



Product type designation  Contact characteristics			BF00
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	10
Operational current le			
	AC-1 (≤55°C)	Α	0
Protection fuse			
	gG (IEC)	Α	25
Tightening torque for terminals	<u> </u>		
	min	Nm	1.5
	max	Nm	1.8
	min	Ibin	1.1
	max	Ibin	1.5
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.8
	max	Ibin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
	max		10
Flexible w/o lug conductor section			
tag somadon soston	min	mm²	1
	max	mm²	6
Flexible c/w lug conductor section			
The state of the s	min	mm²	1
	max	mm²	4
Flexible with insulated spade lug conductor section			
	min	mm²	1
	max	mm²	4
December 1997			IP20 when
Power terminal protection according to IEC/EN 60529			properly wired
Mechanical features			
Operating position			
•	normal		Vertical plan
	allowable		±30°



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Fixing			Screw / DIN rail 35mm
Weight		g	500
Conductor section			
A	AWG/kcmil conductor section		
	max		10
Auxiliary contact characte	eristics		
Thermal current Ith		Α	10
IEC/EN 60947-5-1 desig	nation		A600 - P600
Operating current AC15			
	230V	Α	3
	400V	Α	1.9
	500V	Α	1.4
Operating current DC12			
	110V	Α	5.7
Operating current DC13			
	24V	Α	5.7
	48V	Α	2.9
	60V	Α	2.3
	110V	Α	1.25
	125V	Α	1.1
	220V	Α	0.55
	600V	Α	0.2
Operations			
Mechanical life		cycles	2000000
Safety related data			
Performance level B10d	according to EN/ISO 13489-1		
	mechanical load	cycles	20000000
Mirror contats according	mechanical load	cycles	20000000 YES
Mirror contats according EMC compatibility	mechanical load	cycles	
	mechanical load	cycles	YES
EMC compatibility	mechanical load	cycles	YES
EMC compatibility DC coil operating	mechanical load		YES yes
EMC compatibility  DC coil operating  DC rated control voltage  DC operating voltage	mechanical load		YES yes
EMC compatibility  DC coil operating  DC rated control voltage  DC operating voltage	mechanical load to IEC/EN 609474-4-1		YES yes
EMC compatibility  DC coil operating  DC rated control voltage  DC operating voltage	mechanical load to IEC/EN 609474-4-1	V	YES yes 24
EMC compatibility  DC coil operating  DC rated control voltage  DC operating voltage	mechanical load to IEC/EN 609474-4-1  pick-up  min	V %Us	YES yes 24
EMC compatibility  DC coil operating  DC rated control voltage  DC operating voltage	mechanical load to IEC/EN 609474-4-1	V %Us	YES yes 24
EMC compatibility DC coil operating DC rated control voltage DC operating voltage	mechanical load to IEC/EN 609474-4-1  pick-up  min  max drop-out  min  max	V %Us %Us	YES yes 24 80 110
EMC compatibility  DC coil operating  DC rated control voltage  DC operating voltage	mechanical load to IEC/EN 609474-4-1  pick-up  min  max drop-out  min  max	V %Us %Us %Us	YES yes 24 80 110
EMC compatibility DC coil operating DC rated control voltage DC operating voltage	mechanical load to IEC/EN 609474-4-1  pick-up  min  max drop-out  min  max	V %Us %Us %Us	YES yes 24 80 110
EMC compatibility DC coil operating DC rated control voltage DC operating voltage  Average coil consumptio	mechanical load to IEC/EN 609474-4-1  Dick-up  min  max  drop-out  min  max  n ≤20°C	V %Us %Us %Us %Us	YES yes 24 80 110
EMC compatibility DC coil operating DC rated control voltage DC operating voltage  Average coil consumptio	mechanical load to IEC/EN 609474-4-1  pick-up  min  max drop-out  min  max  n ≤20°C  in-rush	V %Us %Us %Us %Us W W	YES yes 24 80 110 10 40 2.4 2.4
EMC compatibility DC coil operating DC rated control voltage DC operating voltage  Average coil consumptio  Max cycles frequency Mechanical operation	mechanical load to IEC/EN 609474-4-1  pick-up  min  max drop-out  min  max  n ≤20°C  in-rush	V  %Us %Us %Us %Us %Us	YES yes 24 80 110 10 40 2.4 2.4
EMC compatibility DC coil operating DC rated control voltage DC operating voltage  Average coil consumptio  Max cycles frequency Mechanical operation Operating times	mechanical load to IEC/EN 609474-4-1  Dick-up  min  max  drop-out  min  max  n ≤20°C  in-rush holding	V %Us %Us %Us %Us W W	YES yes 24 80 110 10 40 2.4 2.4
EMC compatibility DC coil operating DC rated control voltage DC operating voltage  Average coil consumption  Max cycles frequency Mechanical operation Operating times Average time for Us control	mechanical load to IEC/EN 609474-4-1  Dick-up  min  max  drop-out  min  max  n ≤20°C  in-rush holding	V %Us %Us %Us %Us W W	YES yes 24 80 110 10 40 2.4 2.4
EMC compatibility DC coil operating DC rated control voltage DC operating voltage  Average coil consumption  Max cycles frequency Mechanical operation Operating times Average time for Us control	mechanical load to IEC/EN 609474-4-1  pick-up  min  max drop-out  min  max  n ≤20°C  in-rush holding	V %Us %Us %Us %Us W W	YES yes 24 80 110 10 40 2.4 2.4
EMC compatibility DC coil operating DC rated control voltage DC operating voltage  Average coil consumption  Max cycles frequency Mechanical operation Operating times Average time for Us control	mechanical load to IEC/EN 609474-4-1  Dick-up  min max drop-out  min max  n ≤20°C  in-rush holding  trol n DC  Closing NO	V %Us %Us %Us %Us W W	YES yes 24 80 110 10 40 2.4 2.4 3600
EMC compatibility DC coil operating DC rated control voltage DC operating voltage  Average coil consumption  Max cycles frequency Mechanical operation Operating times Average time for Us control	mechanical load to IEC/EN 609474-4-1  pick-up  min  max drop-out  min  max  n ≤20°C  in-rush holding	V %Us %Us %Us %Us W W	YES yes 24 80 110 10 40 2.4 2.4 3600
EMC compatibility DC coil operating DC rated control voltage DC operating voltage  Average coil consumption  Max cycles frequency Mechanical operation Operating times Average time for Us control	mechanical load to IEC/EN 609474-4-1  Dick-up  min  max  drop-out  min  max  n ≤20°C  in-rush holding  trol n DC  Closing NO  min  max	V  %Us %Us %Us W W  cycles/h	YES yes 24 80 110 10 40 2.4 2.4 3600
EMC compatibility DC coil operating DC rated control voltage DC operating voltage  Average coil consumption  Max cycles frequency Mechanical operation Operating times Average time for Us control	mechanical load to IEC/EN 609474-4-1  bick-up  min max  drop-out  min max  n ≤20°C  in-rush holding  trol n DC  Closing NO  min max  Opening NO	V  %Us %Us %Us W W  cycles/h	YES yes 24  80 110  10 40  2.4 2.4 3600
EMC compatibility DC coil operating DC rated control voltage DC operating voltage  Average coil consumption  Max cycles frequency Mechanical operation Operating times Average time for Us control	mechanical load  to IEC/EN 609474-4-1   pick-up  min  max  drop-out  min  max  n ≤20°C  in-rush holding  trol n DC  Closing NO  min  max  Opening NO  min	V  %Us %Us %Us W W  cycles/h  ms ms	YES yes 24  80 110  10 40  2.4 2.4 3600  75 91 15
EMC compatibility DC coil operating DC rated control voltage DC operating voltage  Average coil consumption  Max cycles frequency Mechanical operation Operating times Average time for Us control	mechanical load to IEC/EN 609474-4-1  bick-up  min max  drop-out  min max  n ≤20°C  in-rush holding  trol n DC  Closing NO  min max  Opening NO	V  %Us %Us %Us W W  cycles/h	YES yes 24  80 110  10 40  2.4 2.4 3600



