



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           IEC Conventional free air thermal current Ith         A         10           Protection fuse         gG (IEC)         A         25           Tightening torque for terminals         min         Nm         1.5           max         Nm         1.8         nmin         1.1           max         Nm         1.8         nmin         1.1           max         Nm         1.5         nm         1.5           Tightening torque for coil terminal         min         Nm         0.8         nm         1.1         nm         1.5         nm         1.5         nm         1.1         nm         1.5         nm         1.0         1.0	Product type designat	ion			
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 man before a features and the stream of th				kV	6
Min		•			
EC Conventional free air thermal current Ith	, ,		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	25
Min   Nm   1.5   Nm   1.8   min   Nm   1.5   Nm   1.8   min   Nm   Nm   1.5   Nm   Nm   Nm   Nm   Nm   Nm   Nm   N	Tightening torque for t	erminals	3 ( /		
Max   Nm   1.8   Nm   1.1   Nm   Nm   Nm   Nm   Nm   Nm   Nm   N	0 0 1		min	Nm	1.5
Tightening torque for coil terminal					
Tightening torque for coil terminal			min		
Min   Nm   0.8   max   Nm   1   min   lbin   0.8   max   lbin   0.74   max   lbin   lbin   lbin   lbin   lbin   0.74   max   lbin			max	lbin	1.5
Min   Nm   0.8   max   Nm   1   min   lbin   0.8   max   lbin   0.74   max   lbin   lbin   lbin   lbin   lbin   0.74   max   lbin	Tightening torque for o	coil terminal			
Max number of wires simultaneously connectable         min max         lbin look on 74           Conductor section         Nr. 2           AWG/Kcmil         max         10           Flexible w/o lug conductor section         min mm² mm² mm² flexible c/w lug conductor section         1           Flexible c/w lug conductor section         min mm² mm² flexible mm² flexible with insulated spade lug conductor section         min mm² mm² flexible mm² flexible mm² flexible with insulated spade lug conductor section         min mm² mm² flexible mm² flexibl			min	Nm	0.8
Max number of wires simultaneously connectable         max         lbin         0.74           Conductor section         AWG/Kcmil         max         10           Flexible w/o lug conductor section         min         mm²         1           Flexible c/w lug conductor section         min         mm²         6           Flexible c/w lug conductor section         min         mm²         1           Flexible with insulated spade lug conductor section         min         mm²         4           Flexible with insulated spade lug conductor section         min         mm²         1           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         10           Flexible w/o lug conductor section         min mm² mm² demax mm² d			min	Ibin	0.8
AWG/Kcmil			max	lbin	0.74
AWG/Kcmil   max   10	Max number of wires	simultaneously connectable		Nr.	2
Max	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 1 max mm² 4  Flexible with insulated spade lug conductor section  min mm² nm² 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 allowable ±30°  Fixing  Fixing		AWG/Kcmil			
Min max mm² 1 max mm² 6			max		10
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 max mm² 4  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 normal allowable ±30°  Fixing  Fixing			min	mm²	1
min mm² 1 max mm² 4			max	mm²	6
Flexible with insulated spade lug conductor section    min mm²   1 max mm²   4		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 allowable ±30°  Fixing  Fixing			min	mm²	1
Power terminal protection according to IEC/EN 60529  Mechanical features Operating position  normal allowable ±30°  Fixing    Min mm² d   Mechanical features   Mechanical featu			max	mm²	4
Power terminal protection according to IEC/EN 60529  Mechanical features Operating position  normal allowable ±30°  Fixing  Max mm² 4  IP20 when properly wired  Normal allowable ±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	mm²	1
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	tion according to IEC/EN 60529			
Operating position  normal Vertical plan allowable ±30°  Fixing  Screw / DIN rail 35mm	<u> </u>	gg			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 362					
	vveignt			g	302



