



Mechanical features				•
Product type designation	Product designation			Auxiliary
Number of poles	1 Toddot designation			
Number of poles				BF00
Rated insulation voltage Ui IEC/EN		S		
Rated impulse withstand voltage Uimp				
Min				690
Min Hz 25 400 Max Hz 400 Max Max Max Max Min Max Max Max Min Max Max Max Max Max Max Max Max Max Max Max Max Max Max Max Max Max Max Max Max Max Max Max Max Max Max Max Max Max Max Max Max Max Max Max Max Max Max Max Max Max Max Max Max Max Max Max Max Max Max Max Max Max Max Max	Rated impulse withsta	and voltage Uimp	kV	6
IEC Conventional free air thermal current lth	Operational frequency	/		
IEC Conventional free air thermal current lth		min	Hz	25
AC-1 (=55°C)		max	Hz	400
AC-1 (=55°C)	IEC Conventional free	air thermal current Ith	Α	10
Short-time allowable current for 10s (IEC/EN60947-1)	Operational current le			
Short-time allowable current for 10s (IEC/EN60947-1)	•	AC-1 (=55°C)	Α	0
Protection fuse gG (IEC)	Short-time allowable	,	Α	0
Tightening torque for terminals		,		
Tightening torque for terminals min		gG (IEC)	Α	25
Min Nm 1.5 max Nm 1.8 min lbin 1.1 max lbin 1.5	Tightening torque for			
Max Nm 1.8 min lbin 1.1 max lbin 1.5	rigittorining torquo for		Nm	1 5
Min				
Max Ibin 1.5				
Tightening torque for coil terminal				
min Nm 0.8 max Nm 1 min lbin 0.8 max lbin 0.74 Max number of wires simultaneously connectable Conductor section AWG/Kcmil max 10 Flexible w/o lug conductor section min mm² 1 max mm² 6 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 Vertical plan	Tightening torque for		10111	1.0
Max number of wires simultaneously connectable Max number of wires simultaneously connectable Nr. 2	riginterining torque for		Nlm	0.0
min lbin 0.8 max lbin 0.74 Max number of wires simultaneously connectable Nr. 2 Conductor section AWG/Kcmil max 10 Flexible w/o lug conductor section min mm² 1 max mm² 6 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 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 vertical plan				
Max number of wires simultaneously connectable Nr. 2				
Max number of wires simultaneously connectable Nr. 2 Conductor section max 10 Flexible w/o lug conductor section min mm² 1 max mm² 6 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 Power terminal protection according to IEC/EN 60529 IP20 when wire Mechanical features Operating position Vertical plan				
Conductor section AWG/Kcmil max	Max number of wires			
AWG/Kcmil max 10 Flexible w/o lug conductor section min mm² 1 max mm² 6 Flexible c/w lug conductor section min mm² 1 max mm² 4 Flexible with insulated spade lug conductor section min mm² 4 Flexible with insulated spade lug conductor section min mm² 4 Power terminal protection according to IEC/EN 60529 IP20 when wire Mechanical features Mechanical features Mechanical position Normal Vertical plan		simultaneously connectable	INF.	
Flexible w/o lug conductor section min mm² 1 max mm² 6 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 Vertical plan	Conductor section	ANA(O, #/		
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 IP20 when wire Mechanical features Operating position Normal Vertical plan				4.0
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 IP20 when wire Mechanical features Operating position Normal Vertical plan				10
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 IP20 when wire Mechanical features Operating position Normal Vertical plan		_		
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 IP20 when wire Mechanical features Operating position normal Vertical plan				
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 Power terminal protection according to IEC/EN 60529 IP20 when wired Mechanical features Operating position Normal Vertical plan			mm²	6
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 IP20 when wire Mechanical features Operating position normal Vertical plan		_	_	
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				
min mm² 1 max mm² 4 Power terminal protection according to IEC/EN 60529 Power terminal protection according to IEC/EN 60529 Mechanical features Operating position normal Vertical plan			mm ²	4
Power terminal protection according to IEC/EN 60529 IP20 when wire Mechanical features Operating position normal Vertical plan				
Power terminal protection according to IEC/EN 60529 Mechanical features Operating position normal Vertical plan		min		
Mechanical features Operating position normal Vertical plan			mm²	
Operating position normal Vertical plan		ction according to IEC/EN 60529		IP20 when wired
normal Vertical plan	Mechanical features			
·	Operating position			
allowable ±30°		normal		Vertical plan
		allowable		±30°



