

Product designation				Power contactor
Product type designation				BFK50
<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			90
Rated operational power AC-6b ( $T \leq 40^\circ C$ )	230V	kvar	22	
	400V	kvar	40	
	440...480V	kvar	41	
	690V	kvar	46	
Short-time allowable current for 10s (IEC/EN60947-1)	A			400
Protection fuse	gG (IEC)	A	80	
		A	500	
Making capacity (RMS value)				500
Breaking capacity at voltage	440V	A	400	
	500V	A	352	
	690V	A	312	
Resistance per pole (average value)	m $\Omega$			0.8
Power dissipation per pole (average value)	$I_{th}$	W	6.5	
Tightening torque for terminals	min	Nm	4	
	max	Nm	5	
	min	lbin	2.95	
	max	lbin	3.69	
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>	35	
	Flexible c/w lug conductor section			
	min	mm <sup>2</sup>	1.5	
	max	mm <sup>2</sup>	35	
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			1090
<b>Operations</b>				



	max	°C	70
Storage temperature	min	°C	-60
	max	°C	80
Max altitude	m		3000
<b>Resistance &amp; Protection</b>			
Pollution degree			3
<b>Dimensions</b>			
<b>Wiring diagrams</b>			
<b>Certifications and compliance</b>			
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		
<b>ETIM classification</b>			
ETIM 8.0			EC001079 - Capacitor contactor