ENERGY AND AUTOMATION

Conductor section					
	AWG/kcmil conductor	section	may		10
Auxiliary contact chara	cteristics		max		10
Thermal current Ith				Α	10
IEC/EN 60947-5-1 des	signation				A600 - P600
Operating current AC1					
			230V	Α	3
			400V	Α	1.9
			500V	Α	1.4
Operating current DC1	2				_
			110V	Α	5.7
Operating current DC1	3				
			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	20000000
Safety related data					
Performance level B10	Od according to EN/ISO	13489-1			
			mechanical load	cycles	20000000
Mirror contats according	ng to IEC/EN 609474-4-	1		-	YES
EMC compatibility					V00
					yes
AC coil operating					yes
	0Hz			V	48
AC coil operating	0Hz			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		at 60Hz pick-up		V	
AC coil operating Rated AC voltage at 60			min	V %Us	
AC coil operating Rated AC voltage at 60			min max		48
AC coil operating Rated AC voltage at 60				%Us	80
AC coil operating Rated AC voltage at 60		pick-up		%Us	80
AC coil operating Rated AC voltage at 60 AC operating voltage	of 60Hz coil powered	pick-up	max	%Us %Us	80 110
AC coil operating Rated AC voltage at 60	of 60Hz coil powered	pick-up	max min	%Us %Us %Us	80 110 20
AC coil operating Rated AC voltage at 60 AC operating voltage	of 60Hz coil powered	pick-up drop-out	max min	%Us %Us %Us	80 110 20
AC coil operating Rated AC voltage at 60 AC operating voltage	of 60Hz coil powered	pick-up drop-out	max min	%Us %Us %Us	80 110 20
AC coil operating Rated AC voltage at 60 AC operating voltage  AC average coil consu	of 60Hz coil powered and an arrangement of 60Hz coil powered and 6	pick-up drop-out	max min max	%Us %Us %Us %Us VA	48 80 110 20 55
AC coil operating Rated AC voltage at 60 AC operating voltage  AC average coil consul	of 60Hz coil powered and an arrangement of 60Hz coil powered and 6	pick-up drop-out	max min max in-rush	%Us %Us %Us %Us	48 80 110 20 55
AC coil operating Rated AC voltage at 60 AC operating voltage  AC average coil consu	of 60Hz coil powered and an arrangement of 60Hz coil powered and 6	pick-up drop-out	max min max in-rush	%Us %Us %Us %Us VA VA	48 80 110 20 55 75 9 2.5
AC coil operating Rated AC voltage at 60 AC operating voltage  AC average coil consul  Dissipation at holding: Max cycles frequency Mechanical operation	of 60Hz coil powered and an arrangement of 60Hz coil powered and 6	pick-up drop-out	max min max in-rush	%Us %Us %Us %Us VA	48 80 110 20 55 75 9 2.5
AC coil operating Rated AC voltage at 60 AC operating voltage  AC average coil consul  Dissipation at holding: Max cycles frequency Mechanical operation Operating times	of 60Hz coil powered and an arrangement of 60Hz coil powered and 20°C 50Hz	pick-up drop-out	max min max in-rush	%Us %Us %Us %Us VA VA	48 80 110 20 55 75 9 2.5
AC coil operating Rated AC voltage at 60 AC operating voltage  AC average coil consul  Dissipation at holding: Max cycles frequency Mechanical operation	of 60Hz coil powered and an arrangement of 60Hz coil powered and 20°C of 60Hz coil powered and 500Hz	pick-up drop-out	max min max in-rush	%Us %Us %Us %Us VA VA	48 80 110 20 55 75 9 2.5
AC coil operating Rated AC voltage at 60 AC operating voltage  AC average coil consul  Dissipation at holding: Max cycles frequency Mechanical operation Operating times	of 60Hz coil powered and an arrangement of 60Hz coil powered and 20°C 50Hz	pick-up drop-out at 60Hz	max min max in-rush	%Us %Us %Us %Us VA VA	48 80 110 20 55 75 9 2.5
AC coil operating Rated AC voltage at 60 AC operating voltage  AC average coil consul  Dissipation at holding: Max cycles frequency Mechanical operation Operating times	of 60Hz coil powered and an arrangement of 60Hz coil powered and 20°C of 60Hz coil powered and 500Hz	pick-up drop-out	max min max in-rush holding	%Us %Us %Us %Us VA VA VA	48 80 110 20 55 75 9 2.5 3600
AC coil operating Rated AC voltage at 60 AC operating voltage  AC average coil consul  Dissipation at holding: Max cycles frequency Mechanical operation Operating times	of 60Hz coil powered and an arrangement of 60Hz coil powered and 20°C of 60Hz coil powered and 500Hz	pick-up drop-out at 60Hz	max min max in-rush	%Us %Us %Us %Us VA VA W cycles/h	48 80 110 20 55 75 9 2.5 3600
AC coil operating Rated AC voltage at 60 AC operating voltage  AC average coil consul  Dissipation at holding: Max cycles frequency Mechanical operation Operating times	of 60Hz coil powered and an arrangement of 60Hz coil powered and 20°C of 60Hz coil powered and 500Hz	pick-up drop-out at 60Hz Closing NO	max min max in-rush holding	%Us %Us %Us %Us VA VA VA	48 80 110 20 55 75 9 2.5 3600
AC coil operating Rated AC voltage at 60 AC operating voltage  AC average coil consul  Dissipation at holding: Max cycles frequency Mechanical operation Operating times	of 60Hz coil powered and an arrangement of 60Hz coil powered and 20°C of 60Hz coil powered and 500Hz	pick-up drop-out at 60Hz	max min max in-rush holding min max	%Us %Us %Us %Us VA VA W cycles/h	80 110 20 55 75 9 2.5 3600
AC coil operating Rated AC voltage at 60 AC operating voltage  AC average coil consul  Dissipation at holding: Max cycles frequency Mechanical operation Operating times	of 60Hz coil powered and an arrangement of 60Hz coil powered and 20°C of 60Hz coil powered and 500Hz	pick-up drop-out at 60Hz Closing NO	max min max in-rush holding min max min	%Us %Us %Us %Us VA VA W cycles/h	48 80 110 20 55 75 9 2.5 3600
AC coil operating Rated AC voltage at 60 AC operating voltage  AC average coil consul  Dissipation at holding: Max cycles frequency Mechanical operation Operating times	of 60Hz coil powered and an arrangement of 60Hz coil powered and 20°C of 60Hz coil powered and 500Hz	pick-up drop-out at 60Hz Closing NO	max min max in-rush holding min max	%Us %Us %Us %Us VA VA W cycles/h	80 110 20 55 75 9 2.5 3600



