



Product designation				Auxiliary
C				contactor
Product type designat Contact characteristic				BF00
Number of poles	5		Nr.	4
Rated insulation voltage			V	690
Rated impulse withsta			kV	6
Operational frequency			κν	0
		min	Hz	25
		max	Hz	400
IEC Conventional free	air thermal current Ith	Пах	A	10
Protection fuse			~	10
11010010111030		gG (IEC)	А	25
Tightening torque for t	erminals	ge (i20)	7.	20
rightering terque for t		min	Nm	1.5
		max	Nm	1.8
		min	Ibin	1.1
		max	Ibin	1.5
Tightening torque for a	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	Ibin	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			
	J. J	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 protec	tion according to IEC/EN 60529			IP20 when
· .				properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
_				35mm
Weight			g	355



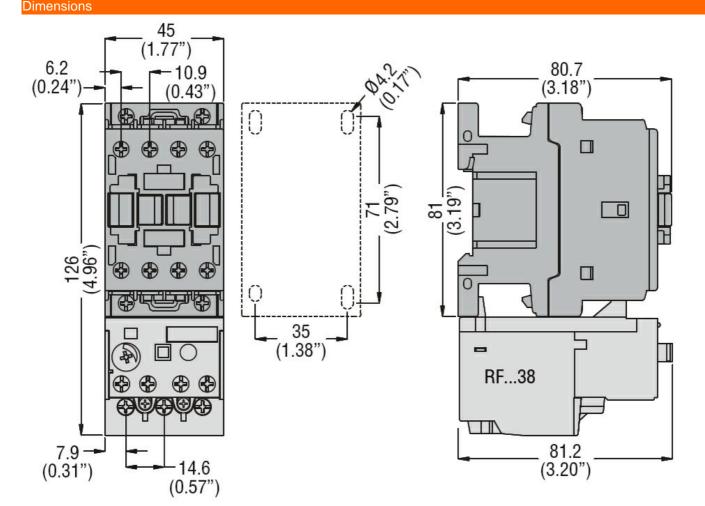
Conductor section

AWG/kcmil conductor section

Awailary contact characteristics A 10 Thermal current lth A 10 EC/EN codyrX-5-1 designation A600 - P600 Operating current AC15 230V A 3 4000 A 1.9 500V A 1.4 Operating current DC12 110V A 5.7 500V A 2.3 Operating current DC13 24V A 5.7 48V A 2.9 60V A 2.3 110V A 5.7 Operating current DC13 24V A 5.7 125V A 1.1 220V A 0.55 600V A 0.2 0000000 Mechanical life cycles 20000000 Safety related data 725 110 V 4.0.5 55 Performance level B10d according to EN/ISO 13489-1 west YES <			max		10
EC/EN 6047-5-1 designation A600 - P600 Operating current AC15 230V A 3 4000 A 1.9 500V A 1.4 Operating current DC12 110V A 5.7 Operating current DC13 24V A 5.7 May A 2.9 60V A 2.3 100V A 1.25 125V A 1.1 220V A 0.55 600V A 0.2 Mechanical Me cycles 20000000 Salety related data V 125 Performance level B100 according to ENISO 13489-1 mechanical load cycles 20000000 Mirror contats according to EC/EN 609474-4.1 YetS Yet	Auxiliary contact characteristic	S			
Operating current AC15 230V A 3 400V A 1.9 500V A 1.4 Operating current DC12 110V A 5.7 Operating current DC13 24V A 0.55 Operating current DC13 20000000 Sater 20000000 Sater Compatibility yes 20000000 20000000 EMC contage at 60	Thermal current Ith			А	10
280v A 3 400v A 1.9 500v A 1.4 Operating current DC12 110v A 5.7 Operating current DC13 24V A 5.7 48v A 2.9 60v A 2.3 110v A 1.2 125 126 126 12000000 126 110 11 120	IEC/EN 60947-5-1 designation	n			A600 - P600
400V A 1.9 S00V A 1.4 Operating current DC12 110V A 5.7 Operating current DC13 24V A 5.7 George 48V A 2.9 60V A 2.3 110V A 1.25 125V A 1.1 220V A 0.55 600V A 0.2 0000000 Mirror contats according to EN/ISO 13489-1 Mirror contats according to EN/ISO 13489-1 YES Performance level B10d according to EN/ISO 13489-1 YES YES 20000000 Mirror contats according to IEC/EN 609474-4-1 YES YES 20000000 AC coll operating Yes XAC coll operating Yes XAC coll operating Yes AC coll operating voltage of 60Hz coil powered at 60Hz V 120 XAC average coil consumption at 20°C Yes Xes AC average coil consumption at 20°C of 60Hz coil powered at 60Hz In-rush VA 75 Max cycoles frequency Xes X	Operating current AC15				
500v A 1.4 Operating current DC12 110v A 5.7 Operating current DC13 24v A 5.7 48v A 2.9 60v A 2.3 110v A 1.25 125v A 1.1 220v A 0.55 600v A 0.2 Operations 60v A 0.2 0.55 600v A 0.2 Mechanical life cycles 20000000 Salety related data vestownownownownownownownownownownownownowno			230V	А	3
Operating current DC12 110V A 5.7 Operating current DC13 24V A 5.7 48V A 5.7 48V A 2.3 110V A 1.25 125V A 1.1 220V A 0.55 600V A 0.2 Operations			400V	А	1.9
