

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 30KVAR, COIL 48VAC 50/60HZ



Product designation			Power contactor
Product type designation			BFK38
Contact characteristics		N I a	0
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)			
	230V	kvar	17
	400V	kvar	30
	440480V	kvar	33
	690V	kvar	36
Short-time allowable current for 10s (IEC/EN60947-1)		Α	320
Protection fuse			
	gG (IEC)	Α	63
Making capacity (RMS value)		Α	380
Breaking capacity at voltage			
	440V	Α	304
	500V	Α	240
	690V	Α	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	lbin	2.2
Tightening torque for coil terminal	IIIdx	10111	۷.۷
rightening torque for contentinal	min	Nm	0.8
			1
	max min	Nm Ibin	0.59
May number of wires simultaneously sennestable	max	Ibin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			0
F) 9.1 () ()	max		6
Flexible w/o lug conductor section		•	0.5
	min	mm²	2.5
	max	mm²	16
Flexible c/w lug conductor section		_	
	min	mm²	1





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		max	mm²	10
	Flexible with insulated spade lug conductor s		2	
		min	mm²	1
		max	mm²	10
	ction according to IEC/EN 60529			IP20 when properly wired
Mechanical features				
Operating position		_		
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	400
Conductor section				
	AWG/kcmil conductor section			
		max		6
Operations				00000000
Mechanical life			cycles	20000000
Electrical life			cycles	1400000
Safety related data	0d apparding to EN/ISO 42490 4			
Performance level B1	0d according to EN/ISO 13489-1	rated load	ovoloo	400000
		mechanical load	cycles cycles	2000000
EMC compatibility		THEOHAITICAI IOAG	Cycles	yes
AC coil operating				yes
Rated AC voltage at 5	50/60Hz		V	48
AC operating voltage				
1 0 0	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up	min	%Us	85
		min max	%Us %Us	110
	drop-out	Παλ	/003	110
	a.sp out	min	%Us	20
		max	%Us	55
AC average coil cons	umption 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
	. (0011	holding	VA	7
	of 60Hz coil powered at 60Hz	*	١/٨	75
		in-rush	VA VA	75
Dissipation at holding	<20°C 50H-	holding	VA W	2.5
Max cycles frequency			VV	۷.ن
Mechanical operation			cycles/h	3600
wiccharlical operation			Cycles/II	3000

ENERGY AND AUTOMATION

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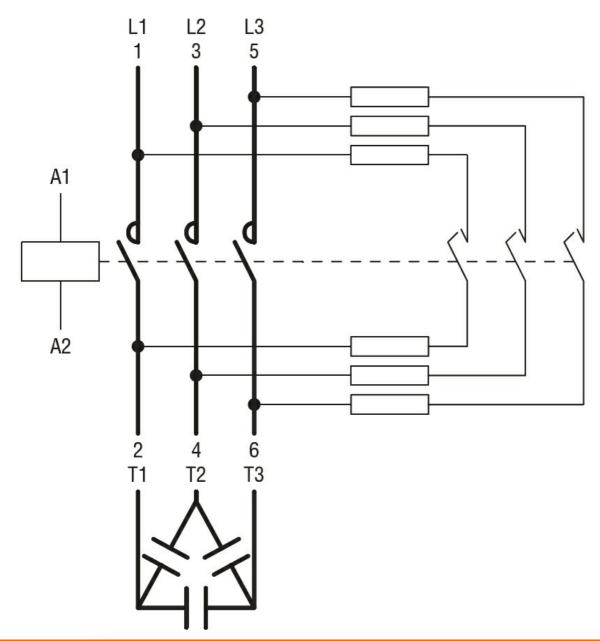
Operating times Average time for Us control in AC Closing NO 8 min ms max ms 24 Opening NO 5 min ms 15 max ms Closing NC 9 min ms max ms 20 UL technical data General USE Contactor AC current Α 56 Ambient conditions Temperature Operating temperature °C -50 min °C 70 max Storage temperature °C min -60 °C 80 max Max altitude m 3000 Resistance & Protection Pollution degree 3 **Dimensions** 125.5 (4.94")7.9 (0.57)(0.31")35 (1.38")

Wiring diagrams

- 45 (1.77")



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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