

Product designation				Power contactor
Product type designation				BF95
<b>Contact characteristics</b>				
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
IEC max current I <sub>e</sub> 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)			
	I <sub>th</sub>	W	8.8
	AC3	W	4.1
Tightening torque for terminals			
	min	Nm	6
	max	Nm	7
	min	I <sub>bin</sub>	4.4
	max	I <sub>bin</sub>	5.2
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	I <sub>bin</sub>	Prodotti finiti
	max	I <sub>bin</sub>	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 allowable	Vertical plan ±30°
Fixing			Screw / DIN rail 35mm
Weight		g	2420
<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	575

**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