



Product designation			Power contactor
Product type designation			BFK80
Contact characteristics			
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
	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 current for 10s (IEC/EN60947-1)		Α	640
Protection fuse			
	gG (IEC)	Α	125
Making capacity (RMS value)		Α	800
Breaking capacity at voltage			
	440V	Α	640
	500V	Α	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
Managed and Change and Control of the	max	Ibin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			0
Flavible w/s tree see destas seeties	max		2
Flexible w/o lug conductor section		na :== 2	1 E
	min	mm²	1.5
Florible alv. Ive and distance them	max	mm²	35
Flexible c/w lug conductor section	min	mm²	1.5



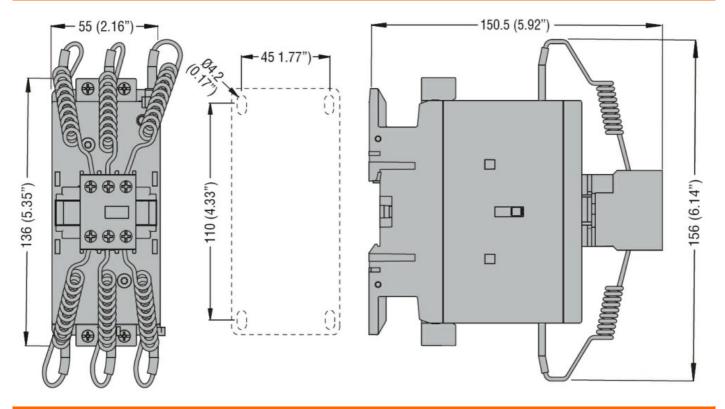
	max	mm²	35
Power terminal protection according to IEC/EN 60529			IP20 front
Mechanical features			
Operating position			
	normal allowable		Vertical plan ±30°
Fixing			Screw / DIN rail 35mm
Weight		g	1090
Conductor section			
AWG/kcmil conductor section			
	max		2
Operations			
Mechanical life		cycles	15000000
Electrical life		cycles	400000
Safety related data			
Performance level B10d according to EN/ISO 13489-1	rated load	cycles	400000
	mechanical load	cycles	1500000
EMC compatibility	mechanical load	Cycles	yes
AC coil operating			yes
Rated AC voltage at 60Hz		V	220
AC operating voltage			
of 60Hz coil powered at 60Hz			
pick-up			
	min	%Us	80
	max	%Us	110
drop-out			
	min	%Us	20
AC average sail consumption at 20°C	max	%Us	55
AC average coil consumption at 20°C of 60Hz coil powered at 60Hz			
of our 12 coil powered at our 12	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			
in AC			
Closing NO			
	min	ms	12
On oning NO	max	ms	28
Opening NO	min	ma	0
	min max	ms ms	8 22
in DC	IIIax	1113	22
Closing NO			
5.55m.g 5	min	ms	40
	max	ms	85
Opening NO			
· -	min	ms	20
	max	ms	55
UL technical data			



## General USE

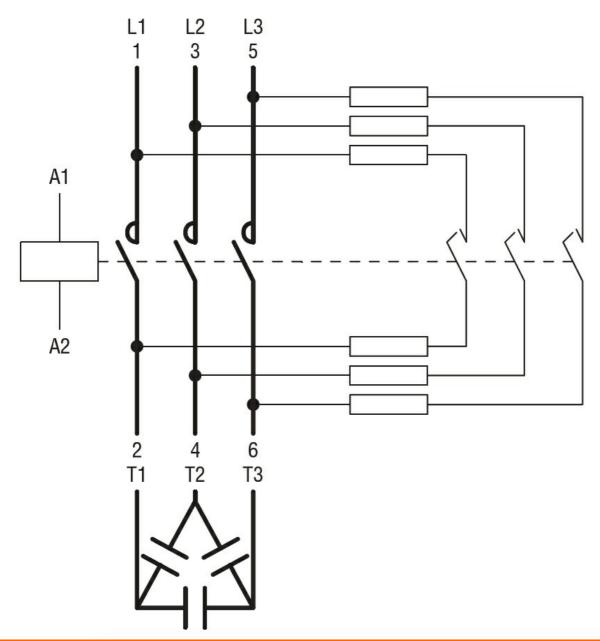
Contactor

		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 & 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