DATASHEET - DILK33-10(110V50HZ,120V60HZ)



Contactor for capacitors, with series resistors, 33.3 kVAr, 110 V 50 Hz, 120 V 60 Hz $\,$



Part no. DILK33-10(110V50HZ,120V60HZ)

Catalog No. 294051 Alternate Catalog XTCC033D10A

No

Delivery program

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	20
400 V	Q	kVAr	33.3
525 V	Q	kVAr	40
690 V	Q	kVAr	55
Contact sequence			A1
Actuating voltage			110 V 50 Hz, 120 V 60 Hz
Instance the second sec			Transit Transit of the transit of th

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, the contactors for capacitors are weld-resistant for capacitors with inrush current peaks up to 180 × I_e.

Technical data

General

General			
Standards			IEC/EN 60947
Ambient temperature			
Open		°C	-25 - +60
Enclosed		°C	- 25 - 40
Mounting position			30°
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	1.171
Terminal capacity main cable			
Solid		mm^2	1 x (2.5 - 16)
Flexible with ferrule		mm^2	1 x (2.5 - 35)
Stranded		mm^2	1 x (16 - 50)
Solid or stranded		AWG	12 - 2
Flat conductor	Lamellenzahl x Breite x Dicke	mm	1 x (6 x 9 x 0.8)

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Open			
230 V	Q	kVAr	20
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lated operational current l _e of three-phase capacitors			
Open			
230 V	I _e	A	50
400 V	I _e	A	50
525 V			
	l _e	A	50
690 V	l _e	Α	50
of three-phase capacitors enclosed	l _e		
230 V	l _e	Α	45
400 V	l _e	Α	45
525 V	l _e	Α	45
690 V	le	Α	45
Naking 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
lagnet systems		Ороди	120
oltage tolerance			
AC operated	Pick-up	x U _c	0.8 - 1.15
Drop-out voltage AC operated	Drop-out	x U _c	0.3 - 0.6
ower consumption of the coil in a cold state and 1.0 x U _S		•	
50 Hz	Pick-up	VA	45
50 Hz	Sealing	VA	1.5
50 Hz	Sealing	W	4.1
60 Hz	Pick-up	VA	45
60 Hz	Sealing	VA	1.5
60 Hz	Sealing	W	4.1
outy factor	County	% DF	100
changeover time at 100 % U _S (recommended value)		70 51	
Main contacts			
AC operated			
		me	
Closing delay Switching times of main contacts AC operated Closing delay, min.		ms ms	50
Opening delay			
Switching times of main contacts AC operated Opening delay, min.		ms me	40
Switching times of main contacts AC operated Opening delay, min.		ms ms	10
lectromagnetic compatibility (EMC)		III3	10
mitted interference			according to EN 60947-1
nterference immunity			according to EN 60947-1
dditional technical data			
ke the contactar	DIL		M50
ating data for approved types			
uxiliary contacts			
Pilot Duty			
AC operated			A600
DC operated			P300
General Use			
AC		V	600
AC		Α	10

DC	V	250
DC	А	1
Special Purpose Ratings		
Capacitor Switching		
240V 60Hz 3phase	А	48
240V 60Hz 3phase	kVar	20
480V 60Hz 3phase	Α	48
480V 60Hz 3phase	kVar	40
600V 60Hz 3phase	А	48
600V 60Hz 3phase	kVar	50

Design verification as per IEC/EN 61439

2001gii 1011110441011 40 poi 120, 211 01 100			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	40
Heat dissipation per pole, current-dependent	P _{vid}	W	2.2
Equipment heat dissipation, current-dependent	P _{vid}	W	6.6
Static heat dissipation, non-current-dependent	P _{vs}	W	4.1
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

