



Tightening torque for terminals					
Product type designation	Product designation				•
Contact characteristics           Number of poles         Nr. 4         4         Astade insulation voltage Ui IEC/EN         V 690         690         Astade insulation voltage Uimp         kV 6         7         2         5         7         8         0         7         2         6         7         2         6         7         2         6         7         2         6         7         2         7         1 <th< th=""><th>Froduct designation</th><th></th><th></th><th></th><th></th></th<>	Froduct designation				
Number of poles					BF00
Rated insulation voltage Ui IEC/EN		S			
Rated impulse withstand voltage Uimp					
Min					
Max				kV	6
IEC Conventional free air thermal current lth	Operational frequency	/			
IEC Conventional free air thermal current lth Operational current le			min	Hz	25
Operational current le         AC-1 (≤55°C)         A         0           Protection fuse         gG (IEC)         A         25           Tightening torque for terminals           min         Nm         1.5           max         Nm         1.5           Tightening torque for coil terminal         min         Nm         0.8           max         Nm         0.8           max         Nm         1           min         Ibin         0.8           max         Nm         1           Conductor section         Nr.         2           Conductor section         min         mm²         1           Flexible w/o lug conductor section         min         mm²         1           max         mm²         1           Flexible with insulated spade lug conductor section         min         mm²         1           max         mm²         1           max         mm²         4           Power terminal protection according to IEC/EN 60529         IP20 when properly wired			max		
AC-1 (≤55°C)				Α	10
Protection fuse   gG (IEC)	Operational current le				
Tightening torque for terminals			AC-1 (≤55°C)	Α	0
Tightening torque for terminals    min	Protection fuse				
Min   Nm   1.5   max   Nm   1.8   min   lbin   1.1   max   lbin   1.5   max   lbin   1.			gG (IEC)	Α	25
Max   Nm   1.8   min   lbin   1.1   max   lbin   1.5   max   lbin   0.8   max   lbin   0.74   min   lbin   0.8   max   lbin   0.74   max   lbin   lbin   lbin   lbin   lbin   lbin   lbin   0.74   max   lbin   0.74   max   lbin	Tightening torque for	terminals			
Min			min	Nm	
Max   Ibin   1.5			max		
Tightening torque for coil terminal    min   Nm   0.8   max   Nm   1   min   lbin   0.8   max   lbin   0.74     Max number of wires simultaneously connectable   Nr.   2     Conductor section			min		
min   Nm   0.8   max   Nm   1   min   Ibin   0.8   max   Ibin   0.74			max	lbin	1.5
Max   Nm   1   nin   nin   1bin   0.8   nax   1bin   0.74	Tightening torque for	coil terminal			
Max number of wires simultaneously connectable  Conductor section  AWG/Kcmil  AWG/Kcmil  AWG/Kcmil  Flexible w/o lug conductor section  Flexible c/w lug conductor section  Flexible c/w lug conductor section  Flexible with insulated spade lug co			min		
Max number of wires simultaneously connectable   Nr.   2					
Max number of wires simultaneously connectable         Nr. 2           Conductor section         max 10           Flexible w/o lug conductor section         min mm² 1 mm² 1 max mm² 6           Flexible c/w lug conductor section         min mm² 1 max mm² 4           Flexible with insulated spade lug conductor section         min mm² 1 max mm² 4           Power terminal protection according to IEC/EN 60529         IP20 when properly wired           Mechanical features         Operating position			min		
AWG/Kcmil   max   10			max		
AWG/Kcmil    max   10     Flexible w/o lug conductor section   min mm²   1     max mm²   6     Flexible c/w lug conductor section   min mm²   1     max mm²   4     Flexible with insulated spade lug conductor section   min mm²   1     Flexible with insulated spade lug conductor section   min mm²   1     Flexible with insulated spade lug conductor section   min mm²   1     Flexible with insulated spade lug conductor section   min mm²   1     Flexible with insulated spade lug conductor section   min mm²   1     Flexible with insulated spade lug conductor section   min mm²   1     Flexible with insulated spade lug conductor section   min mm²   1     Flexible with insulated spade lug conductor section   min mm²   1     Flexible with insulated spade lug conductor section   min mm²   1     Flexible with insulated spade lug conductor section   min mm²   