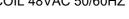


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CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, electric INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 12.5KVAR, COIL 48VAC 50/60HZ





Product designation				Power contactor
Product type designation				BFK12
Contact characteristics				
Number of poles			Nr.	3
Rated insulation voltag			V	690
Rated impulse withstar			kV	6
Operational frequency				
		min	Hz	25
		max	Hz	400
IEC Conventional free	air thermal current Ith		Α	28
Rated operational pow	rer AC-6b (T≤40°C)			
		230V	kvar	7
		400V	kvar	12.5
		440480V	kvar	14
		690V	kvar	16
Short-time allowable co	urrent for 10s (IEC/EN60947-1)		Α	150
Protection fuse				
		gG (IEC)	Α	25
Making capacity (RMS	value)		Α	120
Breaking capacity at vo	oltage			
		440V	Α	96
		500V	Α	96
		690V	Α	94
Resistance per pole (average value)			mΩ	2.5
Power dissipation per pole (average value)				
		Ith	W	2
Tightening torque for terminals				
		min	Nm	1.5
		max	Nm	1.8
		min	lbin	1.1
		max	lbin	1.5
Tightening torque for c	oil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	0.8
		max	lbin	0.74
Max number of wires s	imultaneously connectable		Nr.	2
Conductor section	•			
	AWG/Kcmil			
		max		10
	Flexible w/o lug conductor section			
	3	min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section			
	2 112 2.11 129 221124010. 00010	min	mm²	1



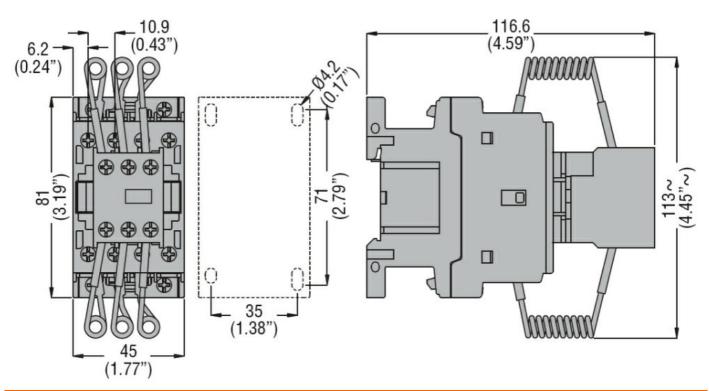
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	max	mm²	4
Flexible with insulated spade lug conductor sect	ion		
	min	mm²	1
	max	mm²	4
Power terminal protection according to IEC/EN 60529			IP20 when properly wired
Mechanical features			
Operating position			
	normal allowable		Vertical plan ±30°
Fixing			Screw / DIN rail 35mm
Weight		g	416
Conductor section			
AWG/kcmil conductor section			
	max		10
Auxiliary contact characteristics			
Thermal current Ith		Α	10
IEC/EN 60947-5-1 designation			A600 - P600
Operating current AC15			
	230V	Α	3
	400V	Α	1.9
	500V	Α	1.4
Operating current DC12	110V	Α	5.7
Operating current DC13			_
	24V	Α	5.7
	48V	Α	2.9
	60V	Α	2.3
	110V	Α	1.25
	125V	A	1.1
	220V 600V	A	0.6
Operations	6007	Α	0.1
Mechanical life		cycles	20000000
Electrical life		cycles	400000
Safety related data		Cyclod	100000
Performance level B10d according to EN/ISO 13489-1			
J	rated load	cycles	400000
	mechanical load	cycles	20000000
Mirror contats according to IEC/EN 609474-4-1			YES
EMC compatibility			yes
AC coil operating			
Rated AC voltage at 50/60Hz		V	48
AC operating voltage			
of 50/60Hz coil powered at 50Hz			
pick-up	:	0/11-	90
	min	%Us %Us	80 110
drop-out	max	/oUS	110
urop-out	min	%Us	20
	max	%Us	55
of 50/60Hz coil powered at 60Hz			-
pick-up			
• •			



%Us 85 min max %Us 110 drop-out %Us 20 min %Us 55 max AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 75 holding VA 9 of 50/60Hz coil powered at 60Hz VA 70 in-rush holding VA 6.5 of 60Hz coil powered at 60Hz in-rush VA 75 holding VA 9 Dissipation at holding ≤20°C 50Hz W 2.5 Max cycles frequency Mechanical operation cycles/h 3600 Operating times Average time for Us control in AC Closing NO 8 min ms 24 max ms Opening NO 10 min ms 20 max ms Closing NC 14 min ms max ms 28 UL technical data General USE Contactor AC current Α 28 Auxiliary contacts AC voltage V 600 AC current Α 10 DC voltage V 250 DC current 1 Α Contact rating of auxiliary contacts according to UL A600 - P600 Ambient conditions **Temperature** Operating temperature °C min -50 °C 70 max Storage temperature °C -60 min °C 80 max Max altitude m 3000 Resistance & Protection Pollution degree 3 **Dimensions**

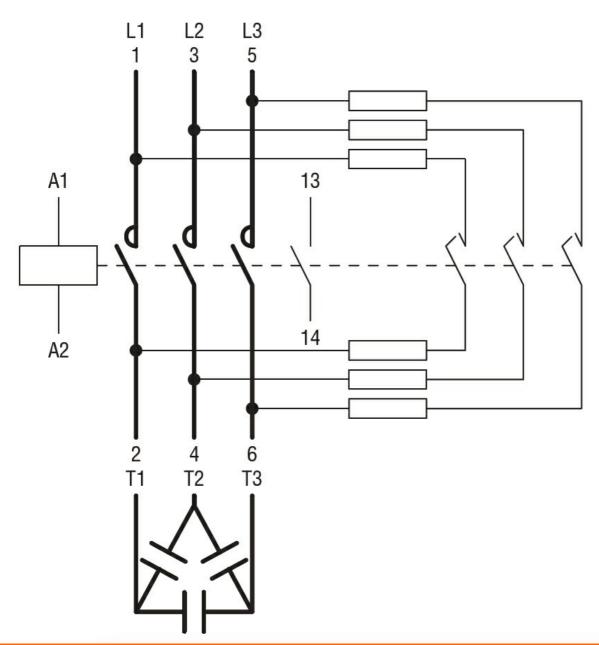
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Wiring diagrams



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Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN/BS 60947-1

IEC/EN/BS 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

CCC

cULus

EAC

ETIM classification

ETIM 8.0

EC001079 -Capacitor contactor