

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		
		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 Ω	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 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 $\pm 30^\circ$		
				Screw / DIN rail 35mm	
Fixing					
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	cycles	400000
	mechanical load	cycles	15000000

EMC compatibility			Yes
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Rated AC voltage at 60Hz		V	460
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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