

ENERGY AND AUTOMATION

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, electric including limiting resistors, maximum iec operational power 400V = 12.5KVAR, COIL 120VAC 60HZ



Product designation			Power contactor
Product type designation			BFK12
Contact characteristics			
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	28
Rated operational power AC-6b (T≤40°C)			
	230V	kvar	7
	400V	kvar	12.5
	440480V	kvar	14
	690V	kvar	16
Short-time allowable current for 10s (IEC/EN60947-1)		Α	150
Protection fuse			
	gG (IEC)	Α	25
Making capacity (RMS value)		Α	120
Breaking capacity at voltage			
	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	Ibin	1.1
	max	Ibin	1.5
Tightening torque for coil terminal			
-9	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.8
	max	Ibin	0.74
Max number of wires simultaneously connectable	THOS.	Nr.	2
Conductor section			
AWG/Kcmil			
7.VV 0/7.Citili	max		10
Flexible w/o lug conductor section	Пих		10
TICALDIC W/O Tag Contractor Section	min	mm²	1
	max	mm²	6
Flexible c/w lug conductor section	Шах	111111	
i lexible of wildy collidactor section	min	mm²	1
	1111/1	111111	ı



ENERGY AND AUTOMATION

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max	mm²	4
min max	mm² mm²	1 4
		IP20 when properly wired
normal allowable		Vertical plan ±30°
		Screw / DIN rail 35mm
	g	416
		4.0
max		10
	Α	10
		A600 - P600
230V	Α	3
400V	Α	1.9
500V	Α	1.4
110V	A	5.7
0.417	Δ	. 7
		5.7 2.9
		2.3
		1.25
125V	Α	1.1
220V	Α	0.6
600V	Α	0.1
		20000000
	cycles	400000
rated load	cycles	400000
	-	20000000
		YES
		yes
	V	120
min	%Us	80
	/0US	00
min max		110
max	%Us	110
		110 20
	min max normal allowable max 230V 400V 500V 110V 24V 48V 60V 110V 125V 220V	min mm² mm² mm² max mm² normal allowable g max A 230V A 400V A 500V A 110V A 24V A 48V A 60V A 110V A 125V A 220V A 600V A 220V A 600V A cycles cycles rated load cycles chanical load cycles



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ENERGY AND AUTOMATION

of 60Hz coil powered at 60Hz

	or our iz con powered at our iz			
		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			Cyclc3/11	3000
	ontrol			
Average time for Us of				
	in AC			
	Closing			_
		min	ms	8
		max	ms	24
	Openin	g NO		
		min	ms	10
		max	ms	20
	Closing	NC		
	_	min	ms	14
		max	ms	28
UL technical data		· · · · · · · · · · · · · · · · · · ·		
General USE				
General USE	Comtostor			
	Contactor	A.O.	Δ.	00
		AC current	Α	28
	Auxiliary contacts	_		
		AC voltage	V	600
		AC current	Α	10
		DC voltage	V	250
		DC current	Α	1
Contact rating of auxili	ary contacts according to UL			A600 - P600
Ambient conditions	·			
Temperature				
: 2p 0.0.010	Operating temperature			
	opolating temperature	min	°C	-50
			°C	70
	<u></u>	max		70
	Storage temperature		0.0	00
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protection	on			
Pollution degree				3
Dimensions				



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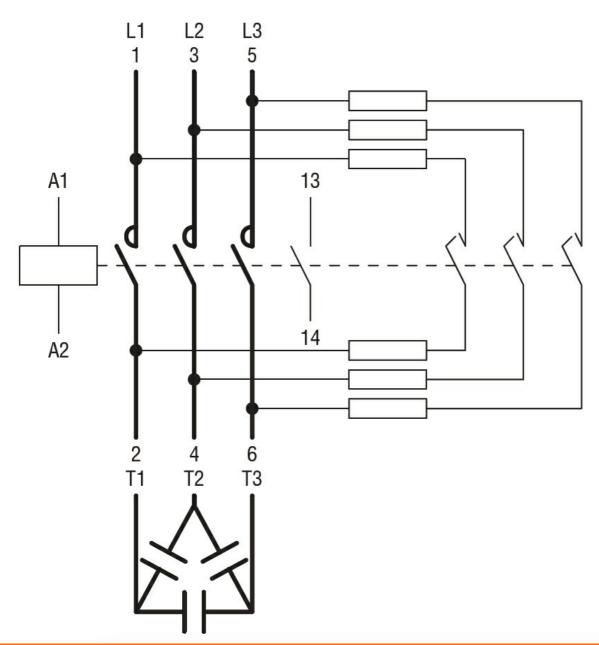
_ 10.9 (0.43") _116.6 (4.59") 6.2 - (0.24") € € 0 35 (1.38") 45 (1.77")

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