110V A 5.7 Operating current DC13 24V A 5.7 48V A 2.9 60V A 2.3 110V A 1.25 125V A 1.1 220V A 0.55 60VV A 0.2 Operations			500V	А	1.4
Operating current DC13 24V A 5.7 48V A 2.9 60V A 2.3 110V A 1.25 125V A 1.1 220V A 0.55 600V A 0.2 Operations	Operating current DC12				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			110V	А	5.7
$\begin{array}{c cccc} & 48V & A & 2.9 \\ 60V & A & 2.3 \\ 110V & A & 1.25 \\ 125V & A & 1.1 \\ 220V & A & 0.55 \\ 600V & A & 0.2 \\ \hline \end{array} \\ \hline \end{array}$	Operating current DC13				
$\begin{array}{c c c c c c c } & 60V & A & 2.3 \\ 110V & A & 1.25 \\ 125V & A & 0.55 \\ 600V & A & 0.55 \\ 600V & A & 0.52 \end{array}$				А	5.7
$\begin{array}{c ccccc} 110 \ & A & 1.25 \\ 125 \ & A & 1.1 \\ 220 \ & A & 0.55 \\ 600 \ & A & 0.2 \end{array}$				А	2.9
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				А	
$\begin{array}{c c c c c c } & 220V & A & 0.55 \\ \hline & 600V & A & 0.2 \\ \hline & & & & & & & & & & & & & & & & & &$				А	
$\begin{array}{c c c c c c c c } \hline 600V & A & 0.2 \\ \hline \hline \begin{tabular}{ c c c c c c c } \hline \hline \begin{tabular}{ c c c c c c c } \hline \hline \begin{tabular}{ c c c c c c c } \hline \hline \begin{tabular}{ c c c c c c c c c c c c c c c c c c c$				А	
Operations cycles 2000000 Safety related data - - Performance level B10d according to EN/ISO 13489-1 rechanical load cycles 2000000 Mirror contats according to IEC/EN 609474-4-1 YES - 2000000 Mirror contats according to IEC/EN 609474-4-1 YES yes - EMC compatibility yes - - - AC coll operating - - - - - AC coll operating voltage of 60Hz coil powered at 60Hz v 120 -					
Mechanical life cycles 2000000 Safety related data			600V	А	0.2
Safety related data mechanical load cycles 2000000 Mirror contats according to IEC/EN 609474-4-1 YES YES EMC compatibility yes AC coll operating YES Act coll operating v 120 AC coll operating Act coll operating voltage of 60Hz coil powered at 60Hz pick-up v 120 Act average coil consumption at 20°C of 60Hz coil powered at 60Hz min %Us 55 Act average coil consumption at 20°C of 60Hz coil powered at 60Hz in-rush VA 75 Dissipation at holding <20°C 50Hz					
Performance level B10d according to EN/ISO 13489-1 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 YES YES AC coll operating yes AC coll operating YES Rated AC voltage at 60Hz V 120 AC operating voltage V 120 AC operating voltage of 60Hz coil powered at 60Hz with state st				cycles	20000000
mechanical load cycles 2000000 Mirror contats according to IEC/EN 609474-4-1 YES EMC compatibility yes AC coil operating V 120 AC coil operating voltage V 120 AC operating voltage of 60Hz coil powered at 60Hz pick-up N 120 Max %Us 80 max %Us 110 drop-out min %Us 20 55 AC average coil consumption at 20°C of 60Hz coil powered at 60Hz in-rush VA 75 of 60Hz coil powered at 60Hz in-rush VA 75 Max cycles frequency W 2.5 Max cycles frequency Max cycles frequency W 2.5 Max cycles frequency Average time for Us control in AC Closing NO min ms 8 max max max max 24 0					
Mirror contats according to IEC/EN 609474-4-1 YES EMC compatibility yes AC coll operating v Rated AC voltage at 60Hz V AC operating voltage of 60Hz coil powered at 60Hz pick-up min min %Us 80 max max %Us 80 max max %Us 80 max max %Us 80 max Mcorp-out min Max %Us 55 AC average coil consumption at 20°C of 60Hz coil powered at 60Hz in-rush VA 75 holding VA 9 Dissipation at holding <20°C 50Hz	Performance level B10d acco	ording to EN/ISO 13489-1			
