



Product type designation	Product designation				Auxiliary contactor
Contact characteristics           Number of poles         Nr. 4           Rated insulation voltage Uir IEC/EN         V 690           Rated insulation voltage Uimp         kV 6           Operational frequency         min Hz 25 max Hz 400           IEC Conventional free air thermal current lith         A 10           Protection fuse         gG (IEC)         A 16           Tightening torque for terminals         min Nm 0.8 max Nm 1 min 1bin 9 max 1bin 9           Tightening torque for coil terminal         min Nm 0.8 max Nm 1 min 1bin 9 max 1bin 9           Tightening torque for viers simultaneously connectable         Nr. 2           Conductor section         max 1 mm 1 mm 1 mm 2 0.75 max mm 2 2.5           Flexible w/o lug conductor section         min mm 2 0.75 max mm 2 2.5           Flexible c/w lug conductor section         min mm 2 1.5 max mm 2 2.5           Flexible with insulated spade lug conductor section         min mm 2 1.5 max mm 2 2.5           Power terminal protection according to IEC/EN 60529         min mm 2 1.5 max mm 2 2.5           Prover terminal protection according to IEC/EN 60529         min mm 2 2.5 max mm 2 2.5           Mechanical features         Operating position         Vertical plan 430 mm	Product type designat	iion			
Rated insulation voltage Ui IEC/EN   V   690     Rated impulse withstand voltage Uimp   KV   6     Conventional frequency   min   Hz   25     max   Hz   400     IEC Conventional free air thermal current Ith   A   10     Protection fuse   gG (IEC)   A   16     Tightening torque for terminals   min   Nm   0.8     max   Nm   1     min   blin   9     max   blin   9     Tightening torque for coil terminal   min   blin   9     max   min   blin   9     max   min   blin   9     max   blin   9     blin   blin					
Rated impulse withstand voltage Ulimp	Number of poles			Nr.	4
Minimal Requency	Rated insulation voltage	ge Ui IEC/EN		V	690
Min	Rated impulse withsta	and voltage Uimp		kV	6
REC Conventional free air thermal current lth	Operational frequency	1			
EC Conventional free air thermal current Ith Protection fuse   gG (IEC)			min	Hz	25
Protection fuse   gG (IEC)			max	Hz	400
Tightening torque for terminals	IEC Conventional free	air thermal current Ith		Α	10
Tightening torque for terminals	Protection fuse				
Min   Nm   0.8   Min   1   Min   Min   1   Min   Min   1   Min   Min   1   Min   Min   Min   1   Min   Min			gG (IEC)	Α	16
Min   Nm   0.8   Min   1   Min   Min   1   Min   Min   1   Min   Min   1   Min   Min   Min   1   Min   Min	Tightening torque for t	terminals	<u> </u>		
Tightening torque for coil terminal			min	Nm	0.8
Tightening torque for coil terminal			max	Nm	1
Tightening torque for coil terminal			min	lbin	9
Min   Nm   0.8   max   Nm   1   min   lbin   9   max   lbin   12   max   max   max   max   12   max   max   max   max   2.5   max   max   max   2.5   max   max   max   max   2.5   max   max   max   max   max   2.5   max   ma			max	lbin	9
Min   Nm   0.8   max   Nm   1   min   lbin   9   max   lbin   12   max   max   max   max   12   max   max   max   max   2.5   max   max   max   2.5   max   max   max   max   2.5   max   max   max   max   max   2.5   max   ma	Tightening torque for	coil terminal			
Max number of wires simultaneously connectable         min max         lbin lbin lbin lbin lbin lbin lbin lbin			min	Nm	0.8
Max number of wires simultaneously connectable         Nr.         2           Conductor section         AWG/Kcmil         max         12           Flexible w/o lug conductor section         min         mm²         0.75           Flexible c/w lug conductor section         min         mm²         2.5           Flexible with insulated spade lug conductor section         min         mm²         1.5           Flexible with insulated spade lug conductor section         min         mm²         2.5           Power terminal protection according to IEC/EN 60529         IP20 when properly wired           Mechanical features         normal allowable         Vertical plan allowable         ± 30°           Fixing         Screw / DIN rail 35mm			max	Nm	1
