



Product designation
Product type designation

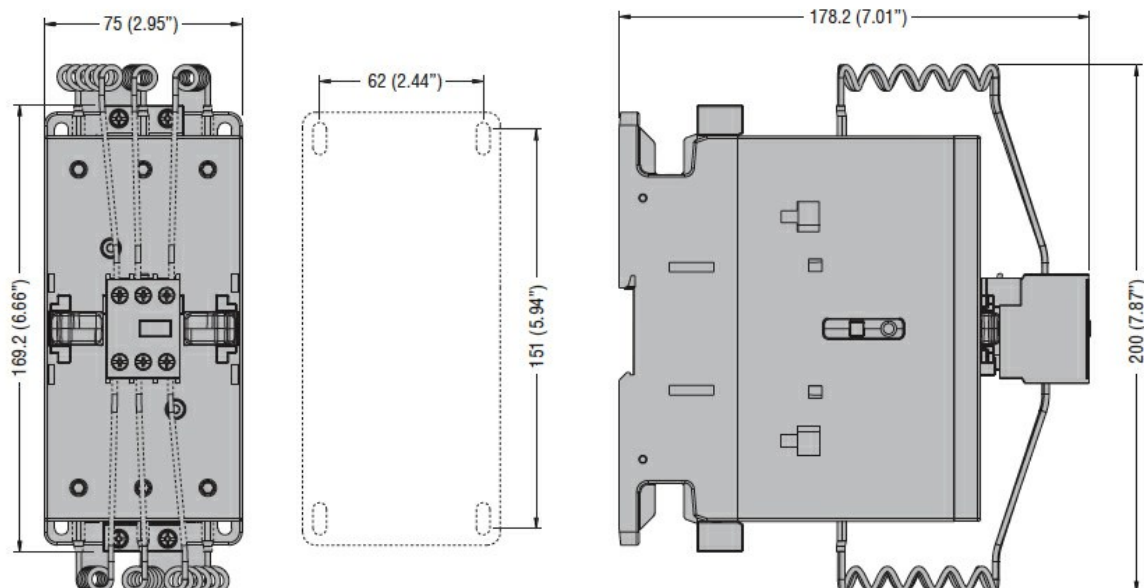
Power contactor
BFK95

Contact characteristics

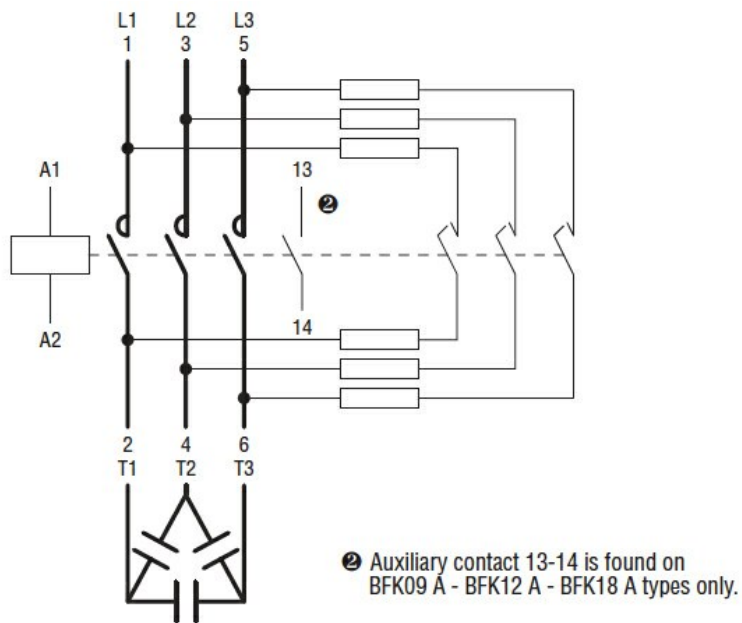
Number of poles	Nr.	3
Rated insulation voltage U_i IEC/EN	V	690
Rated impulse withstand voltage U_{imp}	kV	8
Operational frequency	min	Hz 25
	max	Hz 400
IEC Conventional free air thermal current I_{th}	A	140
Rated operational power AC-6b ($T \leq 40^\circ C$)	230V	kvar 34
	400V	kvar 60
	440...480V	kvar 75
	690V	kvar 80
Short-time allowable current for 10s (IEC/EN60947-1)	A	760
Protection fuse	gG (IEC)	A 125
Making capacity (RMS value)	A	1200
Breaking capacity at voltage	440V	A 1100
	500V	A 775
	690V	A 745
Resistance per pole (average value)	mΩ	0.45
Power dissipation per pole (average value)	I_{th}	W 8.8
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	400000
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
	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	140
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