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Fixing				Screw / DIN rail 35mm
Weight			g	352
Conductor section				
AWG/k	cmil conductor section			
		max		10
Auxiliary contact characteristics				
Thermal current Ith			Α	10
IEC/EN 60947-5-1 designation				A600 - P600
Operating current AC15				
		230V	Α	3
		400V	Α	1.9
		500V	Α	1.4
Operating current DC12				
		110V	Α	5.7
Operating current DC13				
-		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 B10d accord	ding to EN/ISO 13489-1			
		mechanical load	cycles	20000000
Mirror contats according to IEC	/EN 609474-4-1			YES
FMC compatibility				
EMC compatibility				yes
AC coil operating				yes
AC coil operating			V	yes 120
AC coil operating Rated AC voltage at 60Hz			V	
AC coil operating Rated AC voltage at 60Hz AC operating voltage	z coil powered at 60Hz		V	
AC coil operating Rated AC voltage at 60Hz AC operating voltage	z coil powered at 60Hz pick-up		V	
AC coil operating Rated AC voltage at 60Hz AC operating voltage	z coil powered at 60Hz pick-up	min	V %Us	
AC coil operating Rated AC voltage at 60Hz AC operating voltage	•	min max		120
AC coil operating Rated AC voltage at 60Hz AC operating voltage	•		%Us	120 80
AC coil operating Rated AC voltage at 60Hz AC operating voltage	pick-up		%Us	120 80
AC coil operating Rated AC voltage at 60Hz AC operating voltage	pick-up	max	%Us %Us	120 80 110
AC coil operating Rated AC voltage at 60Hz AC operating voltage	pick-up drop-out	max min	%Us %Us %Us	120 80 110 20
AC coil operating Rated AC voltage at 60Hz AC operating voltage of 60Hz AC average coil consumption a	pick-up drop-out	max min	%Us %Us %Us	120 80 110 20
AC coil operating Rated AC voltage at 60Hz AC operating voltage of 60Hz AC average coil consumption a	pick-up drop-out	max min	%Us %Us %Us	120 80 110 20
AC coil operating Rated AC voltage at 60Hz AC operating voltage of 60Hz AC average coil consumption a of 60Hz	pick-up drop-out t 20°C z coil powered at 60Hz	max min max	%Us %Us %Us %Us	80 110 20 55
AC coil operating Rated AC voltage at 60Hz AC operating voltage of 60Hz AC average coil consumption a	pick-up drop-out t 20°C z coil powered at 60Hz	max min max in-rush	%Us %Us %Us %Us	120 80 110 20 55
AC coil operating Rated AC voltage at 60Hz AC operating voltage of 60Hz AC average coil consumption a of 60Hz	pick-up drop-out t 20°C z coil powered at 60Hz	max min max in-rush	%Us %Us %Us %Us VA	120 80 110 20 55 75 9
AC coil operating Rated AC voltage at 60Hz AC operating voltage of 60Hz AC average coil consumption a of 60Hz Dissipation at holding =20°C 50	pick-up drop-out t 20°C z coil powered at 60Hz	max min max in-rush	%Us %Us %Us %Us VA VA	120 80 110 20 55 75 9 2.5
AC coil operating Rated AC voltage at 60Hz AC operating voltage of 60Hz AC average coil consumption a of 60Hz Dissipation at holding =20°C 50 Max cycles frequency	pick-up drop-out t 20°C z coil powered at 60Hz	max min max in-rush	%Us %Us %Us %Us VA	120 80 110 20 55 75 9 2.5
AC coil operating Rated AC voltage at 60Hz AC operating voltage of 60Hz AC average coil consumption a of 60Hz Dissipation at holding =20°C 50 Max cycles frequency Mechanical operation Operating times	pick-up drop-out t 20°C z coil powered at 60Hz	max min max in-rush	%Us %Us %Us %Us VA VA	120 80 110 20 55 75 9 2.5
AC coil operating Rated AC voltage at 60Hz AC operating voltage of 60Hz AC average coil consumption a of 60Hz Dissipation at holding =20°C 50 Max cycles frequency Mechanical operation	pick-up drop-out t 20°C z coil powered at 60Hz	max min max in-rush	%Us %Us %Us %Us VA VA	120 80 110 20 55 75 9 2.5
AC coil operating Rated AC voltage at 60Hz AC operating voltage of 60Hz AC average coil consumption at of 60Hz Dissipation at holding =20°C 50 Max cycles frequency Mechanical operation Operating times Average time for Us control	drop-out at 20°C z coil powered at 60Hz	max min max in-rush	%Us %Us %Us %Us VA VA	120 80 110 20 55 75 9 2.5
AC coil operating Rated AC voltage at 60Hz AC operating voltage of 60Hz AC average coil consumption at of 60Hz Dissipation at holding =20°C 50 Max cycles frequency Mechanical operation Operating times Average time for Us control	pick-up drop-out t 20°C z coil powered at 60Hz	max min max in-rush	%Us %Us %Us %Us VA VA	120 80 110 20 55 75 9 2.5 3600
AC coil operating Rated AC voltage at 60Hz AC operating voltage of 60Hz AC average coil consumption at of 60Hz Dissipation at holding =20°C 50 Max cycles frequency Mechanical operation Operating times Average time for Us control	drop-out at 20°C z coil powered at 60Hz	max min max in-rush holding	%Us %Us %Us %Us VA VA W	120 80 110 20 55 75 9 2.5