Max number of wires simultaneously connectable         Nr.         2           Conductor section         max         12           Flexible w/o lug conductor section         min mm² mm² mm² 2.5         0.75 max mm² 2.5           Flexible c/w lug conductor section         min mm² mm² mm² 1.5 max mm² 2.5         1.5 max mm² 2.5           Flexible with insulated spade lug conductor section         min mm² mm² 1.5 max mm² 2.5         1.5 max max mm² 2.5           Power terminal protection according to IEC/EN 60529         IP20 when properly wired           Mechanical features         normal allowable         ±30°           Fixing         Screw / DIN rail 35mm			min	lbin	9
AWG/Kcmil   max   12			max	lbin	9
AWG/Kcmil   max   12	Max number of wires	simultaneously connectable		Nr.	2
Max	Conductor section				
Flexible w/o lug conductor section  min mm² 0.75 max mm² 2.5  Flexible c/w lug conductor section  min mm² 1.5 max mm² 2.5  Flexible with insulated spade lug conductor section  min mm² 1.5 max mm² 2.5  Flexible with insulated spade lug conductor section  min mm² 1.5 max mm² 2.5  Flexible with insulated spade lug conductor section  min mm² 1.5 max mm² 2.5  IP20 when properly wired  Mechanical features  Operating position  Normal vertical plan ±30°  Fixing  Fixing  Fixing		AWG/Kcmil			
Min min mm²			max		12
Flexible c/w lug conductor section    Flexible c/w lug conductor section		Flexible w/o lug conductor section			
Flexible c/w lug conductor section  min mm² 1.5 max mm² 2.5  Flexible with insulated spade lug conductor section  min mm² 1.5 max mm² 2.5  Flexible with insulated spade lug conductor section  min mm² 1.5 max mm² 2.5  Power terminal protection according to IEC/EN 60529  Mechanical features  Operating position  normal allowable ±30°  Screw / DIN rail 35mm		-	min	mm²	0.75
min mm² 1.5 max mm² 2.5  Flexible with insulated spade lug conductor section  min mm² 1.5 max mm² 1.5 max mm² 2.5  Power terminal protection according to IEC/EN 60529  Poperating position  normal normal allowable ±30°  Fixing  Fixing			max	mm²	2.5
Flexible with insulated spade lug conductor section  min mm² 1.5 max mm² 2.5  min mm² 1.5 max mm² 2.5  Power terminal protection according to IEC/EN 60529  Mechanical features  Operating position  normal normal allowable ±30°  Fixing  Fixing		Flexible c/w lug conductor section			
Flexible with insulated spade lug conductor section  min mm² 1.5 max mm² 2.5  Power terminal protection according to IEC/EN 60529  Mechanical features  Operating position  normal vertical plan allowable ±30°  Fixing  Fixing			min	mm²	1.5
min mm² 1.5 max mm² 2.5  Power terminal protection according to IEC/EN 60529  Mechanical features Operating position  normal normal allowable ±30°  Fixing  Screw / DIN rail 35mm			max	mm²	2.5
min mm² 1.5 max mm² 2.5  Power terminal protection according to IEC/EN 60529  Mechanical features Operating position  normal normal allowable ±30°  Fixing  Screw / DIN rail 35mm		Flexible with insulated spade lug conductor section			
Power terminal protection according to IEC/EN 60529  Mechanical features  Operating position  normal Vertical plan allowable ±30°  Fixing  Screw / DIN rail 35mm			min	mm²	1.5
Mechanical features  Operating position  normal vertical plan allowable ±30°  Fixing  Fixing  Properly wired  Normal vertical plan allowable ±30°  Screw / DIN rail 35mm			max	mm²	2.5
Mechanical features  Operating position  normal Vertical plan allowable ±30°  Fixing  Screw / DIN rail 35mm	Power terminal protection according to IFC/FN 60529				IP20 when
Operating position  normal Vertical plan allowable ±30°  Fixing  Screw / DIN rail 35mm	<u> </u>	ction according to IEC/EN 00329			properly wired
normal Vertical plan allowable ±30°  Fixing Screw / DIN rail 35mm					
Fixing allowable ±30° Screw / DIN rail 35mm	Operating position				
Fixing Screw / DIN rail 35mm					•
Fixing 35mm			allowable		
30mm	Fixing			_	
Weight g 186					
	Weight			g	186



