



Product designation
Product type designation

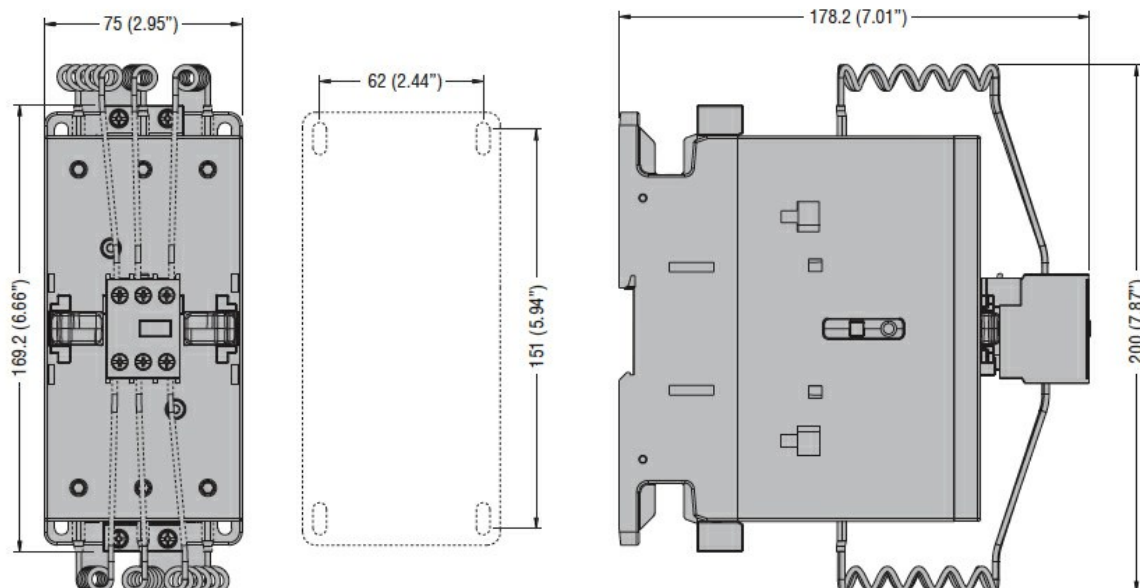
Power contactor
BFK115

Contact characteristics

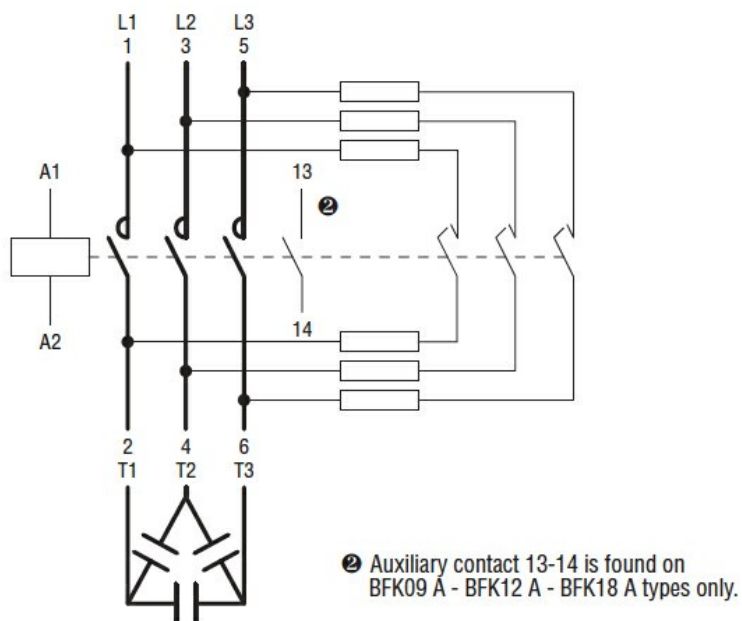
Number of poles	Nr.	3
Rated insulation voltage U_i IEC/EN	V	690
Rated impulse withstand voltage U_{imp}	kV	8
Operational frequency	min Hz	25
	max Hz	400
IEC Conventional free air thermal current I_{th}	A	160
Rated operational power AC-6b ($T \leq 40^\circ C$)	230V kvar	45
	400V kvar	75
	440...480V kvar	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)	mΩ	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	mm²	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 cycles	1200000 15000000
EMC compatibility			
yes			
AC coil operating			
Rated AC voltage at 50/60Hz			
		V	230
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