18

ms

max



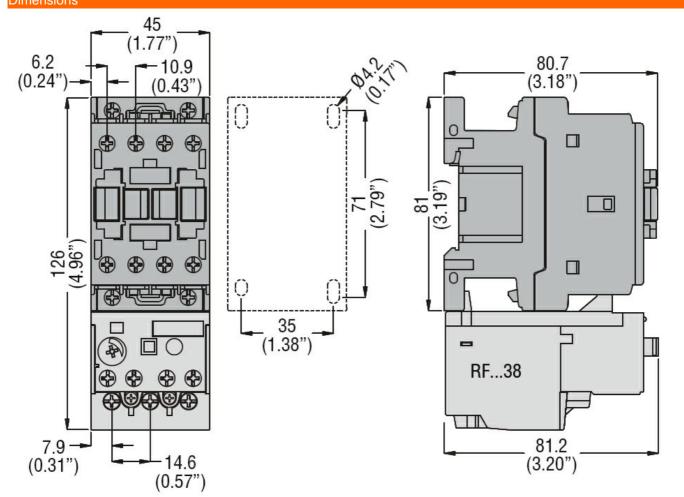
Opening NO			
	min	ms	10
	max	ms	20
Closing NC			
	min	ms	14
	max	ms	28
Opening NC			
	min	ms	7

UL technical data

General USE

Auxiliary contacts

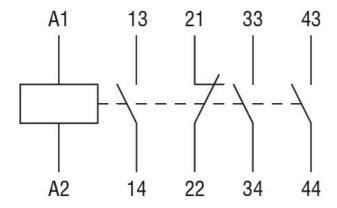
•	AC current	Α	10
Contact rating of auxiliary contacts according to UL			A600 - P600
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-50
	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3
Dimensions			





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Wiring diagrams



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