

Product designation				Auxiliary contactor
Product type designation				BF00
Contact characteristics				
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
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	lbin	1.1	
	max	lbin	1.5	
Tightening torque for coil terminal	min	Nm	0.8	
	max	Nm	1	
	min	lbin	Prodotti finiti	
	max	lbin	Prodotti finiti	
Max number of wires simultaneously connectable			Nr.	2
Conductor section	Flexible w/o lug conductor section			
	min	mm ²	1	
	max	mm ²	6	
	Flexible c/w lug conductor section			
	min	mm ²	1	
	max	mm ²	4	
	Flexible with insulated spade lug conductor section			
	min	mm ²	1	
	max	mm ²	4	
Power terminal protection according to IEC/EN 60529				IP20 when wired
Mechanical features				
Operating position	normal allowable		Vertical plan $\pm 30^\circ$	
Fixing				Screw / DIN rail 35mm
Weight				g 360
Auxiliary contact characteristics				
Type of contact				3 NO + 1 NC
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	460
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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	14
	max	ms	28
	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