

Product designation				Power contactor
Product type designation				BF95
Contact characteristics				
Number of poles	Nr.			4
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	
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 I_e in DC3-DC5 with $L/R \leq 15\text{ms}$ with 2 poles in series	$\leq 24\text{V}$	A	140	
	48V	A	63	
	75V	A	60	
	110V	A	55	
	220V	A	7	
IEC max current I_e in DC3-DC5 with $L/R \leq 15\text{ms}$ with 3 poles in series				

	≤24V	A	140
	48V	A	115
	75V	A	90
	110V	A	85
	220V	A	76
<hr/>			
IEC max current I _e 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
<hr/>			
Short-time allowable current for 10s (IEC/EN60947-1)		A	760
<hr/>			
Protection fuse	gG (IEC)	A	160
	aM (IEC)	A	100
<hr/>			
Making capacity (RMS value)		A	1200
<hr/>			
Breaking capacity at voltage	440V	A	1100
	500V	A	775
	690V	A	745
<hr/>			
Resistance per pole (average value)		mΩ	0.45
<hr/>			
Power dissipation per pole (average value)	I _{th}	W	8.8
	AC3	W	4.1
<hr/>			
Tightening torque for terminals	min	Nm	6
	max	Nm	7
	min	I _{bin}	4.4
	max	I _{bin}	5.2
<hr/>			
Tightening torque for coil terminal	min	Nm	0.8
	max	Nm	1
	min	I _{bin}	Prodotti finiti
	max	I _{bin}	Prodotti finiti
<hr/>			
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
<hr/>			
Power terminal protection according to IEC/EN 60529			IP20 front
<hr/>			
Mechanical features			
Operating position	normal		Vertical plan
	allowable		±30°
<hr/>			
Fixing			Screw / DIN rail
			35mm
<hr/>			
Weight		g	2420
<hr/>			
Auxiliary contact characteristics			
Thermal current I _{th}		A	140
<hr/>			
Operations			
Mechanical life		cycles	15000000

Electrical life		cycles	1400000
Rated AC voltage at 60Hz		V	230

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 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	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
--------------	--	---	------

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

EAC

ETIM classification

ETIM 8.0

EC000066 -
Power contactor,
AC switching