



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 power 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 protect	ion according to IEC/E	N 60529			IP20 front
Mechanical features					
Operating position			normal allowable		Vertical plan ±30°
Fixing			dilowdoic		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	D 13489-1			
			rated load	cycles	400000
			mechanical load	cycles	15000000
EMC compatibility					yes
AC coil operating	N. I				100
Rated AC voltage at 60	JHZ			V	120
AC operating voltage	of COUT and poweres	Let COLL			
	of 60Hz coil powered	pick-up			
		ріск-ир	min	%Us	80
			max	%Us	110
		drop-out		,,,,,	
		•	min	%Us	20
			max	%Us	55
AC average coil consu	mption at 20°C				_
	of 60Hz coil powered	l at 60Hz			
			in-rush	VA	210
			holding	VA	15
Dissipation at holding ≤	≦20°C 50Hz			W	5
Max cycles frequency				//	0000
Mechanical operation				cycles/h	3600
Operating times Average time for Us co	entrol				
Average time for 05 co	in AC				
	III AO	Closing NO			
		0.00.119 110	min	ms	12
			max	ms	28
		Opening NO			
		-	min	ms	8
			max	ms	22
	in DC				
		Closing NO			
			min	ms	40
		On order to NO	max	ms	85
		Opening NO		ma	20
			min	ms ms	20 55
UL technical data			max	ms	
OL teominear data					

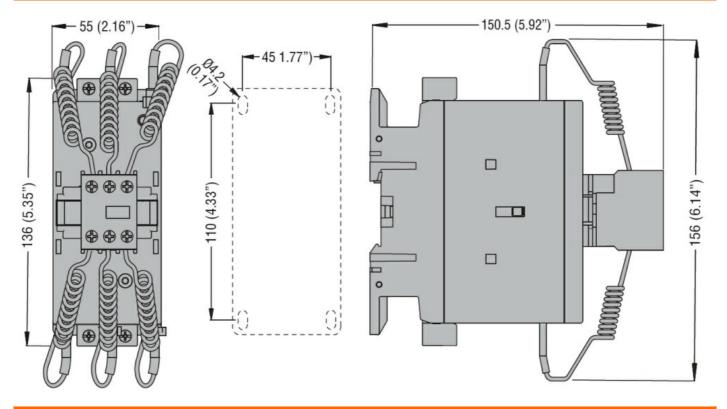




General USE

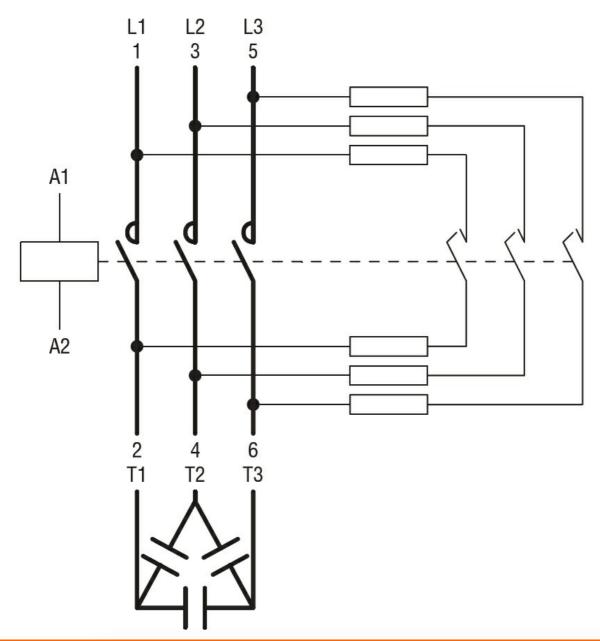
Contactor

		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	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