



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



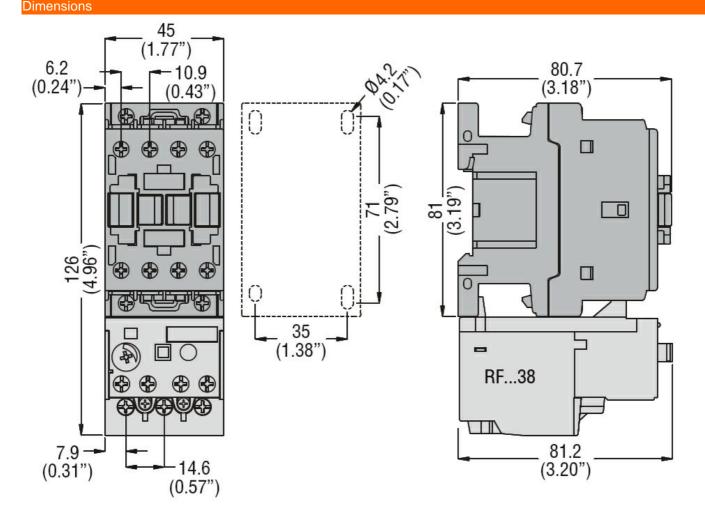
Conductor section

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

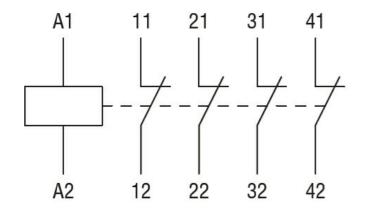


	Closing NC			
		min	ms	9
		max	ms	25
	Opening NC			
		min	ms	9
		max	ms	15
UL technical data				
General USE				
	Auxiliary contacts			
		AC current	А	10
Contact rating of aux	iliary contacts according to UL			A600 - P600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		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