EMC compatibility yes AC coil operating V Rated AC voltage at 60Hz V AC operating voltage of 60Hz coil powered at 60Hz pick-up min min %Us 80 max %Us 110 drop-out min min %Us AC average coil consumption at 20°C of 60Hz coil powered at 60Hz of 60Hz coil powered at 60Hz in-rush VA 75 holding VA VA 9 Dissipation at holding ≤20°C 50Hz W Vectors W Max cycles frequency W Mechanical operation cycles/h Operating times Average time for Us control in AC Closing NO min ms Max 24 Opening NO min			mechanical load	cycles	
AC coil operating V 120 Rated AC voltage at 60Hz of 60Hz coil powered at 60Hz pick-up min %US 80 AC operating voltage min %US 80 max %US 110 drop-out min %US 20 max %US 55 AC average coil consumption at 20°C of 60Hz coil powered at 60Hz in-rush VA 75 AC average coil consumption at 20°C of 60Hz coil powered at 60Hz w 20 20 Dissipation at holding ≤20°C 50Hz W 2.5 25 Max cycles frequency W 2.5 3600 Operating times cycles/h 3600 20 Average time for Us control in AC xmax max 8 Max cycles frequency min ms 8 24 Opening NO min ms 24 24		C/EN 609474-4-1			
Rated AC voltage at 60HzV120AC operating voltageof 60Hz coil powered at 60Hz pick-upmin%Us80 maxmin%Us110drop-outmin%Us20 maxMax%Us55AC average coil consumption at 20°C of 60Hz coil powered at 60Hz					yes
AC operating voltage of 60Hz coil powered at 60Hz pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 55 AC average coil consumption at 20°C of 60Hz coil powered at 60Hz in-rush VA 75 holding VA 9 Dissipation at holding ≤20°C 50Hz W 2.5 Max cycles frequency Mechanical operation Closing NO min ms 8 max ms 24 Opening NO min ms 10	AC coll operating				
of 60Hz coil powered at 60Hz pick-up min max %Us 80 max %Us 110 drop-out min %Us 20 max %Us 55 AC average coil consumption at 20°C of 60Hz coil powered at 60Hz in-rush of 60Hz coil powered at 60Hz in-rush vA 75 holding VA 9 Dissipation at holding ≤20°C 50Hz W 2.5 Max cycles frequency W 2.5 Max cycles frequency Mechanical operation Closing NO min ms 8 max ms 24 Opening NO min ms 10					100
in AC average coil consumption at 20°C of 60Hz coil powered at 60Hz AC average coil consumption at 20°C of 60Hz coil powered at 60Hz AC average coil consumption at 20°C of 60Hz coil powered at 60Hz in rush holding ≤20°C 50Hz AC average frequency Mechanical operation Average time for Us control in AC Closing NO Min ms 8 max ms 24 Opening NO min ms 10	Rated AC voltage at 60Hz			V	120
$\begin{array}{c cccc} & & & & & & & & & & & & & & & & & $	Rated AC voltage at 60Hz AC operating voltage			V	120
drop-outmax%Us110min%Us20max%Us55AC average coil consumption at 20°C of 60Hz coil powered at 60Hzin-rush holdingVA75Max cycles frequencyVA9Dissipation at holding ≤20°C 50HzW2.5Max cycles frequencyVX9Operating timesV3600Average time for Us control in ACV3600Closing NOminms8 maxMaxACMax75 9MaxDissipation at holding ≤20°C 50HzV2.5MaxS3600VOperating timesV2.5Average time for Us control in ACS3600Opening NOMinms8 maxMax10Max10	Rated AC voltage at 60Hz AC operating voltage			V	120
drop-out min %Us 20 max %Us 55 AC average coil consumption at 20°C of 60Hz coil powered at 60Hz in-rush VA 75 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	Rated AC voltage at 60Hz AC operating voltage				
min%Us20 %UsAC average coil consumption at 20°C of 60Hz coil powered at 60Hzin-rushVA75 holdingin-rushVA75 holdingVA9Dissipation at holding ≤20°C 50HzW2.5Max cycles frequencyW2.5Mechanical operationcycles/h3600Operating timesAverage time for Us control in ACClosing NOminms8 maxmaxms24 maxOpening NOminms10	Rated AC voltage at 60Hz AC operating voltage			%Us	80