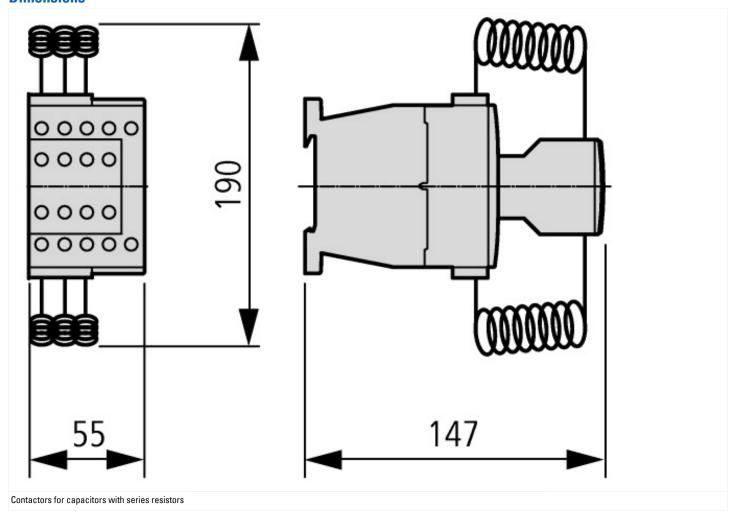
Low-voltage industrial components (EG000017) / Capacitor contactor (EC001079)			
Electric engineering, automation, process control engineering / Low-voltage switch technology / Contactor (LV) / Capacitor contactor (ecl@ss8.1-27-37-10-06 [AGZ569012])			
Rated control supply voltage Us at AC 50HZ	V	110 - 110	
Rated control supply voltage Us at AC 60HZ	V	120 - 120	
Rated control supply voltage Us at DC	V	0 - 0	
Voltage type for actuating		AC	

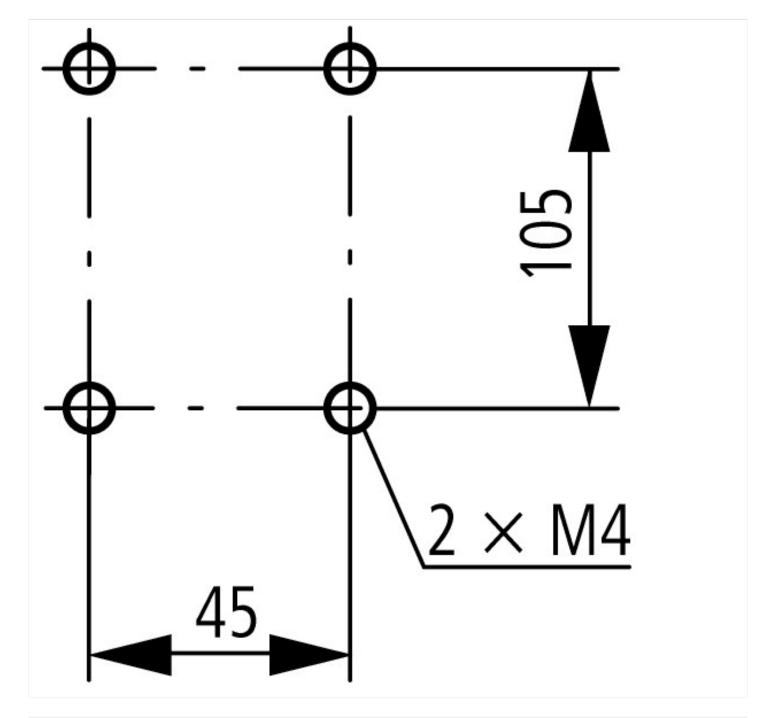
Number of auxiliary contacts as normally open contact		1
Number of auxiliary contacts as normally closed contact		0
Type of electrical connection of main circuit		Screw connection
Number of main contacts as normally open contact		3
Number of normally closed contacts as main contact		0
Rated blind power at 400 V, 50 Hz	kvar	33.3

Approvals

Product Standards	IEC/EN 60947-4-1; UL 60947-4-1; CSA - C22.2 No. 60947-4-1-14; 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





Assets (links)

Declaration of CE Conformity

00002884

Instruction Leaflets

IL03407038Z2018_06

Additional product information (links)

IL03407038Z (AWA2100-2272) Contactor for capacitors

IL03407038Z (AWA2100-2272) Contactor for capacitors

 $ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03407038Z2018_06.pdf$