

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	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	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	Vertical plan	
	allowable	±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		cycles	400000
		mechanical load		cycles	15000000
EMC compatibility					Yes
Rated AC voltage at 60Hz				V	575
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