C	losing	NC
_	1001119	

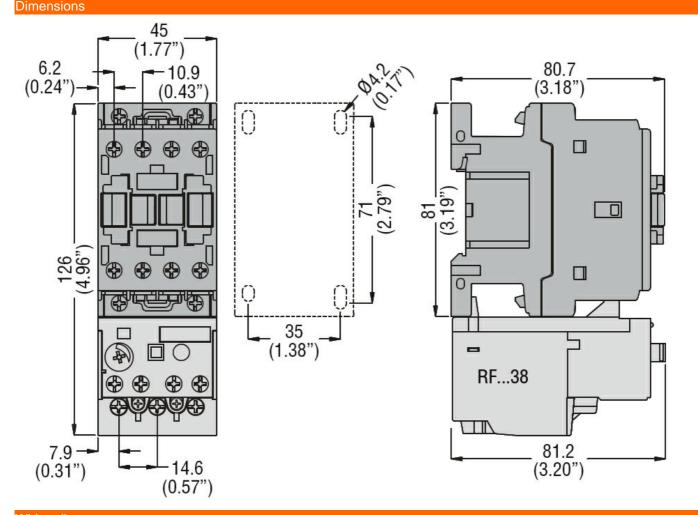
Closing NO			
	min	ms	14
	max	ms	28
Opening NC			
	min	ms	7
	max	ms	18

## UL technical data

General USE

Auxiliary contacts

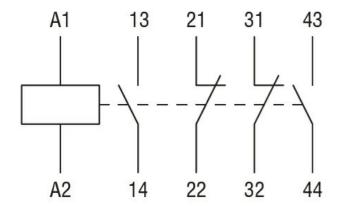
·	AC current	Α	10
Contact rating of auxiliary contacts according to UL			A600 - P600
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-50
	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3



## Wiring diagrams



**ENERGY AND AUTOMATION** 



## 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

BF0022A04860

EC000196 -Contactor relay