

Product designation			Power contactor
Product type designation			BFK115
Contact characteristics			
Number of poles	Nr.	3	
Rated insulation voltage Ui IEC/EN	V	690	
Rated impulse withstand voltage Uimp	kV	8	
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	A	160	
Rated operational power AC-6b (T≤40°C)	230V	kvar	45
	400V	kvar	75
	440...480V	kvar	85
	690V	kvar	135
Short-time allowable current for 10s (IEC/EN60947-1)	A	920	
Protection fuse	gG (IEC)	A	160
		A	1500
Making capacity (RMS value)		A	1500
Breaking capacity at voltage	440V	A	1200
	500V	A	850
	690V	A	905
Resistance per pole (average value)	mΩ	0.45	
Power dissipation per pole (average value)	Ith	W	11.5
Tightening torque for terminals	min	Nm	6
	max	Nm	7
	min	Ibin	4.4
	max	Ibin	5.2
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	1.5
	max	mm²	70
Flexible c/w lug conductor section	min	mm²	1.5
	max	mm²	70
Power terminal protection according to IEC/EN 60529		IP20 front	
Mechanical features			
Operating position	normal	Vertical plan	
	allowable	±30°	
Fixing		Screw / DIN rail 35mm	
Weight	g	2095	
Operations			

Mechanical life					cycles	15000000
Electrical life					cycles	1200000
Safety related data						
Performance level B10d according to EN/ISO 13489-1						
				rated load	cycles	400000
				mechanical load	cycles	15000000
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
Max cycles frequency						
Mechanical operation					cycles/h	1500
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	160
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					

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Certificates

CCC  
cULus

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ETIM classification

ETIM 8.0

EC001079 -  
Capacitor  
contactor