



Product type designation	Product designation				Auxiliary contactor
Contact characteristics           Number of poles         N. 4           Rated insulation voltage UI IEC/EN         V 690           Rated insulation voltage UIImp         kV 6           Operational frequency         min Hz 2 25 max Hz 2 400           IEC Conventional free air thermal current lth         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 coil terminal         min Nm 0.8 max Nm 1 min 1bin 9 max 1bin 9           Max number of wires simultaneously connectable         Nr. 2           Conductor section         min mm 1bin 9           AWG/Kcmil         max 12           Flexible w/o lug conductor section         min mm 2 mm 2 0.75 max mm 2 2.5           Flexible c/w lug conductor section         min mm 2 0.75 max mm 2 2.5           Flexible with insulated spade 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           Flexible with insulated spade lug conductor section         min mm 2 1.5 max mm 2 2.5           Flexible with insulated spade lug conductor section         min mm 2 2.5 max mm 2 2.5	Product type designat				
Rated insulation voltage Ui IEC/EN					
Rated insulation voltage Ui IEC/EN				Nr.	4
Rated impulse withstand voltage Uimp			V	690	
Protectional frequency				kV	6
Min	Operational frequency	'			
EC Conventional free air thermal current Ith			min	Hz	25
Protection fuse         gG (IEC)         A         16           Tightening torque for terminals           min         Nm         0.8           max         Nm         1           Min         bin         9           Tightening torque for coil terminal         min         Nm         0.8           max         Nm         1           Tightening torque for coil terminal         nm         0.8           Min         Nm         0.8           Min         nm         12           Tightening torque for coil terminal         nm         12           Tightening torque for coil terminal         nm         12           Tightening torque for coil terminal         nm			max	Hz	400
Tightening torque for terminals	IEC Conventional free	air thermal current Ith		Α	10
Tightening torque for terminals	Protection fuse				
Tightening torque for terminals			gG (IEC)	Α	16
Min	Tightening torque for t	erminals			
Part   Part			min	Nm	0.8
Tightening torque for coil terminal			max	Nm	1
Tightening torque for coil terminal			min	Ibin	9
Min   Nm   0.8   max   Nm   1   min			max	Ibin	9
Max number of wires simultaneously connectable   Max number of wires simultaneously connectable   Nr.   2	Tightening torque for o	coil terminal			
Max number of wires simultaneously connectable         Nr.         2           Conductor section         AWG/Kcmil         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 1.5 max mm² 2.5         1.5 max mm² 2.5           Flexible with insulated spade lug conductor section         min mm² mm² 2.5         1.5 max mm² 2.5           Power terminal protection according to IEC/EN 60529         IP20 when properly wired properly wired properly wired allowable         IP20 when properly wired the sallowable         IP20 when properly wired the sallowable         IP30°           Fixing         Screw / DIN rail 35mm         Screw / DIN rail 35mm         Screw / DIN rail 35mm			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 mm² on mm			max	Nm	1
Max number of wires simultaneously connectable         Nr.         2           Conductor section         AWG/Kcmil         max         12           Flexible w/o lug conductor section         min mm² mm² 2.5         0.75 max mm² 2.5           Flexible c/w lug conductor section         min mm² mm² 1.5 max mm² 2.5         Flexible with insulated spade lug conductor section           Flexible with insulated spade lug conductor section         min mm² mm² 2.5         1.5 max mm² 2.5           Power terminal protection according to IEC/EN 60529         IP20 when properly wired           Mechanical features         Operating position         normal allowable ± 30°         Vertical plan ± 30°         Screw / DIN rail 35mm			min	lbin	9
AWG/Kcmil			max	lbin	9
AWG/Kcmil   max   12	Max number of wires	simultaneously connectable		Nr.	2
Plexible w/o lug conductor section	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  Power terminal protection according to IEC/EN 60529  Mechanical features  Operating position  Fixing  Fixing  Fixing		AWG/Kcmil			
Min min mm²			max		12
Fixing		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 vertical plan ±30°  Fixing  Fixing			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 2.5  Power terminal protection according to IEC/EN 60529  Power terminal protection according to IEC/EN 60529  Mechanical features  Operating position  normal allowable ±30°  Fixing  Screw / DIN rail 35mm			max	mm²	2.5
Flexible with insulated spade lug conductor section    min mm²   1.5 max mm²   2.5		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 vertical plan allowable ±30°  Fixing  Time min mm² 1.5  IP20 when properly wired  Vertical plan allowable ±30°  Screw / DIN rail 35mm			max	mm²	2.5
Power terminal protection according to IEC/EN 60529  Mechanical features Operating position  normal normal allowable  Fixing  max mm² 2.5  IP20 when properly wired  Vertical plan ±30°  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 ±30°  Fixing  Screw / DIN rail 35mm			min		
Mechanical features  Operating position  normal Vertical plan allowable ±30°  Fixing  Fixing			max	mm²	
Mechanical features  Operating position  normal Vertical plan allowable ±30°  Fixing  Screw / DIN rail 35mm	Power terminal protect				
Operating position  normal Vertical plan allowable ±30°  Fixing  Screw / DIN rail 35mm					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		
33011111	Fixing				
weight g 184					
	vveignt			g	104