max%Us55AC average coil consumption at 20°C of 60Hz coil powered at 60Hzin-rush in-rushVA 9in-rush holdingVA 99Dissipation at holding ≤20°C 50HzW2.5Max cycles frequencyW2.5Mechanical operationcycles/h3600Operating timesSSAverage time for Us control in ACminms8 max msMaxOpening NOminms8 max maxMinms1010	Rated AC voltage at 60Hz AC operating voltage	pick-up		%Us	80
AC average coil consumption at 20°C of 60Hz coil powered at 60Hz in-rush VA 75 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	Rated AC voltage at 60Hz AC operating voltage	pick-up	max	%Us %Us	80 110
in-rush VA 75 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	Rated AC voltage at 60Hz AC operating voltage	pick-up	max min	%Us %Us %Us	80 110 20
in-rush VA 75 holding VA 9 Dissipation at holding ≤20°C 50Hz V 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	Rated AC voltage at 60Hz AC operating voltage of 60H	pick-up drop-out	max min	%Us %Us %Us	80 110 20
holdingVA9Dissipation at holding ≤20°C 50HzW2.5Max cycles frequencyMechanical operationcycles/h3600Operating timesAverage time for Us controlin ACClosing NOMaxms8Maxms24Opening NOMinms10	Rated AC voltage at 60Hz AC operating voltage of 60H	pick-up drop-out at 20°C	max min	%Us %Us %Us	80 110 20
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	Rated AC voltage at 60Hz AC operating voltage of 60H	pick-up drop-out at 20°C	max min max	%Us %Us %Us %Us	80 110 20 55
Max cycles frequency Solution Mechanical operation cycles/h 3600 Operating times Verage time for Us control Verage time for Us control Verage time for Us control In AC Closing NO Verage time for Us control Verage time for Us control In AC Closing NO Verage time for Us control Verage time for Us control In AC Closing NO Verage time for Us control Verage time for Us control In AC In AC Verage time for Us control Verage time for Us control In AC In AC Verage time for Us control Verage time for Us control In AC In AC Verage time for Us control Verage time for Us control In AC In AC Verage time for Us control Verage time for Us control In AC In AC Verage time for Us control Verage time for Us control In AC In AC Verage time for Us control Verage time for Us control In AC In AC Verage time for Us control Verage time for Us control In AC In AC Verage time for Us control Verage time for Us control In AC In AC Verage ti	Rated AC voltage at 60Hz AC operating voltage of 60H	pick-up drop-out at 20°C	max min max in-rush	%Us %Us %Us %Us VA	80 110 20 55 75
Mechanical operation cycles/h 3600 Operating times	Rated AC voltage at 60Hz AC operating voltage of 60H AC average coil consumption of 60H	pick-up drop-out at 20°C Hz coil powered at 60Hz	max min max in-rush	%Us %Us %Us %Us VA VA	80 110 20 55 75 9
Operating times Average time for Us control in AC Closing NO $\begin{array}{c} \min & ms & 8\\max & ms & 24\\\\Opening NO\\\\\hline min & ms & 10\end{array}$	Rated AC voltage at 60Hz AC operating voltage of 60H AC average coil consumption of 60H Dissipation at holding ≤20°C 5	pick-up drop-out at 20°C Hz coil powered at 60Hz	max min max in-rush	%Us %Us %Us %Us VA VA	80 110 20 55 75 9
Average time for Us control in AC Closing NO min ms 8 max ms 24 Opening NO min ms 10	Rated AC voltage at 60Hz AC operating voltage of 60H AC average coil consumption of 60H Dissipation at holding ≤20°C 5 Max cycles frequency	pick-up drop-out at 20°C Hz coil powered at 60Hz	max min max in-rush	%Us %Us %Us %Us VA VA VA W	80 110 20 55 75 9 2.5
