



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	
		m Ω	0.45	
Resistance per pole (average value)				0.45
Power dissipation per pole (average value)	I_{th}	W	11.5	
Tightening torque for terminals	min	Nm	6	
	max	Nm	7	
	min	Ibin	4.4	
	max	Ibin	5.2	
Tightening torque for coil terminal	min	Nm	0.8	
	max	Nm	1	
	min	Ibin	0.59	
	max	Ibin	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
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	1200000
		cycles	15000000
EMC compatibility			yes
AC coil operating			
Rated AC voltage at 50/60Hz		V	400
AC 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	min	%Us	40
	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
	max	ms	32
Opening NO	min	ms	9

max ms 24

UL technical data

Rated operational voltage AC (UL)

V 600

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

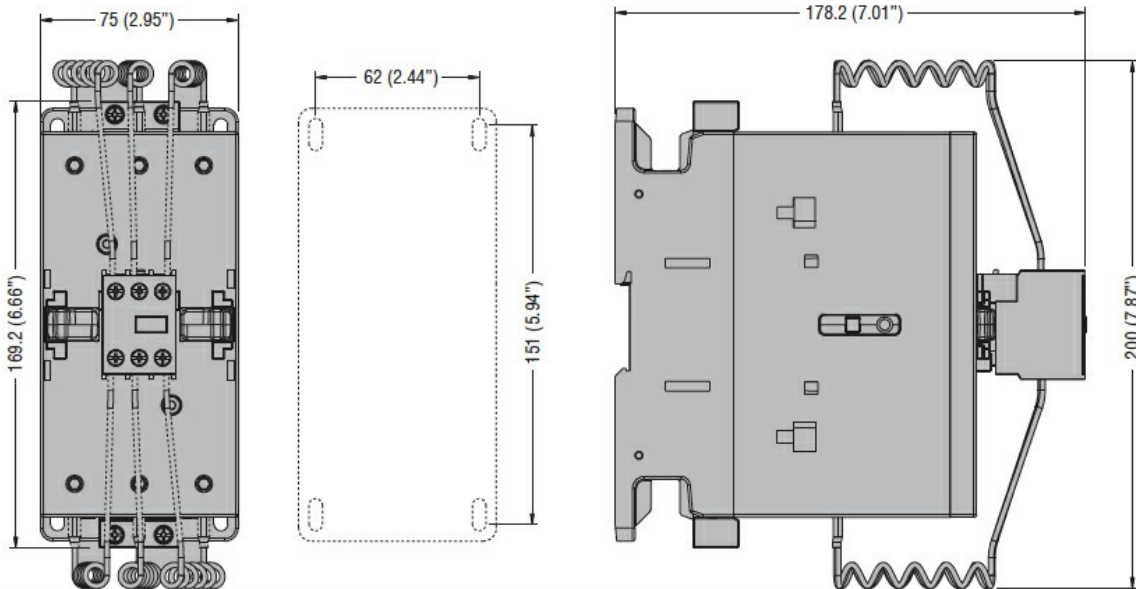
m 3000

Resistance & Protection

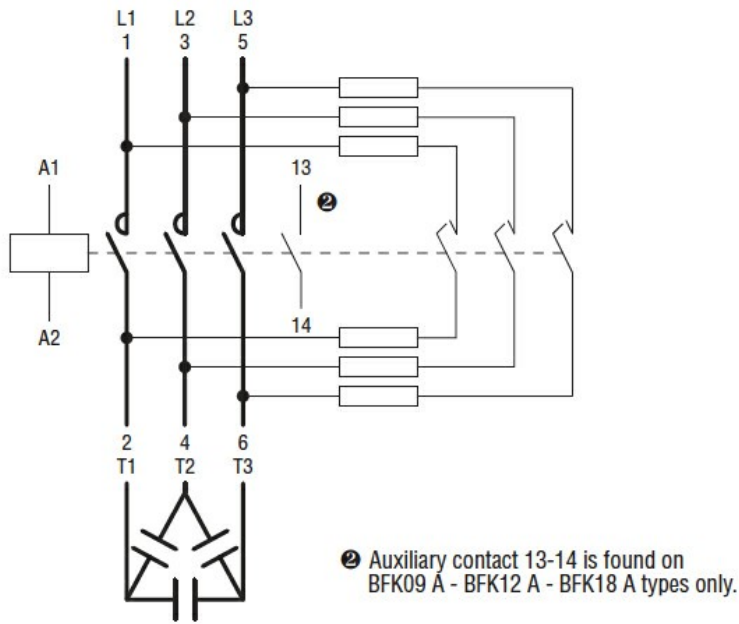
Pollution degree

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