



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 25           Tightening torque for terminals         min Nm 1.5 max Nm 1.8 min lbin 1.1 max 10 min lbin 1.1 min lbin 1.1 min lbin 1.5           Tightening torque for coil terminal         min Nm 0.8 max Nm 1 min lbin 0.8 max lbin 1.5           Tightening torque for viers simultaneously connectable         Nr. 2           Conductor section         Nr. 2           AWG/Kcmil         max 10 max 10 mm² 1 mm² 1 max mm² 4           Flexible w/o lug conductor section         min mm² 1 mm² 1 max mm² 4           Flexible with insulated spade lug conductor section         min mm² 1 mm² 1 max mm² 4           Flexible with insulated spade lug conductor section         min mm² 1 mm² 1 max mm² 4           Power terminal protection according to IEC/EN 60529         IP20 when properly wired           Mechanical features         Operating position         Vertical plan ±35m	Product type designat	iion			
Rated insulation voltage Ui IEC/EN   V   690     Rated impulse withstand voltage Uimp   kV   6     Operational frequency   min   Hz   25     max   Hz   400     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     min   lbin   1.1     max   lbin   1.5     min   lbin   1.5     min   lbin   1.5     min   lbin   0.8     max   Nm   1     min   lbin   0.8     max   Nm   1     min   lbin   0.74     max   lbin   0.74     max   min   min   min   lbin   0.74     max   min   min   min   din   0.74     max   min   min   min   din   0.74     max   min   min   min   din   0.74     max   min   min   din   0.74     max   min   min   din   0.74     max   din   din					
Rated impulse withstand voltage Ulimp	Number of poles			Nr.	4
Min	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			gG (IEC)	Α	25
Max   Mm   1.8   min   lbin   1.1   max   lbin   1.1   max   lbin   1.5   max   lbin   0.8   max   lbin   0.8   max   lbin   0.8   max   lbin   0.74   max   lbin   lbin   0.8   lbin   lbin   0.74   max   lbin   lbin   lbin   0.74   lbin   lbin   lbin   lbin   0.74   lbin   lb	Tightening torque for t	terminals			
Tightening torque for coil terminal			min	Nm	1.5
Tightening torque for coil terminal			max	Nm	1.8
Tightening torque for coil terminal			min	lbin	1.1
Min   Nm   0.8   max   Nm   1   min   lbin   0.8   max   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	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         10           Flexible w/o lug conductor section         min         mm²         1           Flexible c/w lug conductor section         min         mm²         4           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           Operating position         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         10           Flexible w/o lug conductor section         min mm² mm² 1 mm² 6         1           Flexible c/w lug conductor section         min mm² mm² 1 mm² 4         1           Flexible with insulated spade lug conductor section         min mm² mm² 4         1           Power terminal protection according to IEC/EN 60529         IP20 when properly wired           Mechanical features         normal allowable         ±30°           Fixing         Screw / DIN rail 35mm			min	lbin	0.8
AWG/Kcmil   max   10			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 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 ±30°  Fixing  Fixing  Fixing		AWG/Kcmil			
min 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 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  Fixing  Fixing  Fixing		-	min	mm²	1
Power terminal protection according to IEC/EN 60529  Poperating position  Fixing  min mm² d  max mm² d  min mm² 1  max mm² 1  max mm² 4  IP20 when properly wired  Vertical plan allowable ±30°  Screw / DIN rail 35mm			max	mm²	6
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  max mm² 4  IP20 when properly wired  Vertical plan ±30°  Screw / DIN rail 35mm		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  Inormal allowable #30°  Fixing  Min mm² 1  IP20 when properly wired  IP20 when properly wired  Vertical plan #30°  Screw / DIN rail 35mm			max	mm²	4
Power terminal protection according to IEC/EN 60529  Mechanical features Operating position  Inormal allowable #30°  Fixing  Min mm² 1  IP20 when properly wired  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	mm²	1
Power terminal protection according to IEC/EN 60529  Mechanical features  Operating position  normal vertical plan allowable ±30°  Fixing  Screw / DIN rail 35mm			max	mm²	4
Mechanical features  Operating position  normal Vertical plan allowable ±30°  Fixing  Screw / DIN rail 35mm	Power terminal protection according to IEC/EN 60529				IP20 when
Operating position  normal Vertical plan allowable ±30°  Fixing  Screw / DIN rail 35mm		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 364					
	Weight			g	364



