

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		Vertical plan		
	allowable		$\pm 30^\circ$		
Fixing				Screw / DIN rail 35mm	
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
-------------------	--	-----

Rated AC voltage at 60Hz	V	24
--------------------------	---	----

**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
-----------------------------------	--	---	-----

**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**

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 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