



Product designation	Power contactor		
Product type designation	BFK115		
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		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
Making capacity (RMS value)		A	1500
Breaking capacity at voltage	440V	A	1200
	500V	A	850
	690V	A	905
Resistance per pole (average value)		m?	0.45
Power dissipation per pole (average value)	Ith	W	11.5
Tightening torque for terminals	min	Nm	6
	max	Nm	7
	min	lbin	4.4
	max	lbin	5.2
Tightening torque for coil terminal	min	Nm	0.8
	max	Nm	1
	min	lbin	0.59
	max	lbin	0.74
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

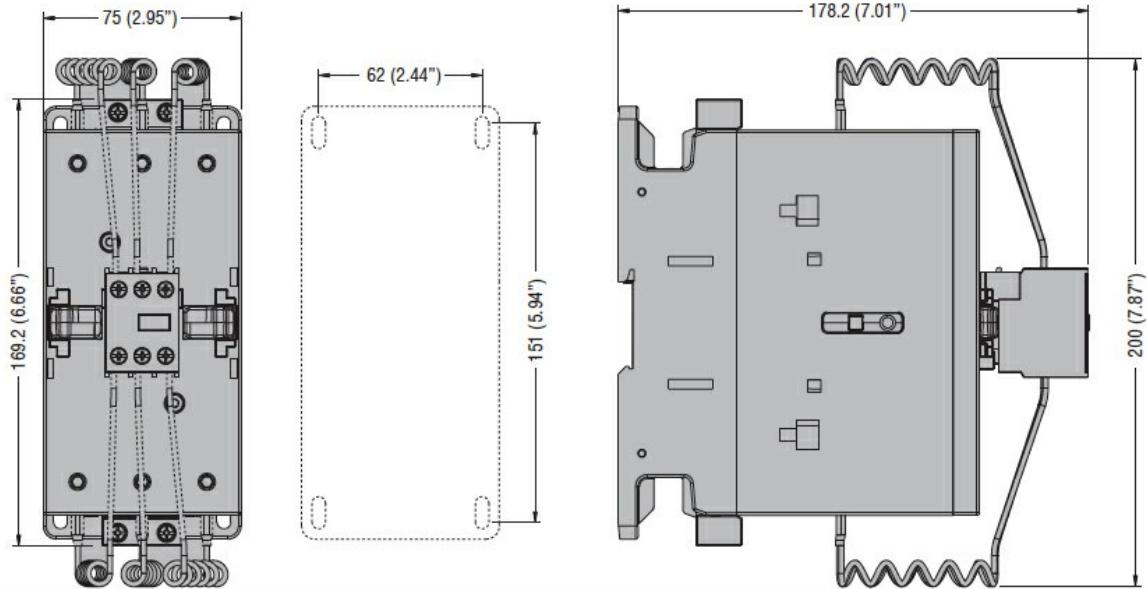
	max	mm ²	70
Power terminal protection according to IEC/EN 60529			IP20 front
Mechanical features			
Operating position	normal allowable		Vertical plan ±30°
Fixing			Screw / DIN rail 35mm
Weight	g	2095	
Conductor section			
AWG/kcmil conductor section	max		2/0
Operations			
Mechanical life	cycles	15000000	
Electrical life	cycles	1200000	
Safety related data			
Performance level B10d according to EN/ISO 13489-1	rated load mechanical load	cycles	400000 15000000
EMC compatibility			yes
AC coil operating			
Rated AC voltage at 60Hz	V	575	
AC operating voltage			
of 60Hz coil powered at 60Hz			
pick-up	min max	%Us %Us	80 110
drop-out	min max	%Us %Us	20 55
Max cycles frequency			
Mechanical operation	cycles/h	1500	
Operating times			
Average time for Us control			
in AC			
Closing NO	min max	ms ms	16 32
Opening NO	min max	ms ms	9 24
UL technical data			
General USE			
Contactor	AC current	A	160
Ambient conditions			
Temperature			
Operating temperature	min max	°C °C	-50 70
Storage temperature	min max	°C °C	-60 80
Max altitude	m	3000	

Resistance & Protection

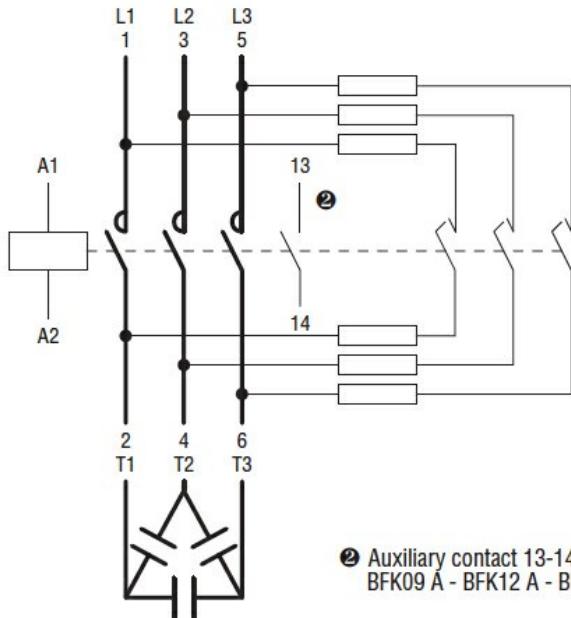
Pollution degree

3

Dimensions



Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1

IEC/EN 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

CCC

cULus

ETIM classification

ETIM 8.0

EC001079 -
Capacitor
contactor