1     Flexible with insulated spade lug conductor section   min mm²   1     Flexible with insulated spade lug conductor section   min mm²   1     Flexible with insulated spade lug conductor section   min mm²   1     Flexible with insulated spade lug conductor section   min mm²   1     Flexible with insulated spade lug conductor section   min mm²   1     Flexible with insulated spade lug conductor section   min mm²   1     Flexible with insulated spade lug conductor section   min mm²   1     Flexible with insulated spade lug conductor section   min mm²   1     Flexible with insulated spade lug conductor section   min mm²   1     Flexible with insulated spade lug conductor section   min mm²   1     Flexible with insulated spade lug conductor section   min mm²   1     Flexible with insulated spade lug conductor section   min mm²   1     Flexible with insulated spade lug conductor section   min mm²   1     Flexible with insulated spade lug conductor section   min mm²   1     Flexible with insulated spade lug conductor section   min mm²   1     Flexible with insulated spade lug conductor section   min mm²   1     Flexible with insulated spade lug conductor section   min mm²		simultaneously connectable		Nr.	2
Flexible w/o lug conductor section  Flexible c/w lug conductor section  Flexible c/w lug conductor section  Flexible with insulated spade lug conductor section  Flexible with insulated spade lug conductor section  min mm² 1 max mm² 4  Flexible with insulated spade lug conductor section  min mm² 1 max mm² 4  Flexible with insulated spade lug conductor section  Flexible with insulated spade lug conductor section  min mm² 1 max mm² 4  Flexible with insulated spade lug conductor section  min mm² 1 protection according to IEC/EN 60529  Mechanical features  Operating position  Vertical plan	Conductor section				
Flexible w/o lug conductor section  min mm² 1 max mm² 6  Flexible c/w lug conductor section  min mm² 1 max mm² 4  Flexible with insulated spade lug conductor section  min mm² 1 max mm² 4  Flexible with insulated spade lug conductor section  min mm² 1 max mm² 4  Power terminal protection according to IEC/EN 60529  Mechanical features  Operating position  Vertical plan		AWG/Kcmil			
min mm² 1 max mm² 6  Flexible c/w lug conductor section  min mm² 1 max mm² 4  Flexible with insulated spade lug conductor section  min mm² 1 max mm² 4  Flexible with insulated spade lug conductor section  min mm² 1 max mm² 4  Power terminal protection according to IEC/EN 60529  Mechanical features  Operating position  Normal  Vertical plan			max		10
Flexible c/w lug conductor section    min mm²   1 max mm²   4		Flexible w/o lug conductor section			
Flexible c/w lug conductor section  min mm² 1 max mm² 4  Flexible with insulated spade lug conductor section  min mm² 1 max mm² 4  Flexible with insulated spade lug conductor section  min mm² 1 max mm² 4  Power terminal protection according to IEC/EN 60529  Mechanical features  Operating position  normal  Vertical plan					
min mm² 1 max mm² 4  Flexible with insulated spade lug conductor section  min mm² 1 max mm² 1 max mm² 1 max mm² 4  Power terminal protection according to IEC/EN 60529  Mechanical features  Operating position  normal  Vertical plan			max	mm²	6
Flexible with insulated spade lug conductor section  min mm² 1 max mm² 1 max mm² 4  Power terminal protection according to IEC/EN 60529  Mechanical features  Operating position  normal  Vertical plan		Flexible c/w lug conductor section	_		
Flexible with insulated spade lug conductor section  min mm² 1 max mm² 4  Power terminal protection according to IEC/EN 60529  Mechanical features  Operating position  normal  Vertical plan					
min mm² 1 max mm² 4  Power terminal protection according to IEC/EN 60529  Mechanical features  Operating position  normal  Vertical plan		<del></del>		mm²	4
Power terminal protection according to IEC/EN 60529  Mechanical features Operating position  normal  Max mm² 4  IP20 when properly wired  Normal  Vertical plan		Flexible with insulated spade lug conductor section		_	
Power terminal protection according to IEC/EN 60529  Mechanical features  Operating position  normal  IP20 when properly wired  Mechanical features  Vertical plan					
Power terminal protection according to IEC/EN 60529  Mechanical features  Operating position  normal  Vertical plan			max	mm²	
Operating position normal Vertical plan		ction according to IEC/EN 60529			
normal Vertical plan	Mechanical features				
·	Operating position				
allowable ±30°					· ·
			allowable		±30°



