



Product designation				Power contactor
Product type designate				BFK80
Contact characteristic	S Comment of the Comm			
Number of poles			Nr.	3
Rated insulation volta	-		V	690
Rated impulse withsta	and voltage Uimp		kV	8
Operational frequency	y			
		min	Hz	25
		max	Hz	400
IEC Conventional free	e air thermal current Ith		Α	115
Rated operational pov	wer AC-6b (T≤40°C)			
	,	230V	kvar	30
		400V	kvar	50
		440480V	kvar	56
		690V	kvar	65
Short-time allowable	current for 10s (IEC/EN60947-1)		A	640
Protection fuse	04110111011100 (120/2110001111)			
0.00.0111000		gG (IEC)	Α	125
Making capacity (RMS	(Auley 2	go (illo)	A	800
Breaking capacity at v				000
breaking capacity at v	voltage	440V	٨	640
		_	A	640
		500V	A	625
		690V	A	456
Resistance per pole (average value)			mΩ	0.6
Power dissipation per	pole (average value)			
		Ith	W	7.9
Tightening torque for	terminals			
		min	Nm	4
		max	Nm	5
		min	lbin	2.95
		max	lbin	3.69
Tightening torque for	coil terminal			
• •		min	Nm	0.8
		max	Nm	1
		min	lbin	0.8
		max	lbin	0.74
Max number of wires	simultaneously connectable		Nr.	2
Conductor section	,			
	AWG/Kcmil			
		max		2
	Flexible w/o lug conductor section	max		_ -
	i lexible w/o lag conductor section	min	mm²	1.5
			mm²	35
	Florible a/w lug conductor acction	max	111111-	ა <u>ა</u>
	Flexible c/w lug conductor section	mai:m	mm²	1 5
		min	mm²	1.5



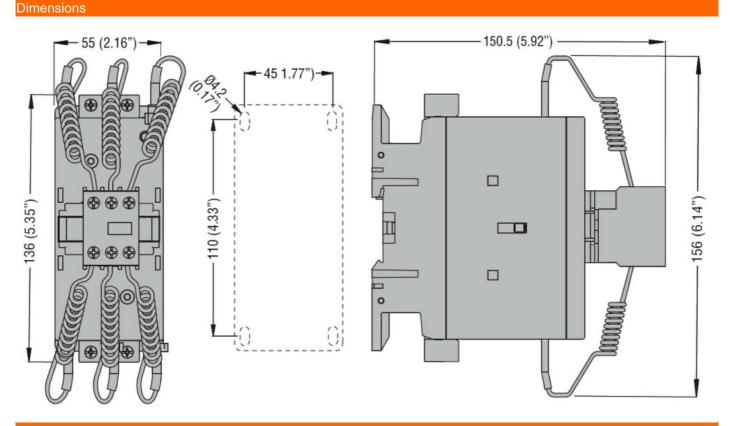


		max	mm²	35
	tion according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	1090
Conductor section	ANA(O, #)			
	AWG/kcmil conductor section			0
Operations		max		2
Operations			avala a	45000000
Mechanical life			cycles	15000000
Electrical life			cycles	400000
Safety related data	0d according to FN/ICO 12490 1			
-enormance level B10	0d according to EN/ISO 13489-1	rated load	ovelee	400000
		rated load mechanical load	cycles cycles	1500000
EMC compatibility		mechanical load	cycles	
AC coil operating				yes
Rated AC voltage at 50	0/6047		V	48
AC operating voltage	0/00112		V	40
AC operating voltage	of 50/60Hz coil powered at 50Hz			
	pick-up			
	рюк-ир	min	%Us	80
		max	%Us	110
	drop-out	max	7000	110
	arop cat	min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
	1 3 31	min	%Us	85
		max	%Us	110
	drop-out			
	·	min	%Us	20
		max	%Us	55
AC average coil consu	ımption at 20°C			
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	210
		holding	VA	15
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	195
		holding	VA	13
	of 60Hz coil powered at 60Hz			
		in-rush	VA	210
		holding	VA	15
Dissipation at holding :	≤20°C 50Hz		W	5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us co				
	in AC			

Closing NO

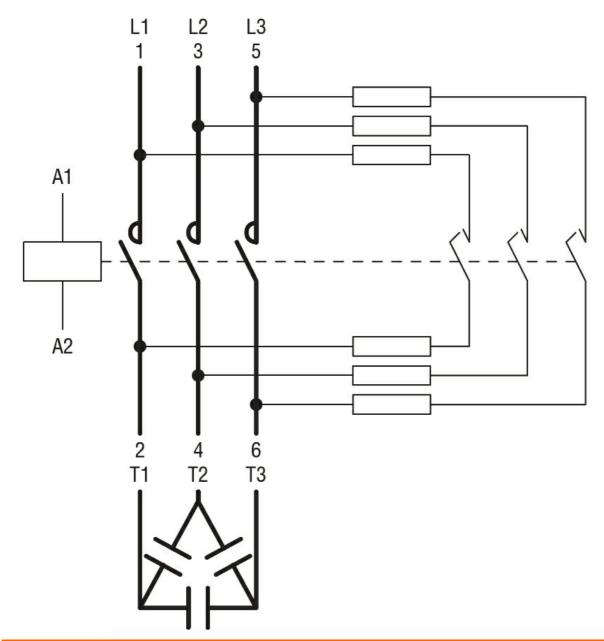


			min	ms	12
			max	ms	28
		Opening NO			
			min	ms	8
			max	ms	22
	in DC				
		Closing NO			
		•	min	ms	40
			max	ms	85
		Opening NO			
			min	ms	20
			max	ms	55
UL technical data					
General USE					
	Contactor				
			AC current	Α	115
Ambient conditions					
Temperature					
	Operating temperature	!			
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protection	nn.				
	лı <u> </u>				
Pollution degree	ות				3



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

ETIM classification

ETIM 8.0

EC001079 -Capacitor contactor