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Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact charact	cteristics			
Thermal current Ith			Α	10
IEC/EN 60947-5-1 des	ignation			A600 - Q600
Operating current AC1	5			
		230V	Α	3
		400V	Α	1.9
		500V	Α	1.4
Operating current DC1	2			
		110V	Α	2.9
Operating current DC1	3			
		24V	Α	2.9
		48V	Α	1.4
		60V	Α	1.2
		110V	Α	0.6
		125V	Α	0.55
		220V	Α	0.3
		600V	Α	0.1
Operations				
Mechanical life			cycles	20000000
Safety related data				
Performance level B10	d according to EN/ISO 13489-1			
		mechanical load	cycles	20000000
Mirror contats according	g to IEC/EN 609474-4-1			YES
EMC composibility	_			
EMC compatibility				yes
AC coil operating				yes
	)Hz		V	yes 220
AC coil operating	)Hz		V	
AC coil operating Rated AC voltage at 60	0Hz of 60Hz coil powered at 60Hz		V	
AC coil operating Rated AC voltage at 60			V	
AC coil operating Rated AC voltage at 60	of 60Hz coil powered at 60Hz	min	V %Us	
AC coil operating Rated AC voltage at 60	of 60Hz coil powered at 60Hz	min max		220
AC coil operating Rated AC voltage at 60	of 60Hz coil powered at 60Hz		%Us	220 75
AC coil operating Rated AC voltage at 60	of 60Hz coil powered at 60Hz pick-up		%Us	220 75
AC coil operating Rated AC voltage at 60	of 60Hz coil powered at 60Hz pick-up	max	%Us %Us	75 115
AC coil operating Rated AC voltage at 60	of 60Hz coil powered at 60Hz pick-up drop-out	max min	%Us %Us %Us	75 115 20
AC coil operating Rated AC voltage at 60 AC operating voltage	of 60Hz coil powered at 60Hz pick-up drop-out	max min	%Us %Us %Us	75 115 20
AC coil operating Rated AC voltage at 60 AC operating voltage	of 60Hz coil powered at 60Hz pick-up drop-out	max min	%Us %Us %Us	75 115 20
AC coil operating Rated AC voltage at 60 AC operating voltage	of 60Hz coil powered at 60Hz pick-up drop-out	max min max	%Us %Us %Us %Us	75 115 20 55
AC coil operating Rated AC voltage at 60 AC operating voltage	of 60Hz coil powered at 60Hz pick-up drop-out	max min max in-rush	%Us %Us %Us %Us	75 115 20 55
AC coil operating Rated AC voltage at 60 AC operating voltage	of 60Hz coil powered at 60Hz pick-up  drop-out  mption at 20°C of 50/60Hz coil powered at 50Hz	max min max in-rush	%Us %Us %Us %Us	75 115 20 55
AC coil operating Rated AC voltage at 60 AC operating voltage	of 60Hz coil powered at 60Hz pick-up  drop-out  mption at 20°C of 50/60Hz coil powered at 50Hz	max min max in-rush holding	%Us %Us %Us %Us VA	75 115 20 55
AC coil operating Rated AC voltage at 60 AC operating voltage	of 60Hz coil powered at 60Hz pick-up  drop-out  mption at 20°C of 50/60Hz coil powered at 50Hz	max min max in-rush holding in-rush	%Us %Us %Us %Us VA	220 75 115 20 55 30 4
AC coil operating Rated AC voltage at 60 AC operating voltage	of 60Hz coil powered at 60Hz pick-up  drop-out  mption 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	220 75 115 20 55 30 4
AC coil operating Rated AC voltage at 60 AC operating voltage	of 60Hz coil powered at 60Hz pick-up  drop-out  mption 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	220  75 115 20 55 30 4 25 3
AC coil operating Rated AC voltage at 60 AC operating voltage	of 60Hz coil powered at 60Hz pick-up  drop-out  mption 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	220  75 115 20 55 30 4 25 3 30
AC coil operating Rated AC voltage at 60 AC operating voltage  AC average coil consu  Dissipation at holding solutions in the consultation of the	of 60Hz coil powered at 60Hz pick-up  drop-out  mption 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	220  75 115 20 55 30 4 25 3 30 4
AC coil operating Rated AC voltage at 60 AC operating voltage  AC average coil consu  Dissipation at holding	of 60Hz coil powered at 60Hz pick-up  drop-out  mption 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	220  75 115 20 55 30 4 25 3 30 4 0.95
AC coil operating Rated AC voltage at 60 AC operating voltage  AC average coil consu  Dissipation at holding some management of the consultation o	of 60Hz coil powered at 60Hz pick-up  drop-out  mption 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 VA	220  75 115 20 55 30 4 25 3 30 4 0.95
AC coil operating Rated AC voltage at 60 AC operating voltage  AC average coil consu  Dissipation at holding  Max cycles frequency Mechanical operation	of 60Hz coil powered at 60Hz pick-up  drop-out  mption 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 VA	220  75 115 20 55 30 4 25 3 30 4 0.95