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Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact chara	acteristics			
Thermal current Ith			A	10
IEC/EN 60947-5-1 des	<del>-</del>			A600 - Q600
Operating current AC1	5			
		230V	Α	3
		400V	Α	1.9
		500V	A	1.4
Operating current DC1	12		_	
0 " " "	10	110V	Α	2.9
Operating current DC1	13	2.07		
		24V	A	2.9
		48V	A	1.4
		60V	A	1.2
		110V	A	0.6
		125V	A	0.55
		220V	A	0.3
Onenstions		600V	Α	0.1
Operations Machanical life			evel e e	20000000
Mechanical life			cycles	20000000
Safety related data	0d according to EN/ISO 12490 1			
renormance level bit	0d according to EN/ISO 13489-1	الممال المعادمة المعادمة	avala a	20000000
Mirror contato accordi	ng to IFC/FN 600474 4 4	mechanical load	cycles	20000000 YES
EMC compatibility	ng to IEC/EN 609474-4-1			
				1/00
				yes
AC coil operating	0H <sub>7</sub>		V	
AC coil operating Rated AC voltage at 6	0Hz		V	230
AC coil operating			V	
AC coil operating Rated AC voltage at 6	of 60Hz coil powered at 60Hz		V	
AC coil operating Rated AC voltage at 6		min		230
AC coil operating Rated AC voltage at 6	of 60Hz coil powered at 60Hz	min	%Us	230
AC coil operating Rated AC voltage at 6	of 60Hz coil powered at 60Hz pick-up	min max		230
AC coil operating Rated AC voltage at 6	of 60Hz coil powered at 60Hz	max	%Us %Us	230 75 115
AC coil operating Rated AC voltage at 6	of 60Hz coil powered at 60Hz pick-up	max min	%Us %Us %Us	230 75 115 20
AC coil operating Rated AC voltage at 6 AC operating voltage	of 60Hz coil powered at 60Hz pick-up drop-out	max	%Us %Us	230 75 115
AC coil operating Rated AC voltage at 6	of 60Hz coil powered at 60Hz pick-up drop-out umption at 20°C	max min	%Us %Us %Us	230 75 115 20
AC coil operating Rated AC voltage at 6 AC operating voltage	of 60Hz coil powered at 60Hz pick-up drop-out	max min	%Us %Us %Us	230 75 115 20
AC coil operating Rated AC voltage at 6 AC operating voltage	of 60Hz coil powered at 60Hz pick-up drop-out umption at 20°C	max min max	%Us %Us %Us %Us	230 75 115 20 55
AC coil operating Rated AC voltage at 6 AC operating voltage	of 60Hz coil powered at 60Hz pick-up drop-out umption at 20°C	max min max in-rush	%Us %Us %Us %Us	230 75 115 20 55
AC coil operating Rated AC voltage at 6 AC operating voltage	of 60Hz coil powered at 60Hz pick-up  drop-out  umption at 20°C of 50/60Hz coil powered at 50Hz	max min max in-rush	%Us %Us %Us %Us	230 75 115 20 55
AC coil operating Rated AC voltage at 6 AC operating voltage	of 60Hz coil powered at 60Hz pick-up  drop-out  umption at 20°C of 50/60Hz coil powered at 50Hz	max min max in-rush holding	%Us %Us %Us %Us VA	230 75 115 20 55 30 4
AC coil operating Rated AC voltage at 6 AC operating voltage	of 60Hz coil powered at 60Hz pick-up  drop-out  umption at 20°C of 50/60Hz coil powered at 50Hz	max min max in-rush holding in-rush	%Us %Us %Us %Us VA VA	230  75 115 20 55  30 4
AC coil operating Rated AC voltage at 6 AC operating voltage	of 60Hz coil powered at 60Hz pick-up  drop-out  umption at 20°C of 50/60Hz coil powered at 50Hz  of 50/60Hz coil powered at 60Hz	max min max in-rush holding in-rush	%Us %Us %Us %Us VA VA	230  75 115 20 55  30 4
AC coil operating Rated AC voltage at 6 AC operating voltage	of 60Hz coil powered at 60Hz pick-up  drop-out  umption at 20°C of 50/60Hz coil powered at 50Hz  of 50/60Hz coil powered at 60Hz	max min max in-rush holding in-rush holding	%Us %Us %Us %Us VA VA	230  75 115 20 55 30 4 25 3
AC coil operating Rated AC voltage at 6 AC operating voltage  AC average coil consu	of 60Hz coil powered at 60Hz pick-up  drop-out  umption at 20°C of 50/60Hz coil powered at 50Hz  of 50/60Hz coil powered at 60Hz  of 60Hz coil powered at 60Hz	max min max  in-rush holding in-rush holding in-rush	%Us %Us %Us %Us VA VA	230  75 115 20 55  30 4  25 3 30
AC coil operating Rated AC voltage at 6 AC operating voltage	of 60Hz coil powered at 60Hz pick-up  drop-out  umption at 20°C of 50/60Hz coil powered at 50Hz  of 50/60Hz coil powered at 60Hz  of 60Hz coil powered at 60Hz	max min max  in-rush holding in-rush holding in-rush	%Us %Us %Us %Us VA VA VA	230  75 115 20 55  30 4  25 3 30 4
AC coil operating Rated AC voltage at 6 AC operating voltage  AC average coil consu  Dissipation at holding	of 60Hz coil powered at 60Hz pick-up  drop-out  umption at 20°C of 50/60Hz coil powered at 50Hz  of 50/60Hz coil powered at 60Hz  of 60Hz coil powered at 60Hz	max min max  in-rush holding in-rush holding in-rush	%Us %Us %Us %Us VA VA VA	230  75 115 20 55 30 4 25 3 30 4 0.95
AC coil operating Rated AC voltage at 6 AC operating voltage  AC average coil consultation  Dissipation at holding Max cycles frequency	of 60Hz coil powered at 60Hz pick-up  drop-out  umption at 20°C of 50/60Hz coil powered at 50Hz  of 50/60Hz coil powered at 60Hz  of 60Hz coil powered at 60Hz	max min max  in-rush holding in-rush holding in-rush	%Us %Us %Us %Us VA VA VA	230  75 115 20 55 30 4 25 3 30 4 0.95
AC coil operating Rated AC voltage at 6 AC operating voltage  AC average coil consultation  Dissipation at holding  Max cycles frequency  Mechanical operation	of 60Hz coil powered at 60Hz pick-up  drop-out  umption at 20°C of 50/60Hz coil powered at 50Hz  of 50/60Hz coil powered at 60Hz  of 60Hz coil powered at 60Hz  ≤20°C 50Hz	max min max  in-rush holding in-rush holding in-rush	%Us %Us %Us %Us VA VA VA	230  75 115 20 55 30 4 25 3 30 4 0.95