Closing N	IC
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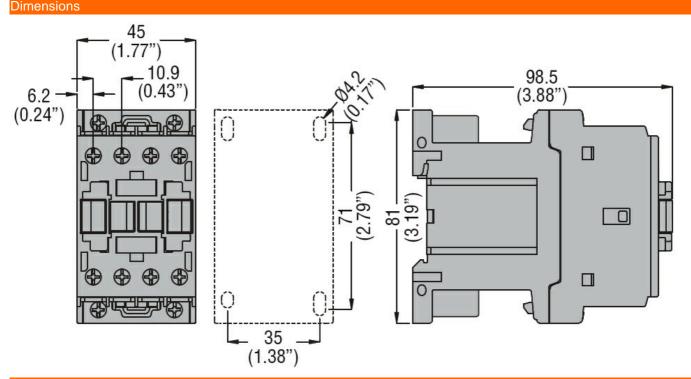
	min	ms	24
	max	ms	30
Opening NC			
	min	ms	67
	max	ms	81

## UL technical data

General USE

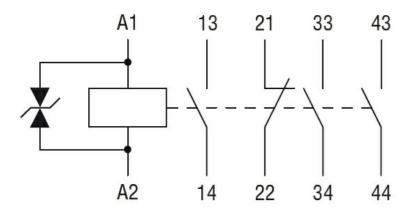
Auxiliary contacts

·	AC current	Α	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



## Wiring diagrams

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## 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