

Product designation				Auxiliary contactor
Product type designation				BF00
<b>Contact characteristics</b>				
Number of poles		Nr.	4	
Rated insulation voltage $U_i$ IEC/EN		V	690	
Rated impulse withstand voltage $U_{imp}$		kV	6	
Operational frequency		min	Hz	25
		max	Hz	400
IEC Conventional free air thermal current $I_{th}$		A	10	
Operational current $I_e$		AC-1 ( $\leq 55^\circ\text{C}$ )		A 0
				A 0
Short-time allowable current for 10s (IEC/EN60947-1)				A 0
Protection fuse		gG (IEC)		A 25
Tightening torque for terminals		min	Nm	1.5
		max	Nm	1.8
		min	I <sub>bin</sub>	1.1
		max	I <sub>bin</sub>	1.5
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
Max number of wires simultaneously connectable		Nr.		2
Conductor section	Flexible w/o lug conductor section	min	mm <sup>2</sup>	1
		max	mm <sup>2</sup>	6
	Flexible c/w lug conductor section	min	mm <sup>2</sup>	1
		max	mm <sup>2</sup>	4
	Flexible with insulated spade lug conductor section	min	mm <sup>2</sup>	1
		max	mm <sup>2</sup>	4
Power terminal protection according to IEC/EN 60529				IP20 when wired
<b>Mechanical features</b>				
Operating position		normal allowable		Vertical plan $\pm 30^\circ$
				Screw / DIN rail 35mm
Fixing				
Weight		g		354
<b>Auxiliary contact characteristics</b>				
Type of contact				4 NO
Thermal current $I_{th}$		A	10	
IEC/EN 60947-5-1 designation				A600 - P600
Operating current AC15		230V	A	3
		400V	A	1.9
		500V	A	1.4

Operating current DC12	110V	A	5.7
Operating current DC13	24V	A	5.7
	48V	A	2.9
	60V	A	2.3
	110V	A	1.25
	125V	A	1.1
	220V	A	0.55
	600V	A	0.2

**Operations**

Mechanical life	cycles	20000000
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**Safety related data**

Performance level B10d according to EN/ISO 13489-1	mechanical load	cycles	20000000
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Mirror contacts according to IEC/EN 609474-4-1	YES
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EMC compatibility	Yes
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Rated AC voltage at 60Hz	V	120
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**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

AC average coil consumption at 20°C	of 50/60Hz coil powered at 50Hz		
	in-rush	VA	75
	holding	VA	9
	of 50/60Hz coil powered at 60Hz		
	in-rush	VA	70
	holding	VA	6.5
	of 60Hz coil powered at 60Hz		
	in-rush	VA	75
	holding	VA	9

Dissipation at holding ≤20°C 50Hz	W	2.5
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**Max cycles frequency**

Mechanical operation	cycles/h	3600
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**Operating times**

Average time for Us control	in AC		
	Closing NO		
	min	ms	8
	max	ms	24
	Opening NO		
	min	ms	10
	max	ms	20
	Closing NC		
	min	ms	17
	max	ms	30
	Opening NC		
	min	ms	7

max ms 18

**UL technical data**

General USE

Auxiliary contacts

AC current A 10

Contact rating of auxiliary contacts according to UL

A600 - P600

**Ambient conditions**

Temperature

Operating temperature

min °C -50  
max °C 70

Storage temperature

min °C -60  
max °C 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° 60947-5-1

IEC/EN 60947-1

IEC/EN 60947-5-1

UL 60947-1

UL 60947-5-1

Certificates

CCC

cULus

EAC

**ETIM classification**

ETIM 8.0

EC000196 -  
Contactor relay