11BG0022A23060 The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

in AC

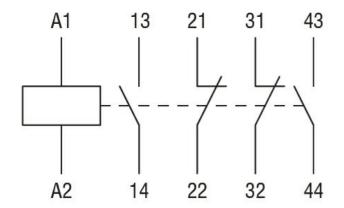


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		Closing NO				
		Closing NO	,	min	ms	12
				nax	ms	21
		Opening NO		io.	0	
		- p		min	ms	9
				nax	ms	18
		Closing NC				
		_	1	min	ms	17
			n	nax	ms	26
		Opening NC				
			r	min	ms	7
	-		n	nax	ms	17
	in DC					
		Closing NO		_		
				min	ms	18
		0		nax	ms	25
		Opening NO		mir.	<b>m</b> -	2
				min	ms	2
		Closing NC	n	nax	ms	3
		Closing INC	,	min	ms	3
				nax	ms	5
		Opening NC		IUA	1113	3
		opening 110		min	ms	11
				nax	ms	17
UL technical data						
General USE						
	Contactor					
			AC curr	ent	Α	10
	ry contacts according to	UL				A600 - Q600
Ambient conditions						
Temperature						
	Operating temperature					
				min	°C	-50
	01		n	nax	°C	+70
	Storage temperature			min	°C	-60
				min nax	°C	-60 +80
Max altitude				ιαλ	m	3000
Resistance & Protectio	n				111	3000
Pollution degree						3
Dimensions						
4.4 (0.17") (0.17") (0.17") (0.17") (0.33") (0.33") (0.38")	34.9 (1.37")		44 (1.73") (1.73") (1.37") (1.37")	3.2 (0.12")		RF9
8.5			44			89.2 - 7.6 (0.30")
Wiring diagrams			(1.73")		•	89.2 (3.51") (0.30")



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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

cULus

EAC

## ETIM classification

**ETIM 8.0** 

EC000196 -Contactor relay