



Product designation			Power contactor
Product type designation			BFK150
Contact characteristics			
Number of poles	Nr.	3	
Rated insulation voltage Ui IEC/EN	V	690	
Rated impulse withstand voltage Uimp	kV	8	
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	A	165	
Rated operational power AC-6b (T≤40°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
		A	1500
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)	Ith	W	12
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	mm²	1.5
	max	mm²	70
Flexible c/w lug conductor section	min	mm²	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	800000
Safety related data				
Performance level B10d according to EN/ISO 13489-1				
		rated load mechanical load	cycles cycles	800000 15000000
EMC compatibility				
yes				
AC coil operating				
Rated AC voltage at 50/60Hz			V	24
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

Ambient conditions

Temperature

Operating temperature

min	°C	-50
max	°C	70

Storage temperature

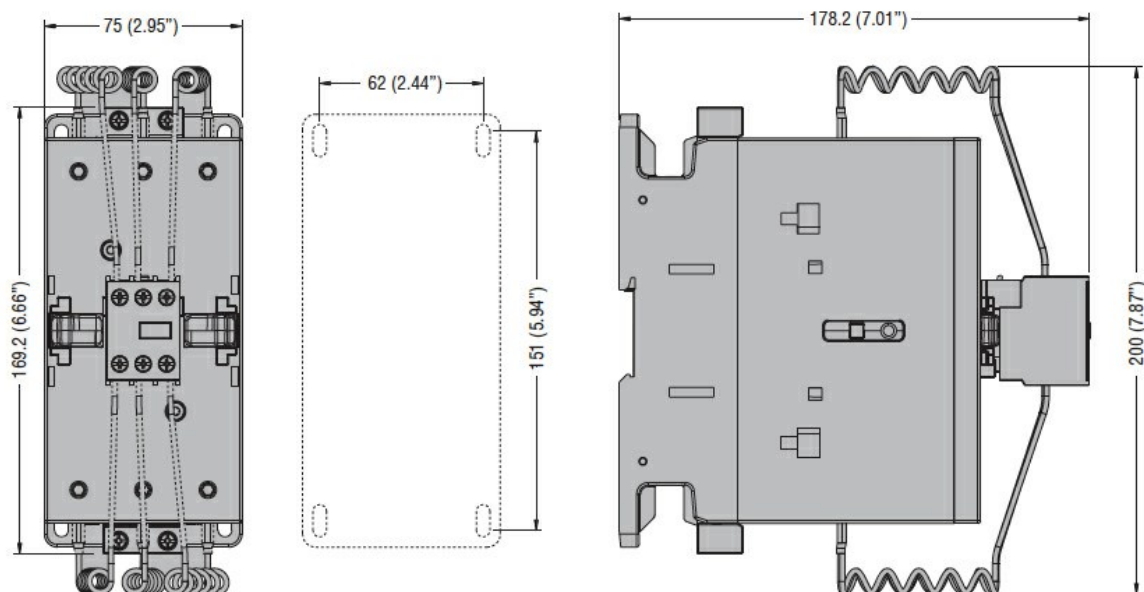
min	°C	-60
max	°C	80

Max altitude m 3000

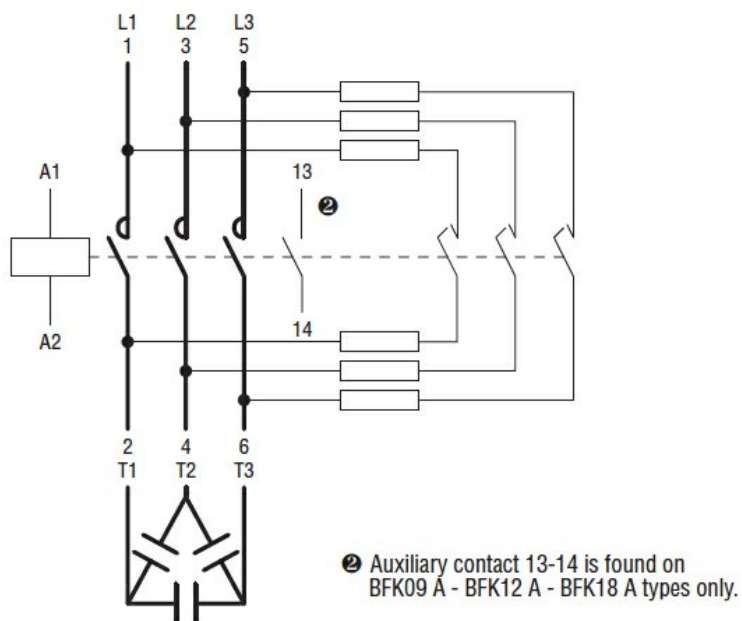
Resistance & Protection

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