group compensation multi-stage capacitor banks are connected to the mains, as required. Transient currents of up to 180 × le could flow between the capacitors. The capacitors are pre-charged via the early-make auxiliary contacts and the fitted wire resistors, thereby reducing the inrush current. The main contacts then close in a time-delayed manner and bring about the continuous current. Due to their special contacts, the contactors for the capacitors are weld-resistant for capacitors with inrush current peaks. Due to their special contacts are weld-resistant for capacitors with inrush current peaks used to the resistant for capacitors with inrush current peaks.

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
Altitude		m	Max. 2000
Weight basic unit			
AC operated		kg	0.51
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 AC-6b three-phase capacitors, 50 - 60 Hz

Open

230 V	۵	kVAr	15
400 V	۵ ۵	kVAr	25
525 V	۵ ۵	kVAr	33.3
690 V	٥	kVAr	40
Rated operational current I _e of three-phase capacitors	u	NAI	
Open 230 V		^	38
	l _e	A	
400 V	l _e	A	38
525 V	l _e	A	38
690 V	l _e	A	38
of three-phase capacitors enclosed	l _e		
230 V	le	Α	34
400 V	le	Α	34
525 V	l _e	А	34
690 V	l _e	A	34
Making capacity (i-peak value) without damping		x l _e	180
Component lifespan	Operations	x 10 ⁶	0.15
Maximum operating frequency		x iu Ops./h	
Maximum operating frequency Max. operating frequency		Ops/h	120
Magnet systems		049/11	
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 ${\rm U}_{\rm S}$		- 0	
50 Hz	Pick-up	VA	58
50 Hz	Sealing	VA	7.6
50 Hz	Sealing	W	2.1
60 Hz	Pick-up	VA	71
60 Hz	Sealing	VA	9.3
60 Hz	Sealing	W	2.1
Duty factor	Seaming	% DF	100
Changeover time at 100 % U _S (recommended value)		/0 D1	
Main contacts			
AC operated Closing delay			16 - 22
Opening delay		ms	8 - 14
Arcing time		ms	10
Current heat losses (3- or 4-pole)		ms	10
Open			
at I _e to AC-3/400 V		W	9.3
at I _e to AC-3/400 V		W	9.3
Impedance per pole		mΩ	2.65
Electromagnetic compatibility (EMC)			
Emitted interference			according to EN 60947-1
Interference immunity			according to EN 60947-1
Rating data for approved types			
Auxiliary contacts			
Pilot Duty			
AC operated			A600
DC operated			P300
General Use			
AC		V	600
AC		А	10
DC		V	250
DC		А	1

Special Purpose Ratings			
Capacitor Switching			
240V 60Hz 3phase	Ļ	4	36
240V 60Hz 3phase	k	kVar	15
480V 60Hz 3phase	Ļ	4	36
480V 60Hz 3phase	k	kVar	30
600V 60Hz 3phase	ŀ	4	38.4
600V 60Hz 3phase	k	kVar	40

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	38
Heat dissipation per pole, current-dependent	P _{vid}	W	3.1
Equipment heat dissipation, current-dependent	P _{vid}	W	9.3
Static heat dissipation, non-current-dependent	P _{vs}	W	2.1
Heat dissipation capacity	P _{diss}	w	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	60
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 6.0

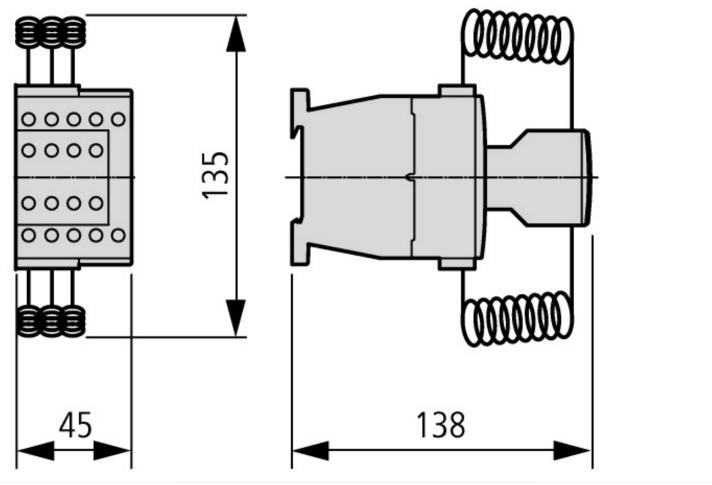
Low-voltage industrial components (EG000017) / Capacitor contactor (EC001079)					
Electric engineering, automation, process control engineering / Low-voltage switch technology / Contactor (LV) / Capacitor contactor (ecl@ss8.1-27-37-10-06 [AGZ569012])					
Rated control supply voltage Us at AC 50HZ V 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					
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	25

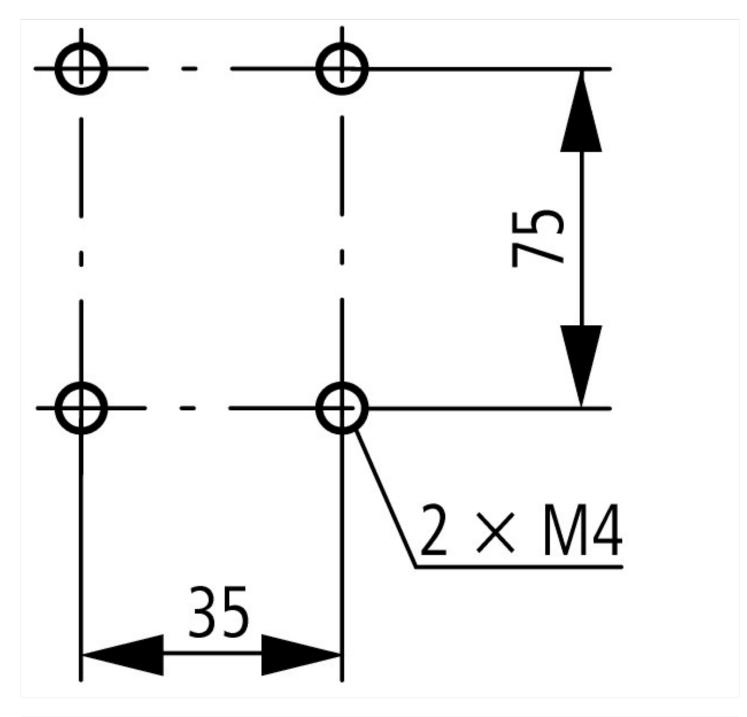
Approvals

UL File No.E29096UL Category Control No.NLDXCSA File No.012528CSA Class No.Sale Category Control No.Noth America CertificationSale Category Control No.		
UL Category Control No. NLDX CSA File No. 12528 CSA Class No. 3211-04 North America Certification UL listed, CSA certified	Product Standards	IEC/EN 60947-4-1; UL 60947-4-1; CSA - C22.2 No. 60947-4-1-14; CE marking
CSA File No. 012528 CSA Class No. 3211-04 North America Certification Image: CSA certified	UL File No.	E29096
CSA Class No. 3211-04 North America Certification UL listed, CSA certified	UL Category Control No.	NLDX
North America Certification UL listed, CSA certified	CSA File No.	012528
	CSA Class No.	3211-04
Specially designed for North America No	North America Certification	UL listed, CSA certified
	Specially designed for North America	No

Dimensions



Contactors for capacitors with series resistors



Additional product information (links)

IL03407038Z (AWA2100-2272) Contactor for capacitors

IL03407038Z (AWA2100-2272) Contactor for capacitors https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL03407038Z2018_06.pdf