

Product designation				Power contactor
Product type designation				BF95
<b>Contact characteristics</b>				
Number of poles	Nr.			3
Rated insulation voltage $U_i$ IEC/EN	V			1000
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
Operational current $I_e$	AC-1 ( $\leq 40^\circ\text{C}$ )	A	140	
	AC-1 ( $\leq 55^\circ\text{C}$ )	A	115	
	AC-1 ( $\leq 70^\circ\text{C}$ )	A	100	
	AC-3 ( $\leq 440\text{V} \leq 55^\circ\text{C}$ )	A	95	
	AC-4 (400V)	A	45	
Rated operational power AC-3 ( $T \leq 55^\circ\text{C}$ )	230V	kW	30	
	400V	kW	55	
	415V	kW	55	
	440V	kW	55	
	500V	kW	75	
	690V	kW	90	
	1000V	kW	45	
IEC max current $I_e$ in DC1 with $L/R \leq 1\text{ms}$ with 1 poles in series	$\leq 24\text{V}$	A	140	
	48V	A	140	
	75V	A	100	
	110V	A	10	
	220V	A	-	
IEC max current $I_e$ in DC1 with $L/R \leq 1\text{ms}$ with 2 poles in series	$\leq 24\text{V}$	A	140	
	48V	A	140	
	75V	A	140	
	110V	A	110	
	220V	A	12	
IEC max current $I_e$ in DC1 with $L/R \leq 1\text{ms}$ with 3 poles in series	$\leq 24\text{V}$	A	140	
	48V	A	140	
	75V	A	155	
	110V	A	120	
	220V	A	125	
IEC max current $I_e$ in DC1 with $L/R \leq 1\text{ms}$ with 4 poles in series	$\leq 24\text{V}$	A	140	
	48V	A	140	
	75V	A	155	
	110V	A	140	
	220V	A	140	
IEC max current $I_e$ in DC3-DC5 with $L/R \leq 15\text{ms}$ with 1 poles in series	$\leq 24\text{V}$	A	140	
	48V	A	44	
	75V	A	36	
	110V	A	6	

	220V	A	–
IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	≤24V	A	140
	48V	A	63
	75V	A	60
	110V	A	55
	220V	A	7
IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	≤24V	A	140
	48V	A	115
	75V	A	90
	110V	A	85
	220V	A	76
IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	≤24V	A	140
	48V	A	110
	75V	A	110
	110V	A	105
	220V	A	95
Short-time allowable current for 10s (IEC/EN60947-1)		A	760
Protection fuse	gG (IEC)	A	160
	aM (IEC)	A	100
Making capacity (RMS value)		A	1200
Breaking capacity at voltage	440V	A	1100
	500V	A	775
	690V	A	745
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)	Ith	W	8.8
	AC3	W	4.1
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
Conductor section	Flexible w/o lug conductor section		
	min	mm <sup>2</sup>	1.5
	max	mm <sup>2</sup>	70
	Flexible c/w lug conductor section		
	min	mm <sup>2</sup>	1.5
	max	mm <sup>2</sup>	70
Power terminal protection according to IEC/EN 60529	IP20 front		
<b>Mechanical features</b>			
Operating position	normal		Vertical plan

	allowable		±30°
Fixing			Screw / DIN rail 35mm
Weight	g		2020
<b>Auxiliary contact characteristics</b>			
Thermal current I <sub>th</sub>	A		140
<b>Operations</b>			
Mechanical life	cycles		15000000
Electrical life	cycles		1400000
Rated AC voltage at 60Hz	V		230
<b>AC coil operating</b>			
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
<b>Max cycles frequency</b>			
Mechanical operation	cycles/h		1500
<b>Operating times</b>			
Average time for U <sub>s</sub> control			
	in AC		
	Closing NO	min	ms 16
		max	ms 32
	Opening NO	min	ms 9
		max	ms 24
<b>UL technical data</b>			
Yielded mechanical performance			
	for three-phase AC motor		
		200/208V	HP 30
		220/230V	HP 30
		460/480V	HP 60
		575/600V	HP 75
<b>General USE</b>			
Contactor	AC current	A	150
Short-circuit protection fuse, 600V			
High fault	Short circuit current	kA	100
	Fuse rating	A	200
	Fuse class		J
Standard fault	Short circuit current	kA	10
	Fuse rating	A	250
	Fuse class		RK5
<b>Ambient conditions</b>			
Temperature			
	Operating temperature	min	°C -50

	max	°C	70
Storage temperature	min	°C	-60
	max	°C	+80
Max altitude		m	3000
<b>Dimensions</b>			
<b>Wiring diagrams</b>			
<b>Certifications and compliance</b>			
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		
<b>ETIM classification</b>			
ETIM 8.0			EC000066 - Power contactor, AC switching