



Product designation				Power contactor
Product type designati				BFK80
Contact characteristics				
Number of poles			Nr.	3
Rated insulation voltag			V	690
Rated impulse withstar	nd voltage Uimp		kV	8
Operational frequency				
		min	Hz	25
		max	Hz	400
IEC Conventional free	air thermal current Ith		Α	115
Rated operational pow	rer AC-6b (T≤40°C)			
		230V	kvar	30
		400V	kvar	50
		440480V	kvar	56
		690V	kvar	65
Short-time allowable co	urrent for 10s (IEC/EN60947-1)		Α	640
Protection fuse	,			
		gG (IEC)	Α	125
Making capacity (RMS	value)	• • • • • • • • • • • • • • • • • • • •	Α	800
Breaking capacity at vo	•			_
0 , ,		440V	Α	640
		500V	Α	625
		690V	Α	456
Resistance per pole (a	verage value)		mΩ	0.6
	Power dissipation per pole (average value)			
	,	Ith	W	7.9
Tightening torque for te	erminals			
		min	Nm	4
		max	Nm	5
		min	Ibin	2.95
		max	Ibin	3.69
Tightening torque for c	oil terminal			
3 3 4		min	Nm	0.8
		max	Nm	1
		min	lbin	0.8
		max	Ibin	0.74
Max number of wires simultaneously connectable			Nr.	2
Conductor section				
	AWG/Kcmil			
		max		2
	Flexible w/o lug conductor section			
		min	mm²	1.5
		max	mm²	35
	Flexible c/w lug conductor section	max		
	Toxisio o, wing conductor section	min	mm²	1.5



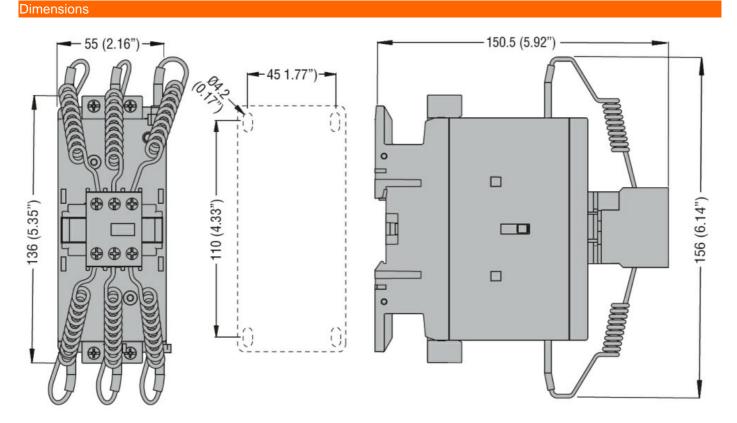


		max	mm²	35
Power terminal protection according to	IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	1090
Conductor section	L. G. G. G. G. G.			
AWG/kcmil con	ductor section			0
Onerations		max		2
Operations			ovelee	45000000
Mechanical life			cycles	15000000
Electrical life			cycles	400000
Safety related data	N/ISO 12490 1			
Performance level B10d according to E	17/100 10469-1	rated load	ovoloo	400000
		rated load mechanical load	cycles cycles	1500000
EMC compatibility		mechanicai ioau	cycles	
AC coil operating				yes
Rated AC voltage at 50/60Hz			V	24
AC operating voltage			V	24
	noward at 50Uz			
01 30/00F12 COII	powered at 50Hz pick-up			
	ріск-ир	min	%Us	80
		max	%Us	110
	drop-out	max	7000	110
	drop out	min	%Us	20
		max	%Us	55
of 50/60Hz coil	powered at 60Hz		7000	
S. 33, 33. I <u> </u> 33.	pick-up			
	press ep	min	%Us	85
		max	%Us	110
	drop-out			
	·	min	%Us	20
		max	%Us	55
AC average coil consumption at 20°C				
of 50/60Hz coil	powered at 50Hz			
		in-rush	VA	210
<u></u>		holding	VA	15
of 50/60Hz coil	powered at 60Hz			
		in-rush	VA	195
		holding	VA	13
of 60Hz coil pov	wered 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 control				

Closing NO

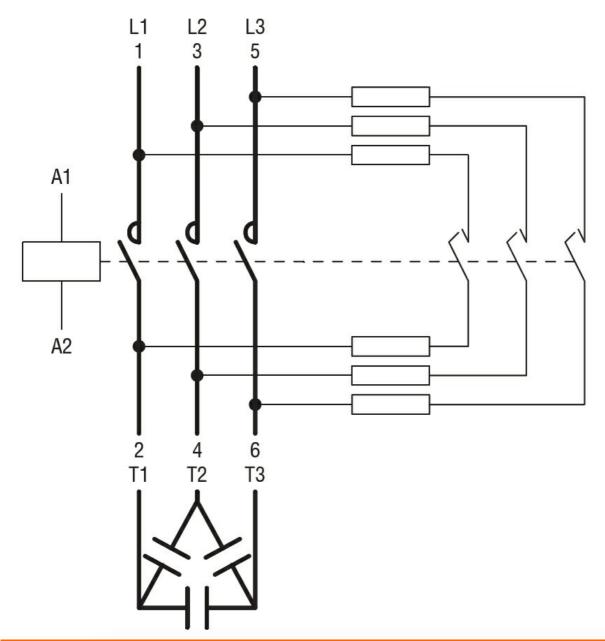


			min	ms	12
			max	ms	28
		Opening NO			
		opolinig 110	min	ms	8
			max	ms	22
	in DC				
	11120	Closing NO			
		Clothing 110	min	ms	40
			max	ms	85
		Opening NO	IIIax	1113	00
		Opening NO	min	ms	20
III. ta abudaal alata			max	ms	55
UL technical data					
General USE					
	Contactor				
			AC current	Α	115
Ambient conditions					
Temperature					
	Operating temperature	9			
			min	°C	-50
			max	°C	70
	Storage temperature				
	0 1		min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protecti	on				
	· · · · · · · · · · · · · · · · · · ·				
Pollution degree					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