



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





		max	mm²	10
	Flexible with insulated spade lug conductor			
		min	mm² mm²	1 10
		max	HIIII	IP20 when
Power terminal protect	tion according to IEC/EN 60529			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				
Mechanical life			cycles	20000000
Electrical life			cycles	1400000
Safety related data	Od according to EN/ISO 13489-1			
Periormanice level bit	od according to EN/13O 13469-1	rated load	cycles	400000
		mechanical load	cycles	2000000
EMC compatibility		moonamour road	0,0.00	yes
AC coil operating				,
Rated AC voltage at 50	0/60Hz		V	24
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
	drap aut	max	%Us	110
	drop-out	min	%Us	20
		min max	%Us	55
	of 50/60Hz coil powered at 60Hz	max	7003	
	pick-up			
	1 3 31	min	%Us	85
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
AC average coil consu	•			
	of 50/60Hz coil powered at 50Hz	عاميس من	١/٨	75
		in-rush holding	VA VA	75 9
	of 50/60Hz coil powered at 60Hz	rioidirig	٧٨	<u> </u>
	of 30/30112 doil powered at our iz	in-rush	VA	70
		holding	VA	7
	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

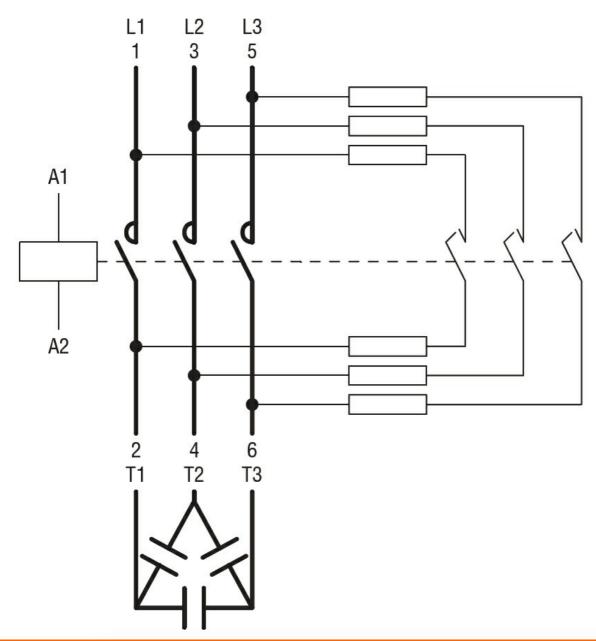


Operating times Average time for Us control in AC Closing NO 8 min ms max ms 24 Opening NO 5 min ms 15 max ms Closing NC 9 min ms max ms 20 UL technical data General USE Contactor AC current Α 56 Ambient conditions Temperature Operating temperature °C -50 min °C 70 max Storage temperature °C min -60 °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")45

Wiring diagrams

(1.77")





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