





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



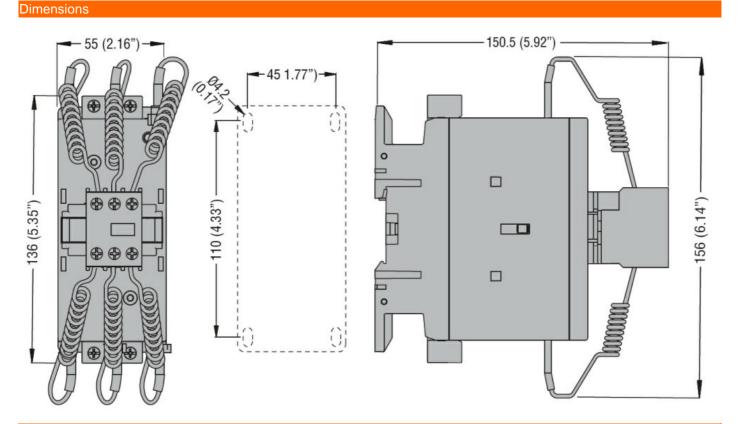


		max	mm²	35
	n according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
ixing				Screw / DIN rail
				35mm
Veight			g	1090
Conductor section				
·	AWG/kcmil conductor section			
		max		2
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	400000
Safety related data				
Performance level B10d	according to EN/ISO 13489-1			
		rated load	cycles	400000
		mechanical load	cycles	15000000
MC compatibility				yes
AC coil operating				
Rated AC voltage at 50/0	60Hz		V	110
C operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
-		max	%Us	55
(of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	85
		max	%Us	110
	drop-out		0/11	0.0
		min	%Us	20
\O ====================================	ntion of 20°C	max	%Us	55
AC average coil consum	•			
•	of 50/60Hz coil powered at 50Hz	!	١/٨	240
		in-rush	VA VA	210
-	of FO/GOUZ anil noward of COLL-	holding	VA	15
•	of 50/60Hz coil powered at 60Hz	عامريس من	١/٨	105
		in-rush	VA VA	195 13
-	of GOLIZ anil noward at GOLIZ	holding	VA	13
•	of 60Hz coil powered at 60Hz	ام سامانا - امانا المانا	١/٨	210
		in-rush	VA VA	210
Dissipation at halding of	0.00 5011-	holding	VA	15 5
Dissipation at holding ≤2	U C DUHZ		W	ס
Max cycles frequency			0) (6) 6 - / -	2600
Mechanical operation			cycles/h	3000
Operating times Average time for Us con	tral			
verage time for US con	lIUI			

Closing NO

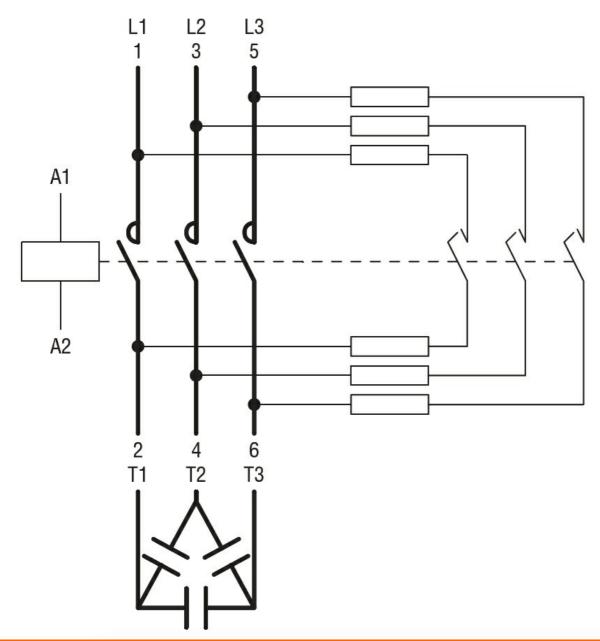


			min	ms	12
			max	ms	28
		Opening NO			
		opolinig 110	min	ms	8
			max	ms	22
	in DC				
	11120	Closing NO			
		Clothing 110	min	ms	40
			max	ms	85
		Opening NO	IIIax	1113	00
		Opening NO	min	ms	20
III. ta abudaal alata			max	ms	55
UL technical data					
General USE					
	Contactor				
			AC current	Α	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