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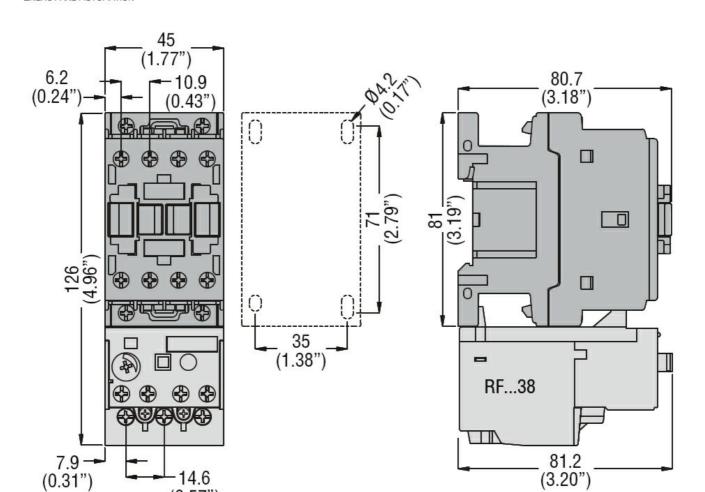
Conductor section				
	AWG/kcmil conductor section			4.0
Auxiliary contact chara	ctoristics	max		10
Thermal current Ith	CIETISHUS		Α	10
IEC/EN 60947-5-1 des	signation			A600 - P600
Operating current AC1				
		230V	Α	3
		400V	Α	1.9
		500V	Α	1.4
Operating current DC1	2			
		110V	Α	5.7
Operating current DC1	3	0.07		
		24V	A	5.7
		48V	A	2.9
		60V 110V	A	2.3 1.25
		110V 125V	A A	1.25 1.1
		220V	A	0.55
		600V	A	0.33
Operations		000 V		0.2
Mechanical life			cycles	20000000
Safety related data			Oyoloo	2000000
	Od according to EN/ISO 13489-1			
T offormation for or D is	ou doctraining to 214/100 To 100 T	mechanical load	cycles	20000000
Mirror contats accordi	ng to IEC/EN 609474-4-1	moonamoa road	0,0.00	YES
EMC compatibility	.9 .0 .20, 2.1 .000			yes
1				
AC coil operating				yee
AC coil operating Rated AC voltage at 5	0/60Hz		V	24
AC coil operating Rated AC voltage at 5 AC operating voltage	0/60Hz		V	
Rated AC voltage at 5			V	
Rated AC voltage at 5	0/60Hz of 50/60Hz coil powered at 50Hz pick-up		V	
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz	min	V %Us	
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz	min max		24
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz		%Us	80
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up		%Us %Us %Us	80 110 20
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out	max	%Us %Us	80 110
Rated AC voltage at 5	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
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out	max min max	%Us %Us %Us %Us	80 110 20 55
Rated AC voltage at 5	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
Rated AC voltage at 5	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
Rated AC voltage at 5	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
Rated AC voltage at 5	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	%Us %Us %Us %Us %Us	80 110 20 55 80 110 20
Rated AC voltage at 5 AC operating voltage	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
Rated AC voltage at 5	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	%Us %Us %Us %Us %Us	80 110 20 55 80 110 20
Rated AC voltage at 5 AC operating voltage	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	%Us %Us %Us %Us %Us %Us %Us	80 110 20 55 80 110 20 55
Rated AC voltage at 5 AC operating voltage	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 in-rush	%Us %Us %Us %Us %Us %Us %Us	24 80 110 20 55 80 110 20 55
Rated AC voltage at 5 AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out  drop-out	max min max min max min max	%Us %Us %Us %Us %Us %Us %Us	80 110 20 55 80 110 20 55
Rated AC voltage at 5 AC operating voltage	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  in-rush holding	%Us %Us %Us %Us %Us %Us %Us %Us	24 80 110 20 55 80 110 20 55 75 9
Rated AC voltage at 5 AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out  drop-out	max min max min max min max in-rush holding in-rush	%Us %Us %Us %Us %Us %Us %Us VA VA	24 80 110 20 55 80 110 20 55 75 9
Rated AC voltage at 5 AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out  drop-out	max min max min max  min max  in-rush holding	%Us %Us %Us %Us %Us %Us %Us %Us	24 80 110 20 55 80 110 20 55 75 9



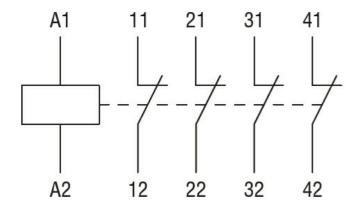
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	holding	VA	9
Dissipation at holding ≤20°C 50Hz		W	2.5
Max cycles frequency			
Mechanical operation	(	cycles/h	3600
Operating times			
Average time for Us control			
in AC			
Closing NO			
	min	ms	8
	max	ms	24
Opening NO			
	min	ms	10
	max	ms	20
Closing NC			
	min	ms	9
	max	ms	25
Opening NC			
	min	ms	9
	max	ms	15
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
Dimensions			





## Wiring diagrams



(0.57")

## 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

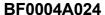
UL 60947-5-1

Certificates

CCC

cULus

EAC







ETIM classification

ETIM 8.0 EC000196 - Contactor relay