

Product designation				Power contactor
Product type designation				BF95
Contact characteristics				
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 (≤40°C)	A	140	
	AC-1 (≤55°C)	A	115	
	AC-1 (≤70°C)	A	100	
	AC-3 (≤440V ≤55°C)	A	95	
	AC-4 (400V)	A	45	
Rated operational power AC-3 (T≤55°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 ≤ 1ms with 1 poles in series	≤24V	A	140	
	48V	A	140	
	75V	A	100	
	110V	A	10	
	220V	A	–	
IEC max current I _e in DC1 with L/R ≤ 1ms with 2 poles in series	≤24V	A	140	
	48V	A	140	
	75V	A	140	
	110V	A	110	
	220V	A	12	
IEC max current I _e in DC1 with L/R ≤ 1ms with 3 poles in series	≤24V	A	140	
	48V	A	140	
	75V	A	155	
	110V	A	120	
	220V	A	125	
IEC max current I _e in DC1 with L/R ≤ 1ms with 4 poles in series	≤24V	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 ≤ 15ms with 1 poles in series	≤24V	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 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		±30°
Fixing			Screw / DIN rail 35mm
Weight	g		2020
Auxiliary contact characteristics			
Thermal current I _{th}	A		140
Operations			
Mechanical life	cycles		15000000
Electrical life	cycles		1400000
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
Dissipation at holding ≤20°C 50Hz	W		6.5
Max cycles frequency			
Mechanical operation	cycles/h		1500
Operating times			
Average time for U _s control			
	in AC		
	Closing NO	min	ms 16
		max	ms 32
	Opening NO	min	ms 9
		max	ms 24
UL technical data			
Yielded mechanical performance			
	for three-phase AC motor		
		200/208V	HP 30
		220/230V	HP 30
		460/480V	HP 60
		575/600V	HP 75
General USE			
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
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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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

EC000066 -
 Power contactor,
 AC switching