

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)			
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 mechanical load	cycles cycles	400000 15000000
EMC compatibility			Yes
Rated AC voltage at 60Hz		V	24
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
Max cycles frequency			
Mechanical operation		cycles/h	1500
Operating times			
Average time for Us control in AC	Closing NO	min max	ms ms 16 32
	Opening NO	min max	ms ms 9 24
UL technical data			
General USE	Contactactor	AC current	A 160
Ambient conditions			
Temperature	Operating temperature	min max	°C °C -50 70
	Storage temperature	min max	°C °C -60 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
ETIM classification	
ETIM 8.0	EC001079 - Capacitor contactor