



Product designation				Power contactor
Product type designat				BFK80
Contact characteristics	S			
Number of poles	18150/51		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
	current for 10s (IEC/EN60947-1)		Α	640
Protection fuse				
		gG (IEC)	A	125
Making capacity (RMS			Α	800
Breaking capacity at v	oltage			
		440V	Α	640
		500V	Α	625
		690V	Α	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 o	coil terminal			
		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			
		min	mm²	1.5



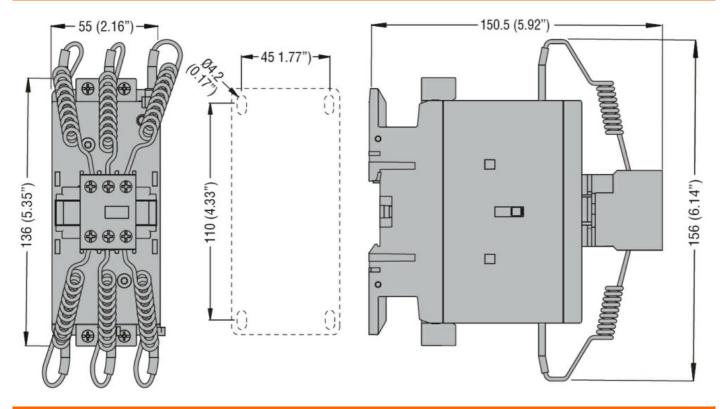
·			max	mm²	35
Power terminal protect	ion according to IEC/E	EN 60529			IP20 front
Mechanical features					
Operating position			normal allowable		Vertical plan ±30°
Fixing			unowabic		Screw / DIN rail 35mm
Weight				g	1090
Conductor section					
	AWG/kcmil conducto	or section	max		2
Operations					
Mechanical life				cycles	15000000
Electrical life				cycles	400000
Safety related data					
Performance level B10	d according to EN/IS0	O 13489-1			
			rated load	cycles	400000
			mechanical load	cycles	15000000
EMC compatibility					yes
AC coil operating				\	200
Rated AC voltage at 60)Hz			V	230
AC operating voltage	. (0011	1 - (0011			
	of 60Hz coil powered				
		pick-up	min	%Us	80
			max	%Us	110
		drop-out	max	7003	110
		а. ор оа.	min	%Us	20
			max	%Us	55
AC average coil consu	mption at 20°C				
•	of 60Hz coil powered	d 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			
		Ciosing IVO	min	ms	12
			max	ms	28
		Opening NO	IIIdA	1113	20
		- F	min	ms	8
			max	ms	22
	in DC				
		Closing NO			
			min	ms	40
			max	ms	85
		Opening NO			
			min	ms	20
III to obvio objete			max	ms	55
UL technical data					



General USE

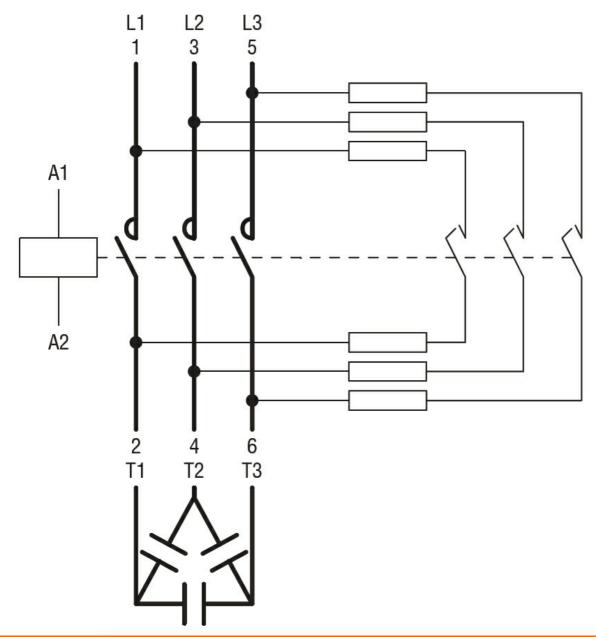
Contactor

		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 & 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

ETIM classification

ETIM 8.0

EC001079 -Capacitor contactor