

Product designation				Power contactor
Product type designation				BFK38
Contact characteristics				
Number of poles	Nr.			3
Rated insulation voltage U_i IEC/EN	V			690
Rated impulse withstand voltage U_{imp}	kV			6
Operational frequency	min	Hz	25	
	max	Hz	400	
IEC Conventional free air thermal current I_{th}	A			56
Rated operational power AC-6b ($T \leq 40^\circ C$)	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)				380
Breaking capacity at voltage	440V	A	304	
	500V	A	240	
	690V	A	192	
Resistance per pole (average value)			m Ω	2
Power dissipation per pole (average value)	I_{th}	W	6	
	min	Nm	2.5	
Tightening torque for terminals	max	Nm	3	
	min	I_{bin}	1.8	
	max	I_{bin}	2.2	
	min	Nm	0.8	
Tightening torque for coil terminal	max	Nm	1	
	min	I_{bin}	Prodotti finiti	
	max	I_{bin}	Prodotti finiti	
	min	Nm	0.8	
Max number of wires simultaneously connectable	Nr.			2
Conductor section	Flexible w/o lug conductor section			
	min	mm ²	2.5	
	max	mm ²	16	
	Flexible c/w lug conductor section			
	min	mm ²	1	
	max	mm ²	10	
Flexible with insulated spade lug conductor section				
	min	mm ²	1	
	max	mm ²	10	
Power terminal protection according to IEC/EN 60529				IP20 when wired
Mechanical features				
Operating position	normal allowable		Vertical plan $\pm 30^\circ$	

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	cycles	400000	
	mechanical load	cycles	20000000	
EMC compatibility				
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	%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	75	
	holding	VA	9	
of 50/60Hz coil powered at 60Hz				
	in-rush	VA	70	
	holding	VA	7	
of 60Hz coil powered at 60Hz				
	in-rush	VA	75	
	holding	VA	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	ms	8	
	max	ms	24	
Opening NO				
	min	ms	5	
	max	ms	15	
Closing NC				
	min	ms	9	
	max	ms	20	
UL technical data				
General USE				
Contactor				
	AC current	A	56	
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			
	EAC			
ETIM classification				
ETIM 8.0				EC001079 - Capacitor contactor