

ENERGY AND AUTOMATION

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, BFK TYPE electric (INCLUDING LIMITING RESISTORS), MAXIMUM IEC OPERATIONAL POWER 400V = 30KVAR, COIL 120VAC 60HZ

Product designation Product type designation			Power contactor BFK38
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	56
Rated operational power AC-6b (T≤40°C)			
(= 10 °C)	230V	kvar	17
	400V	kvar	30
	440480V	kvar	33
	690V	kvar	36
Short-time allowable current for 10s (IEC/EN60947-1)	0001	A	320
Protection fuse			020
1 Total Control 1 Table	gG (IEC)	Α	63
Making capacity (RMS value)	go (ico)	A	380
		^	360
Breaking capacity at voltage	440V	۸	204
		A	304
	500V	A	240
Danietana a na nala (automa na unlua)	690V	A	192
Resistance per pole (average value)		mΩ	2
Power dissipation per pole (average value)	Ith	W	6
Tightening torque for terminals			
	min	Nm	2.5
	max	Nm	3
	min	lbin	1.8
	max	Ibin	2.2
Tightening torque for coil terminal			
riginolinig to que les con terminas	min	Nm	0.8
	max	Nm	1
	min	lbin	Prodotti finiti
	max	Ibin	Prodotti finiti
Max number of wires simultaneously connectable	Пах	Nr.	2
Conductor section		141.	
Flexible w/o lug conductor section			
i levible Mio Ind Collancial Section	min	mm²	2.5
			2.5 16
Flovible of usua conductor coeffice	max	mm²	10
Flexible c/w lug conductor section	min	mm²	1
	min	mm²	1
Flouible with insulated and de live and division of the	max	mm²	10
Flexible with insulated spade lug conductor section		m 2	4
	min	mm²	1
Description of the second of t	max	mm²	10
Power terminal protection according to IEC/EN 60529			IP20 when wired
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°



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Fixing			Screw / DIN rail 35mm
Weight		g	400
Operations		J	
Mechanical life		cycles	20000000
Electrical life		cycles	1400000
Safety related data			
Performance level B10d according to EN/ISO 13489-1			
	rated load	cycles	400000
FMO (1.29)	mechanical load	cycles	20000000
EMC compatibility		\ /	Yes
Rated AC voltage at 60Hz		V	120
AC coil operating AC operating voltage			
of 60Hz coil powered at 60Hz			
pick-up			
ріск-ир	min	%Us	80
	max	%Us	110
drop-out	max	,000	
3.5p 33.	min	%Us	20
	max	%Us	55
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			
	in-rush	VA	70
	holding	VA	7
of 60Hz coil powered at 60Hz			
	in-rush	VA	75
Disable Alien at health as 2000 FOLL	holding	VA	9
Dissipation at holding ≤20°C 50Hz		W	2.5
Max cycles frequency Mechanical operation		cycles/h	3600
Operating times		Cycles/II	3000
Average time for Us control			
in AC			
Closing NO			
	min	ms	8
	max	ms	24
Opening NO			
	min	ms	5
	max	ms	15
Closing NC			
	min	ms	9
	max	ms	20
UL technical data			
General USE			
Contactor	• •	Ā	
A self-transfer and Pitters	AC current	Α	56
Ambient conditions			
Temperature			
O			
Operating temperature	min	°C	-50





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		max	°C	70
	Storage temperature			
	•	min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protection	on			
Pollution degree				3
Dimensions				
Wiring diagrams				
Certifications and com	pliance			
Compliance				
	CSA C22.2 n° 60947-1			
	CSA C22.2 n° 60947-4-1			
	IEC/EN 60947-1			
	IEC/EN 60947-4-1			
	UL 60947-1			
	UL 60947-4-1			
Certificates				
	CCC			
	cULus			
	EAC			
ETIM classification				
				EC001079 -
ETIM 8.0				Capacitor
				contactor