**ENERGY AND AUTOMATION** 

Fixing			Screw / DIN rail
			35mm
Weight		g	358
Conductor section			
AWG/kcmil conductor section			4.0
A CONTRACTOR OF THE CONTRACTOR	max		10
Auxiliary contact characteristics		^	4.0
Thermal current Ith		Α	10 Acce Dece
IEC/EN 60947-5-1 designation			A600 - P600
Operating current AC15	230V	۸	3
	400V	A A	1.9
	500V	A	1.4
Operating current DC12	300 7		1.4
Operating current BO12	110V	Α	5.7
Operating current DC13	1100		J.1
Sportaining Surface De 10	24V	Α	5.7
	48V	A	2.9
	60V	A	2.3
	110V	Α	1.25
	125V	Α	1.1
	220V	Α	0.55
	600V	Α	0.2
Operations			
Mechanical life		cycles	20000000
Safety related data			
Performance level B10d according to EN/ISO 13489-1			
	mechanical load	cycles	20000000
Mirror contats according to IEC/EN 609474-4-1			YES
EMC compatibility			yes
AC coil operating			
Rated AC voltage at 50/60Hz		V	
		V	110
AC operating voltage		V	110
of 50/60Hz coil powered at 50Hz		V	110
of 50/60Hz coil powered at 50Hz	min	%Us	80
of 50/60Hz coil powered at 50Hz pick-up	min max		
of 50/60Hz coil powered at 50Hz	max	%Us %Us	80 110
of 50/60Hz coil powered at 50Hz pick-up	max min	%Us %Us %Us	80 110 20
of 50/60Hz coil powered at 50Hz pick-up drop-out	max	%Us %Us	80 110
of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz	max min	%Us %Us %Us	80 110 20
of 50/60Hz coil powered at 50Hz pick-up drop-out	max min max	%Us %Us %Us %Us	80 110 20 55
of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz	max min max min	%Us %Us %Us %Us	80 110 20 55
of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up	max min max	%Us %Us %Us %Us	80 110 20 55
of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz	max min max min max	%Us %Us %Us %Us %Us	80 110 20 55 80 110
of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up	max min max  min max  min max  min	%Us %Us %Us %Us %Us	80 110 20 55 80 110
of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out	max min max min max	%Us %Us %Us %Us %Us	80 110 20 55 80 110
of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out  AC average coil consumption at 20°C	max min max  min max  min max  min	%Us %Us %Us %Us %Us	80 110 20 55 80 110
of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out	max min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us	80 110 20 55 80 110 20 55
of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out  AC average coil consumption at 20°C	max min max  min max  min max  min max  in-rush	%Us %Us %Us %Us %Us	80 110 20 55 80 110 20 55
of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out  AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz	max min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us	80 110 20 55 80 110 20 55
of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out  AC average coil consumption at 20°C	max min max  min max  min max  min max  in-rush	%Us %Us %Us %Us %Us %Us %Us	80 110 20 55 80 110 20 55

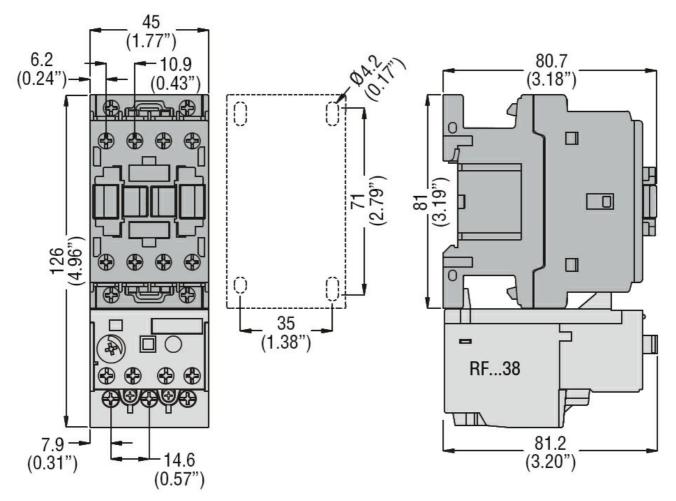


of 60Hz coil powered at 60Hz in-rush VA 75 holding VA 9 Dissipation at holding ≤20°C 50Hz W 2.5 Max cycles frequency Mechanical operation cycles/h 3600 Operating times Average time for Us control in AC Closing NO min ms 8 24 ms max Opening NO min ms 10 max ms 20 Closing NC min ms 14 28 max ms Opening NC min ms 7 18 max ms UL technical data General USE Auxiliary contacts AC current Α 10 A600 - P600 Contact rating of auxiliary contacts according to UL Ambient conditions Temperature Operating temperature °C -50 min °C 70 max Storage temperature °C -60 min max °C 80 Max altitude 3000 m Resistance & Protection Pollution degree 3

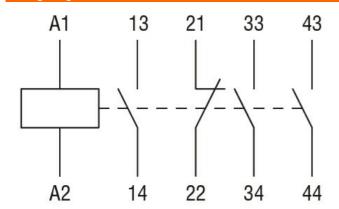
Dimensions







## 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





CONTROL RELAY WITH AC COIL 50/60HZ, 110VAC, 3NO AND 1NC

ETIM classification

ETIM 8.0

EC000196 -Contactor relay