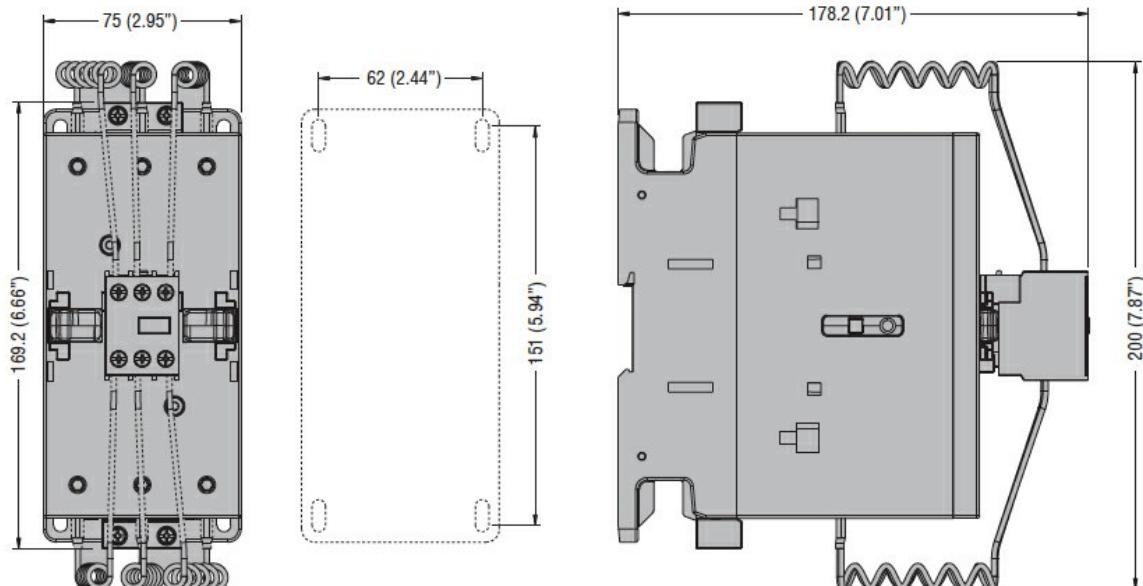




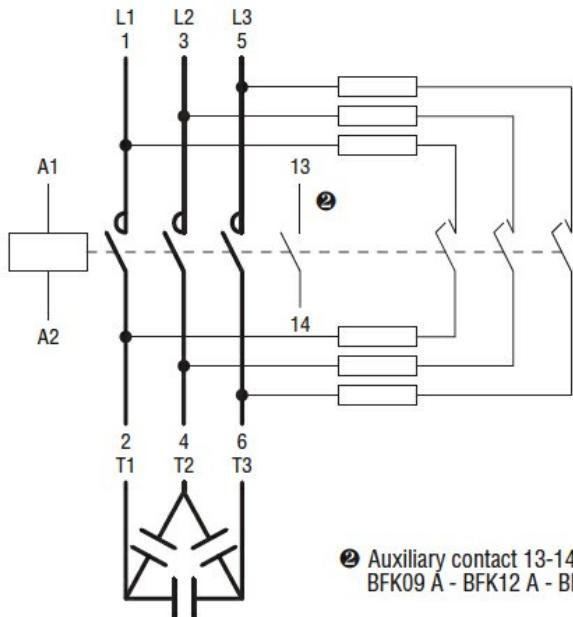
Product designation	Power contactor		
Product type designation	BFK150		
<b>Contact characteristics</b>			
Number of poles	Nr.	3	
Rated insulation voltage $U_i$ IEC/EN	V	690	
Rated impulse withstand voltage $U_{imp}$	kV	8	
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current $I_{th}$	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)	$m\Omega$	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

	max	mm <sup>2</sup>	70
Power terminal protection according to IEC/EN 60529			IP20 front
<b>Mechanical features</b>			
Operating position	normal allowable		Vertical plan ±30°
Fixing			Screw / DIN rail 35mm
Weight	g	2095	
<b>Operations</b>			
Mechanical life	cycles	15000000	
Electrical life	cycles	800000	
<b>Safety related data</b>			
Performance level B10d according to EN/ISO 13489-1	rated load mechanical load	cycles	800000 15000000
EMC compatibility			yes
<b>AC coil operating</b>			
Rated AC voltage at 50/60Hz	V	230	
AC operating voltage			
of 50/60Hz coil powered at 50Hz			
pick-up	min max	%Us %Us	80 110
drop-out			
min max	%Us %Us	20 55	
of 50/60Hz coil powered at 60Hz			
pick-up	min max	%Us %Us	85 110
drop-out			
min max	%Us %Us	40 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	
<b>Max cycles frequency</b>			
Mechanical operation	cycles/h	1500	
<b>Operating times</b>			
Average time for Us control			
in AC			
Closing NO	min max	ms ms	16 32
Opening NO			

		min	ms	9
		max	ms	24
<b>UL technical data</b>				
Rated operational voltage AC (UL)		V	600	
General USE				
Contactor		AC current	A	165
<b>Ambient conditions</b>				
Temperature				
Operating temperature		min	°C	-50
		max	°C	70
Storage temperature		min	°C	-60
		max	°C	80
Max altitude		m	3000	
<b>Resistance &amp; Protection</b>				
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