



Product designation Power contactor
Product type designation BFK150

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	165
Rated operational power AC-6b ($T \leq 40^\circ C$)	230V kvar	50
	400V kvar	100
	440...480V kvar	115
	690V kvar	150
Short-time allowable current for 10s (IEC/EN60947-1)	A	1200
Protection fuse	gG (IEC)	A 160
Making capacity (RMS value)	A	1500
Breaking capacity at voltage	440V A	1200
	500V A	1025
	690V A	905
Resistance per pole (average value)	mΩ	0.45
Power dissipation per pole (average value)	I_{th} W	12
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

Power terminal protection according to IEC/EN 60529		max	mm ²	70
		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		800000
Safety related data				
Performance level B10d according to EN/ISO 13489-1		rated load mechanical load		cycles 800000 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		in-rush holding	VA VA	300 20
of 50/60Hz coil powered at 60Hz		in-rush holding	VA VA	300 17
of 60Hz coil powered at 60Hz		in-rush holding	VA VA	300 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	165
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Ambient conditions

Temperature

Operating temperature

min	°C	-50
max	°C	70

Storage temperature

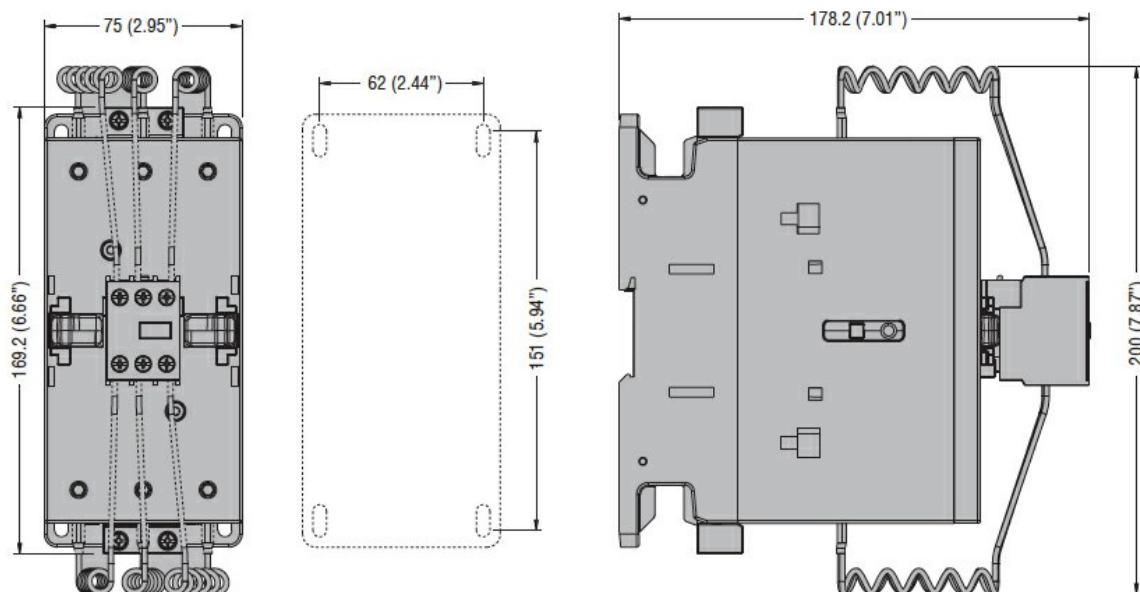
min	°C	-60
max	°C	80

Max altitude	m	3000
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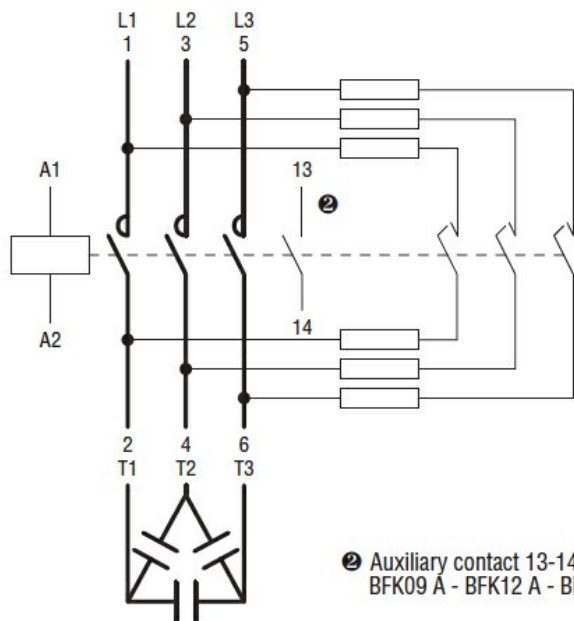
Resistance & Protection

Pollution degree	3
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Dimensions



Wiring diagrams



② Auxiliary contact 13-14 is found on
BFK09 A - BFK12 A - BFK18 A types only.

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