

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 ($T \leq 40^\circ\text{C}$)	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)	m Ω	2			
Power dissipation per pole (average value)	I_{th}	W	6		
Tightening torque for terminals	min	Nm	2.5		
	max	Nm	3		
	min	I_{bin}	1.8		
	max	I_{bin}	2.2		
Tightening torque for coil terminal	min	Nm	0.8		
	max	Nm	1		
	min	I_{bin}	Prodotti finiti		
	max	I_{bin}	Prodotti finiti		
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				Yes
Rated AC voltage at 60Hz	V			460
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