in AC

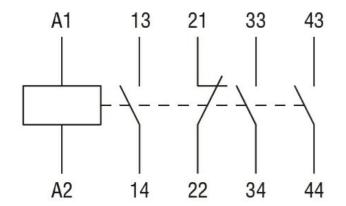


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		Clasing NO				
		Closing NO		min	ms	12
				max	ms	21
		Opening NC	)	max	1113	21
		oponing ite		min	ms	9
				max	ms	18
		Closing NC				
		J		min	ms	17
				max	ms	26
		Opening NC	;			
				min	ms	7
				max	ms	17
	in DC					
		Closing NO				
				min	ms	18
				max	ms	25
		Opening NC	)			
				min	ms	2
		Clasias NO		max	ms	3
		Closing NC		min	mo	2
				min	ms	3 5
		Opening NC	<b>.</b>	max	ms	5
		Opening Ne	,	min	ms	11
				max	ms	17
UL technical data						
General USE						
	Contactor					
			AC cu	urrent	Α	10
	ry contacts according to	UL				A600 - Q600
Ambient conditions						
Temperature						
	Operating temperature					
				min	°C	-50
				max	°C	+70
	Storage temperature				۰.	00
				min	°C	-60
Max altitude				max		+80
Resistance & Protection	n				m	3000
Pollution degree	11					3
Dimensions						
44 (0.17") (0.17") (0.17") (0.33") (0.33") (0.38")	34.9 (2.24") (2.24") (88.7.7) (3.24")		44 (1.73") ○ ○ ○ ○ ⊕ ⊕ ⊕ ⊕ ⊕ (1.37")	3.2 – (0.12")	(2.28)	RF9
			44		-	89.2 (3.51") 7.6 (0.30")
Wiring diagrams			44 —— 44 (1.73")			(3.51")
William diadrame						



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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