

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 ( $T \leq 40^\circ\text{C}$ )	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)						
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	Prodotti finiti			
	max	lbin	Prodotti finiti			
Max number of wires simultaneously connectable	Nr.	2				
Conductor section	Flexible w/o lug conductor section		min	mm <sup>2</sup>	1.5	
			max	mm <sup>2</sup>	70	
		Flexible c/w lug conductor section		min	mm <sup>2</sup>	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 $\pm 30^\circ$			
				Screw / DIN rail 35mm		
Fixing						
Weight			g	2095		
<b>Operations</b>						

Mechanical life		cycles	15000000
Electrical life		cycles	800000

**Safety related data**

Performance level B10d according to EN/ISO 13489-1

	rated load	cycles	400000
	mechanical load	cycles	15000000

EMC compatibility			Yes
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Rated AC voltage at 60Hz		V	120
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**AC coil operating**

AC operating voltage

of 60Hz coil powered at 60Hz  
pick-up

min	%Us	80
max	%Us	110

drop-out

min	%Us	20
max	%Us	55

AC average coil consumption at 20°C

of 50/60Hz coil powered at 50Hz

in-rush	VA	300
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
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**Max cycles frequency**

Mechanical operation		cycles/h	1500
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**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**

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

Dimensions

Wiring diagrams

Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1

IEC/EN 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

CCC

cULus

ETIM classification

ETIM 8.0

EC001079 -  
Capacitor  
contactor