



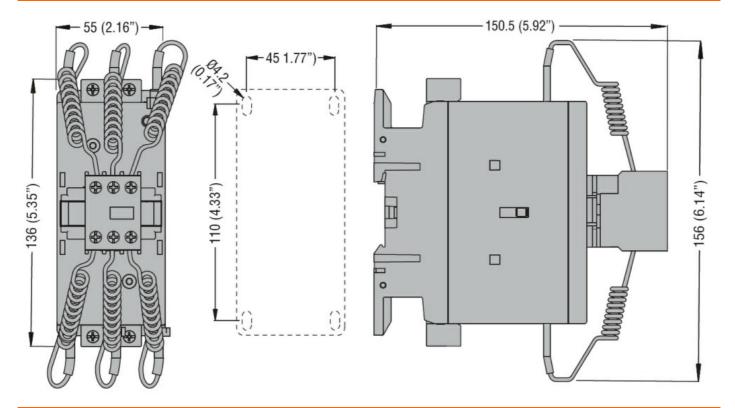
Product designation				Power contactor
Product type designat				BFK80
Contact characteristic	S			
Number of poles			Nr.	3
Rated insulation voltage			V	690
Rated impulse withsta			kV	8
Operational frequency	1			
		min	Hz	25
		max	Hz	400
IEC Conventional free air thermal current Ith			Α	115
Rated operational pov	ver AC-6b (T≤40°C)			
		230V	kvar	30
		400V	kvar	50
		440480V	kvar	56
		690V	kvar	65
Short-time allowable of	current for 10s (IEC/EN60947-1)		Α	640
Protection fuse				
		gG (IEC)	Α	125
Making capacity (RMS	S value)		Α	800
Breaking capacity at v	oltage			
		440V	Α	640
		500V	Α	625
		690V	Α	456
Resistance per pole (a	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 o	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			
	9	min	mm²	1.5
		max	mm²	35
	Flexible c/w lug conductor section			
		min	mm²	1.5



		max	mm²	35
Power terminal protection acco	ording to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal allowable		Vertical plan ±30°
Fixing				Screw / DIN rail 35mm
Weight			g	1090
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	400000
Safety related data				
Performance level B10d accor	rding to EN/ISO 13489-1			
		rated load	cycles	400000
		mechanical load	cycles	15000000
EMC compatibility			-	yes
AC coil operating				·
Rated AC voltage at 60Hz			V	120
AC operating voltage				
	Iz coil powered at 60Hz			
	pick-up			
	p	min	%Us	80
		max	%Us	110
	drop-out		,,,,,	
	а. ор оал	min	%Us	20
		max	%Us	55
AC average coil consumption	at 20°C			
	Iz coil powered at 60Hz			
		in-rush	VA	210
		holding	VA	15
Dissipation at holding ≤20°C 5	0Hz		W	5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times			0,0100/11	0000
Average time for Us control				
in AC				
III AO	Closing NO			
	Closing NC	min	ms	12
		max	ms	28
	Opening NO	παλ	1113	
	Opening NO	min	ms	8
		max	ms	22
in DC		тах	1110	
111 00	Closing NO			
	Closing IVO	min	ms	40
		max	ms	85
	Opening NO	max	1113	
	Opening No	min	ms	20
		max	ms	55
UL technical data		ınax	1113	
Rated operational voltage AC	(III.)		V	600
General USE	(0-)		v	
Conta	ctor			
Conta	GIOI			

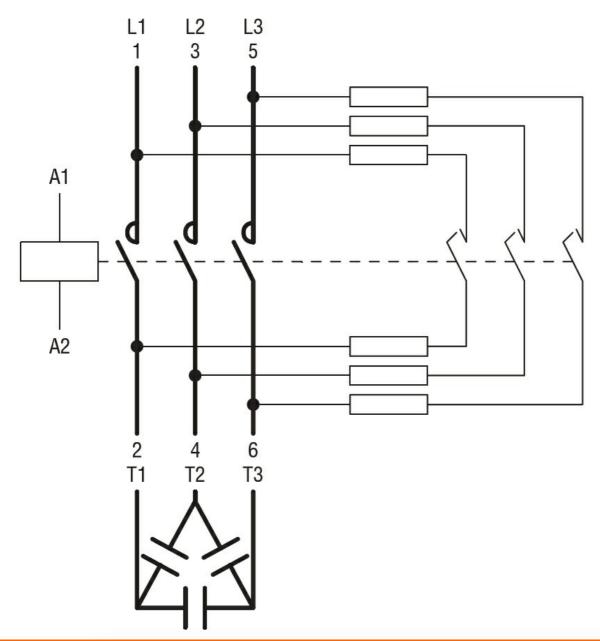


		AC current	Α	115
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protect	tion			
Pollution degree				3
Dimensions				



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

ETIM classification

ETIM 8.0

EC001079 -Capacitor contactor