

Product designation				Power contactor
Product type designation				BFK95
Contact characteristics				
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			140
Rated operational power AC-6b ($T \leq 40^\circ C$)	230V	kvar	34	
	400V	kvar	60	
	440...480V	kvar	75	
	690V	kvar	80	
Short-time allowable current for 10s (IEC/EN60947-1)	A			760
Protection fuse	gG (IEC)	A	125	
		A	1200	
Making capacity (RMS value)				1200
Breaking capacity at voltage	440V	A	1100	
	500V	A	775	
	690V	A	745	
Resistance per pole (average value)	m Ω			0.45
Power dissipation per pole (average value)	I_{th}	W	8.8	
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	mm ²	1.5	
	max	mm ²	70	
	Flexible c/w lug conductor section			
	min	mm ²	1.5	
	max	mm ²	70	
Power terminal protection according to IEC/EN 60529				IP20 front
Mechanical features				
Operating position	normal			Vertical plan
	allowable			$\pm 30^\circ$
Fixing				Screw / DIN rail 35mm
Weight	g			2095
Operations				

Mechanical life		cycles	15000000
Electrical life		cycles	400000

Safety related data

Performance level B10d according to EN/ISO 13489-1

	rated load	cycles	400000
	mechanical load	cycles	15000000

EMC compatibility		Yes
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Rated AC voltage at 60Hz	V	24
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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

Dissipation at holding ≤20°C 50Hz	W	6.5
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Max cycles frequency

Mechanical operation	cycles/h	1500
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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	140
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Ambient conditions

Temperature	Operating temperature		
	min	°C	-50
	max	°C	70
	Storage temperature		
	min	°C	-60
	max	°C	80

Max altitude	m	3000
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Resistance & Protection

Pollution degree	3
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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