



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 Uirip         kV         6           Operational frequency         min         Hz         25           max         Hz         400         LEC Conventional free air thermal current lth         A         10           IEC Conventional free air thermal current lth         A         10         10           Protection fuse         gG (IEC)         A         16           Tightening torque for terminals         min         Nm         0.8           max         Nm         1         1           Tightening torque for coil terminal         min         Nm         0.8           max         Nm         1         1           Tightening torque for coil terminal         min         Nm         0.8           max         Nm         1         1           Tightening torque for coil terminal         min         Nm         0.8           max         Nm         1         1         1           Tightening torque for coil terminal         min         Nm         0.8         1 <t< td=""><td>Product type designat</td><td></td><td></td><td></td></t<>	Product type designat				
Rated insulation voltage Ui IEC/EN					
Rated insulation voltage Ui IEC/EN	Number of poles			Nr.	4
Rated impulse withstand voltage Uimp		ge Ui IEC/EN			690
Operational frequency         min max Hz may 1 may				kV	6
Min		•			
EC Conventional free air thermal current lth	, ,		min	Hz	25
Protection fuse   gG (IEC)					
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   Min	Tightening torque for t	erminals	<u> </u>		
Min   Bin   9   9			min	Nm	0.8
Tightening torque for coil terminal					
Tightening torque for coil terminal			min	lbin	9
Min   Nm   0.8   max   Nm   1   min   lbin   9   max   lbin   12   max   lbin   max   lbin   max   lbin   max   lbin   max   lbin   l			max	lbin	9
Min   Nm   0.8   max   Nm   1   min   lbin   9   max   lbin   12   max   lbin   max   lbin   max   lbin   max   lbin   max   lbin   l	Tightening torque for o	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         Mr.         2           Conductor section         AWG/Kcmil         max         12           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           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 ±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 2.5         0.75 max mm² 2.5           Flexible c/w lug conductor section         min mm² 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           Mechanical features         normal allowable signer         Vertical plan signer           Operating position         Screw / DIN rail 35mm			min	lbin	9
AWG/Kcmil			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 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		AWG/Kcmil			
Min min mm²			max		12
Flexible c/w 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  Power terminal protection according to IEC/EN 60529  Mechanical features  Operating position  Fixing  Screw / DIN rail 35mm		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 normal allowable ±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  Mechanical features  Operating position  Power terminal protection according to IEC/EN 60529  Mechanical features  Operating position  Fixing  Min mm² 1.5 max mm² 2.5  IP20 when properly wired  Normal allowable ±30°  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
Power terminal protection according to IEC/EN 60529  Mechanical features Operating position  normal allowable ±30°  Fixing  Time mm² 1.5  2.5  IP20 when properly wired  Vertical plan ±30°  Screw / DIN rail 35mm			max	mm²	2.5
Power terminal protection according to IEC/EN 60529  Mechanical features Operating position  normal allowable ±30°  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 allowable ±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				M. C. J.
Fixing Screw / DIN rail 35mm					
Fixing 35mm			allowable		
	Fixing				
vveignt g 176	Majaht				
	vveigni			g	170



**ENERGY AND AUTOMATION** 

Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact charac	teristics			
Thermal current Ith			Α	10
IEC/EN 60947-5-1 desi	gnation			A600 - Q600
Operating current AC15				
		230V	Α	3
		400V	Α	1.9
		500V	Α	1.4
Operating current DC12	2			
		110V	Α	2.9
Operating current DC13	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
-	<u> </u>			
EIVIC Compatibility				yes
EMC compatibility  AC coil operating				yes
AC coil operating	Hz		V	yes 48
AC coil operating Rated AC voltage at 60	Hz		V	
AC coil operating			V	
AC coil operating Rated AC voltage at 60	of 60Hz coil powered at 60Hz		V	
AC coil operating Rated AC voltage at 60		min	V %Us	
AC coil operating Rated AC voltage at 60	of 60Hz coil powered at 60Hz		%Us	48 75
AC coil operating Rated AC voltage at 60	of 60Hz coil powered at 60Hz pick-up	min max		48
AC coil operating Rated AC voltage at 60	of 60Hz coil powered at 60Hz		%Us %Us	48 75 115
AC coil operating Rated AC voltage at 60	of 60Hz coil powered at 60Hz pick-up	max	%Us	48 75
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	48 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	48 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	48 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	%Us %Us %Us %Us VA	48 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	max min max in-rush holding in-rush holding	%Us %Us %Us %Us VA VA	48  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	max min max  in-rush holding in-rush holding in-rush	%Us %Us %Us %Us VA VA VA	48  75 115 20 55  30 4  25 3 30
AC coil operating Rated AC voltage at 60 AC operating voltage  AC average coil consur	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	%Us %Us %Us %Us VA VA VA	48  75 115 20 55  30 4  25 3 30 4
AC coil operating Rated AC voltage at 60 AC operating voltage  AC average coil consur  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	48  75 115 20 55  30 4  25 3 30
AC coil operating Rated AC voltage at 60 AC operating voltage  AC average coil consur  Dissipation at holding ≤ Max cycles frequency	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	48  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 consur  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	48  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 consur  Dissipation at holding ≤ Max cycles frequency	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	48  75 115 20 55 30 4 25 3 30 4 0.95

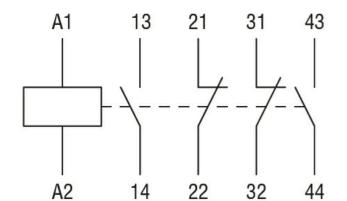
in AC



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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						





## 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