



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
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)	I_{th}	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	cycles	400000	
mechanical load	cycles	15000000	
EMC compatibility			yes
AC coil operating			
Rated AC voltage at 50/60Hz	V	110	
AC operating voltage			
of 50/60Hz coil powered at 50Hz			
pick-up	min	%Us	80
drop-out	max	%Us	110
of 50/60Hz coil powered at 60Hz			
pick-up	min	%Us	85
drop-out	max	%Us	110
of 60Hz coil powered at 60Hz			
in-rush	min	%Us	40
holding	max	%Us	55
AC average coil consumption at 20°C			
of 50/60Hz coil powered at 50Hz	holding	VA	20
of 50/60Hz coil powered at 60Hz	in-rush	VA	300
	holding	VA	17
of 60Hz coil powered at 60Hz	in-rush	VA	300
	holding	VA	20
Dissipation at holding ≤20°C 50Hz	W	6.5	
Max cycles frequency			
Mechanical operation	cycles/h	1500	
Operating times			
Average time for Us control			
in AC			
Closing NO	min	ms	16

Opening NO	max	ms	32
	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

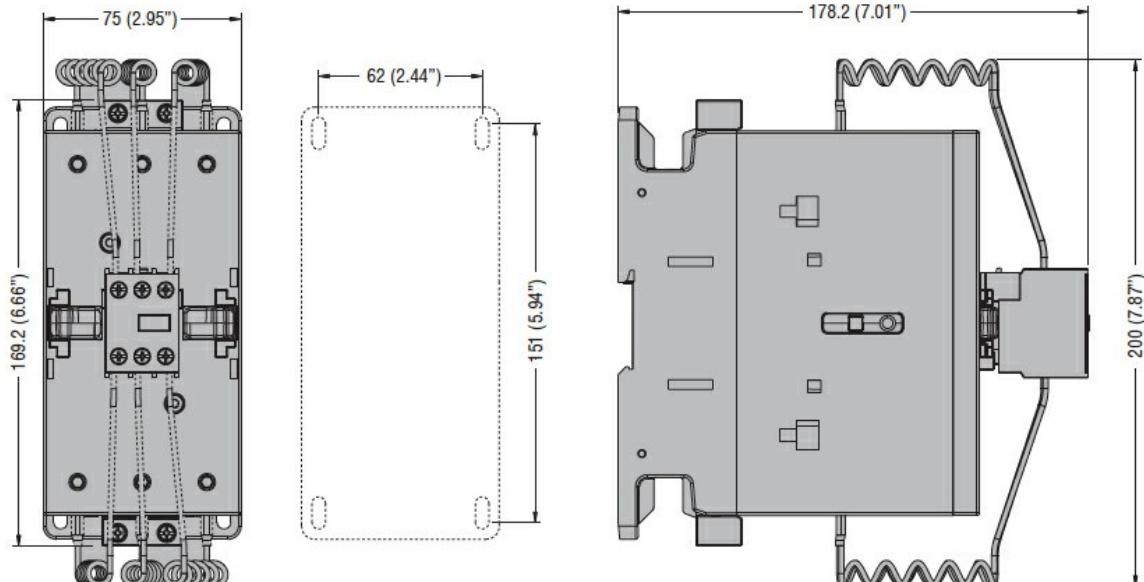
m 3000

Resistance & Protection

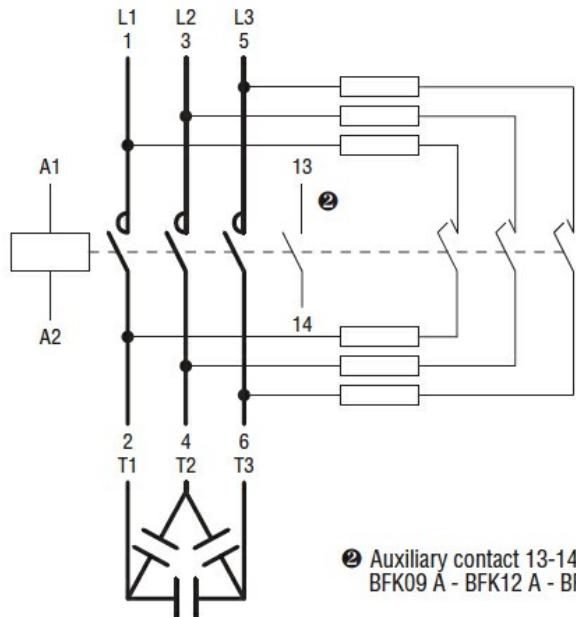
Pollution degree

3

Dimensions



Wiring diagrams



Certifications and compliance

Compliance

[CSA C22.2 n° 60947-1](#)

[CSA C22.2 n° 60947-4-1](#)

[IEC/EN 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