



Product designation				Power contactor
Product type designation				BFK115
Contact characteristics				
Number of poles	Nr.			3
Rated insulation voltage U_i IEC/EN	V			690
Rated impulse withstand voltage U_{imp}	kV			8
Operational frequency	min	Hz	25	
	max	Hz	400	
IEC Conventional free air thermal current I_{th}	A			160
Rated operational power AC-6b ($T \leq 40^\circ C$)	230V	kvar	45	
	400V	kvar	75	
	440...480V	kvar	85	
	690V	kvar	135	
Short-time allowable current for 10s (IEC/EN60947-1)	A			920
Protection fuse	gG (IEC)	A	160	
		A	1500	
Making capacity (RMS value)				1500
Breaking capacity at voltage	440V	A	1200	
	500V	A	850	
	690V	A	905	
Resistance per pole (average value)	m Ω			0.45
Power dissipation per pole (average value)	I_{th}	W	11.5	
	min	Nm	6	
Tightening torque for terminals	max	Nm	7	
	min	I_{bin}	4.4	
	max	I_{bin}	5.2	
	min	Nm	0.8	
Tightening torque for coil terminal	max	Nm	1	
	min	I_{bin}	0.59	
	max	I_{bin}	0.74	
	min	Nm	0.8	
Max number of wires simultaneously connectable	Nr.			2
Conductor section	AWG/Kcmil			
	max			2/0
Flexible w/o lug conductor section	min	mm ²	1.5	
	max	mm ²	70	
Flexible c/w lug conductor section	min	mm ²	1.5	

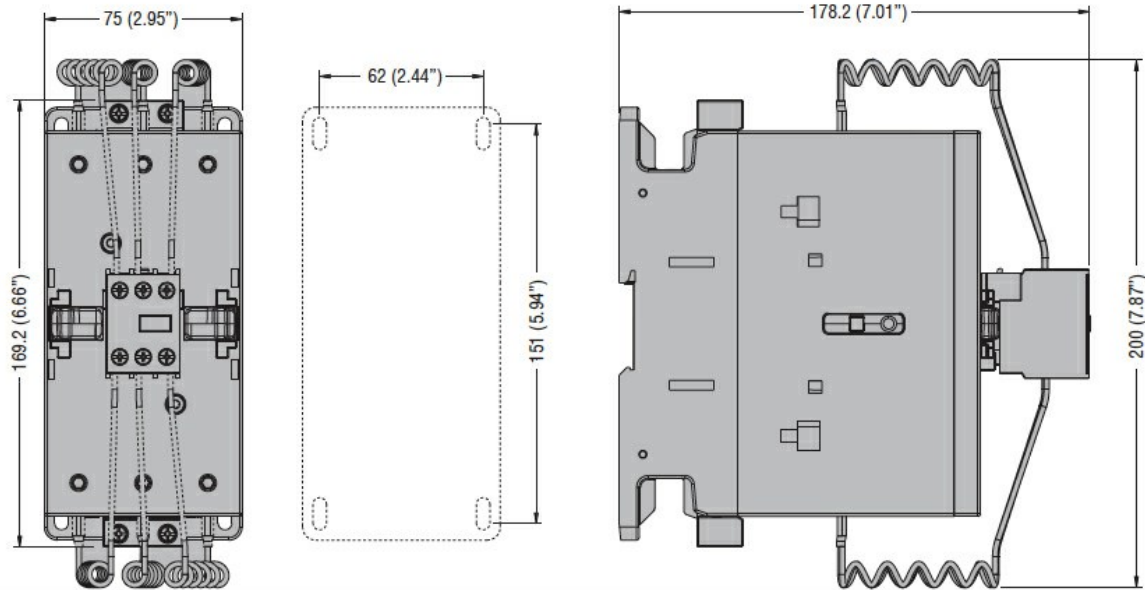
		max	mm ²	70
Power terminal protection according to IEC/EN 60529				IP20 front
Mechanical features				
Operating position		normal allowable		Vertical plan ±30°
Fixing				Screw / DIN rail 35mm
Weight			g	2095
Conductor section	AWG/kcmil conductor section	max		2/0
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1200000
Safety related data				
Performance level B10d according to EN/ISO 13489-1		rated load mechanical load	cycles cycles	400000 15000000
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 60Hz			V	48
AC operating voltage	of 60Hz coil powered at 60Hz pick-up	min	%Us	80
		max	%Us	110
	drop-out	min	%Us	20
		max	%Us	55
Max cycles frequency				
Mechanical operation			cycles/h	1500
Operating times				
Average time for Us control in AC	Closing NO	min	ms	16
		max	ms	32
	Opening NO	min	ms	9
		max	ms	24
UL technical data				
General USE	Contactor	AC current	A	160
Ambient conditions				
Temperature	Operating temperature	min	°C	-50
		max	°C	70
	Storage temperature	min	°C	-60
		max	°C	80
Max altitude			m	3000

Resistance & Protection

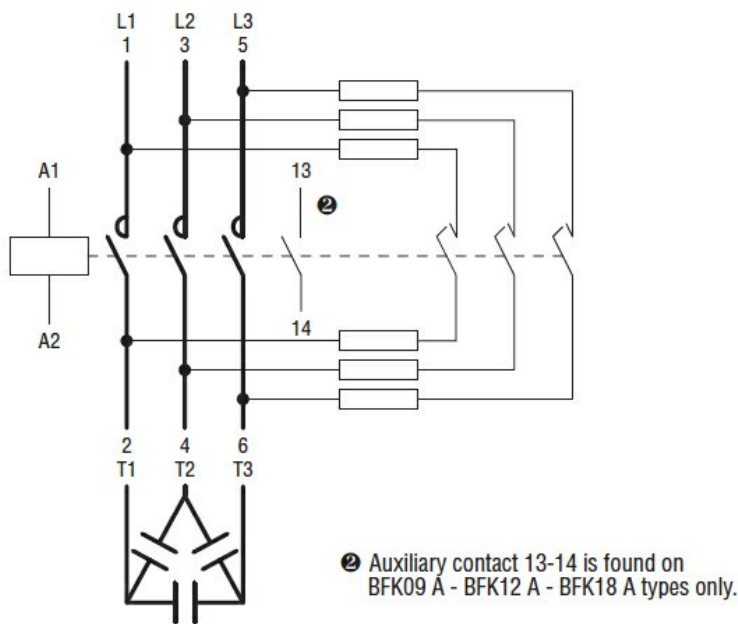
Pollution degree

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