



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
<b>F</b> ) 9.1 ( ) ( )	max		6
Flexible w/o lug conductor section		•	0.5
	min	mm²	2.5
<del></del>	max	mm²	16
Flexible c/w lug conductor section		_	
	min	mm²	1





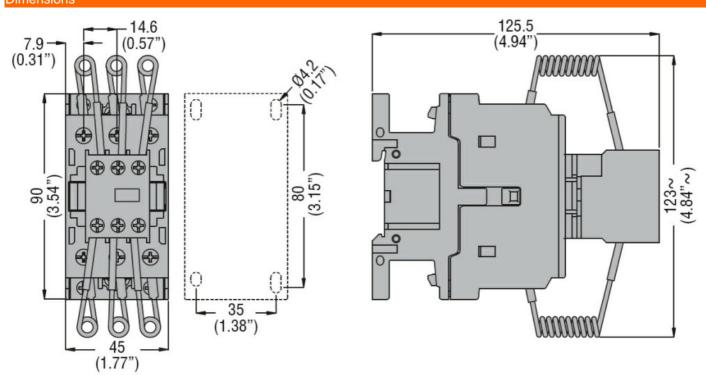
	max	mm²	10
	Flexible with insulated spade lug conductor section	111111	10
	min	mm²	1
	max	mm²	10
Power terminal protect	ion according to IEC/EN 60529		IP20 when properly wired
Mechanical features			property initial
Operating position			
	normal allowable		Vertical plan ±30°
Fixing			Screw / DIN rail 35mm
Weight		g	400
Conductor section			
	AWG/kcmil conductor section		
	max		6
Operations			
Mechanical life		cycles	20000000
Electrical life		cycles	1400000
Safety related data	Nd according to FN//CO 42400 4		
Performance level B10	od according to EN/ISO 13489-1	oved a a	400000
	rated load mechanical load	cycles	400000 20000000
EMC compatibility	Thechanical load	cycles	
AC coil operating			yes
Rated AC voltage at 60	)H7	V	575
AC operating voltage		<u> </u>	0.0
re operaning remage	of 60Hz coil powered at 60Hz		
	pick-up		
	min .	%Us	80
	max	%Us	110
	drop-out		
	min	%Us	20
	max	%Us	55
AC average coil consu	•		
	of 60Hz coil powered at 60Hz		
	in-rush	VA	75
Dissipation at holding ≤	holding	VA W	9 2.5
Max cycles frequency	SZU C 30FIZ	VV	2.5
Mechanical operation		cycles/h	3600
Operating times		Oyoloo/11	0000
Average time for Us co	entrol		
	in AC		
	Closing NO		
	min	ms	8
	max	ms	24
	Opening NO		
	min	ms	5
	max	ms	15
	Closing NC		
	Closing NC	:	^
	min max	ms ms	9 20



## General USE

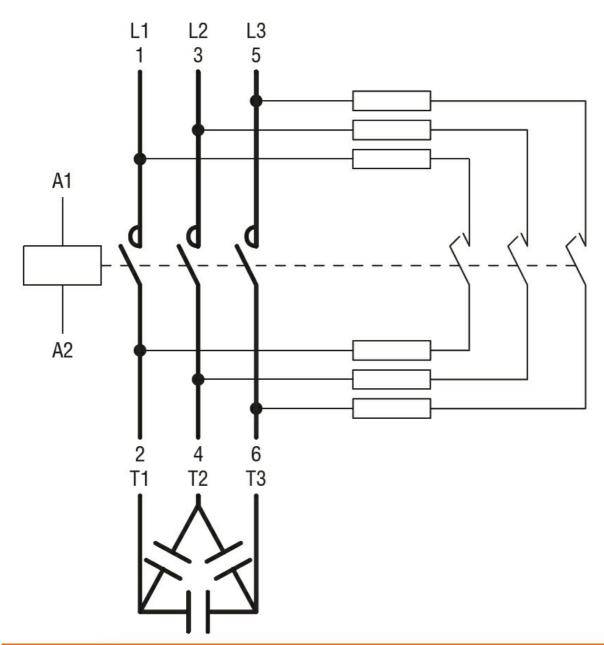
Contactor

		AC current	Α	56
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protect	ion			
Pollution degree				3
Dimensions				



Wiring diagrams





## 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