

Product designation			Power contactor
Product type designation			BFK38
Contact characteristics			
Number of poles	Nr.	3	
Rated insulation voltage Ui IEC/EN	V	690	
Rated impulse withstand voltage Uimp	kV	6	
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	A	56	
Rated operational power AC-6b (T≤40°C)	230V	kvar	17
	400V	kvar	30
	440...480V	kvar	33
	690V	kvar	36
Short-time allowable current for 10s (IEC/EN60947-1)	A	320	
Protection fuse	gG (IEC)	A	63
		A	380
Making capacity (RMS value)			
Breaking capacity at voltage	440V	A	304
	500V	A	240
	690V	A	192
Resistance per pole (average value)	mΩ	2	
Power dissipation per pole (average value)	Ith	W	6
Tightening torque for terminals	min	Nm	2.5
	max	Nm	3
	min	Ibin	1.8
	max	Ibin	2.2
Tightening torque for coil terminal	min	Nm	0.8
	max	Nm	1
	min	Ibin	Prodotti finiti
	max	Ibin	Prodotti finiti
Max number of wires simultaneously connectable	Nr.	2	
Conductor section			
Flexible w/o lug conductor section	min	mm²	2.5
	max	mm²	16
Flexible c/w lug conductor section	min	mm²	1
	max	mm²	10
Flexible with insulated spade lug conductor section	min	mm²	1
	max	mm²	10
Power terminal protection according to IEC/EN 60529	IP20 when wired		
Mechanical features			
Operating position	normal	Vertical plan	
	allowable	±30°	

Fixing			Screw / DIN rail 35mm	
Weight	g		400	
Operations				
Mechanical life	cycles		20000000	
Electrical life	cycles		1400000	
Safety related data				
Performance level B10d according to EN/ISO 13489-1				
	rated load mechanical load	cycles cycles	400000 20000000	
EMC compatibility			Yes	
Rated AC voltage at 60Hz	V		120	
AC coil operating				
AC operating voltage				
	of 60Hz coil powered at 60Hz pick-up	min max	%Us %Us	80 110
	drop-out	min max	%Us %Us	20 55
AC average coil consumption at 20°C				
	of 50/60Hz coil powered at 50Hz	in-rush holding	VA VA	75 9
	of 50/60Hz coil powered at 60Hz	in-rush holding	VA VA	70 7
	of 60Hz coil powered at 60Hz	in-rush holding	VA VA	75 9
Dissipation at holding ≤20°C 50Hz			W	2.5
Max cycles frequency				
Mechanical operation		cycles/h		3600
Operating times				
Average time for Us control in AC				
	Closing NO	min max	ms ms	8 24
	Opening NO	min max	ms ms	5 15
	Closing NC	min max	ms ms	9 20
UL technical data				
General USE				
	Contactor	AC current	A	56
Ambient conditions				
Temperature				
	Operating temperature	min	°C	-50

Storage temperature	max	°C	70
	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		
	EAC		
ETIM classification			
ETIM 8.0	EC001079 - Capacitor contactor		