in AC Closing NO min ms 8 max ms 24 Opening NO min ms 10	Rated AC voltage at 60Hz AC operating voltage of 60H AC average coil consumption of 60H Dissipation at holding ≤20°C 5 Max cycles frequency Mechanical operation	pick-up drop-out at 20°C Hz coil powered at 60Hz	max min max in-rush	%Us %Us %Us %Us VA VA VA W	80 110 20 55 75 9 2.5
Closing NO min ms 8 max ms 24 Opening NO min ms 10	Rated AC voltage at 60Hz AC operating voltage of 60H AC average coil consumption of 60H Dissipation at holding ≤20°C 5 Max cycles frequency Mechanical operation Operating times	pick-up drop-out at 20°C Hz coil powered at 60Hz	max min max in-rush	%Us %Us %Us %Us VA VA VA W	80 110 20 55 75 9 2.5
min ms 8 max ms 24 Opening NO min ms 10	Rated AC voltage at 60Hz AC operating voltage of 60H AC average coil consumption of 60H Dissipation at holding ≤20°C 5 Max cycles frequency Mechanical operation Operating times Average time for Us control	pick-up drop-out at 20°C Hz coil powered at 60Hz	max min max in-rush	%Us %Us %Us %Us VA VA VA W	80 110 20 55 75 9 2.5
max ms 24 Opening NO min ms 10	Rated AC voltage at 60Hz AC operating voltage of 60H AC average coil consumption of 60H Dissipation at holding ≤20°C 5 Max cycles frequency Mechanical operation Operating times Average time for Us control	pick-up drop-out at 20°C Hz coil powered at 60Hz 50Hz	max min max in-rush	%Us %Us %Us %Us VA VA VA W	80 110 20 55 75 9 2.5
Opening NO min ms 10	Rated AC voltage at 60Hz AC operating voltage of 60H AC average coil consumption of 60H Dissipation at holding ≤20°C 5 Max cycles frequency Mechanical operation Operating times Average time for Us control	pick-up drop-out at 20°C Hz coil powered at 60Hz 50Hz	max min max in-rush holding	%Us %Us %Us %Us VA VA VA VA vA	80 110 20 55 75 9 2.5 3600
min ms 10	Rated AC voltage at 60Hz AC operating voltage of 60H AC average coil consumption of 60H Dissipation at holding ≤20°C 5 Max cycles frequency Mechanical operation Operating times Average time for Us control	pick-up drop-out at 20°C Hz coil powered at 60Hz 50Hz	max min max in-rush holding min	%Us %Us %Us %Us VA VA VA VA vA w va ms	80 110 20 55 75 9 2.5 3600 8
max ms 20	Rated AC voltage at 60Hz AC operating voltage of 60H AC average coil consumption of 60H Dissipation at holding ≤20°C 5 Max cycles frequency Mechanical operation Operating times Average time for Us control	pick-up drop-out at 20°C Hz coil powered at 60Hz 50Hz Closing NO	max min max in-rush holding min	%Us %Us %Us %Us VA VA VA VA vA w va ms	80 110 20 55 75 9 2.5 3600 8
	Rated AC voltage at 60Hz AC operating voltage of 60H AC average coil consumption of 60H Dissipation at holding ≤20°C 5 Max cycles frequency Mechanical operation Operating times Average time for Us control	pick-up drop-out at 20°C Hz coil powered at 60Hz 50Hz Closing NO	max min max in-rush holding min max	%Us %Us %Us %Us VA VA VA vA w cycles/h	80 110 20 55 75 9 2.5 3600 8 24

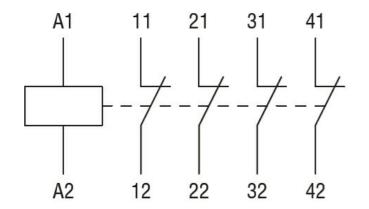


	Closing NC			
		min	ms	9
		max	ms	25
	Opening NC			
		min	ms	9
		max	ms	15
UL technical data				
General USE				
	Auxiliary contacts			
		AC current	А	10
Contact rating of aux	iliary contacts according to UL			A600 - P600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protec	tion			
Pollution degree				3
Discussion				



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 -
		Contenter velou