



Auxiliary
contactor
BGF00

Product designation

Product type designation

Contact characteristics

Number of poles	Nr.	4
Rated insulation voltage U_i IEC/EN	V	690
Rated impulse withstand voltage U_{imp}	kV	6
Operational frequency		

min	Hz	25
max	Hz	400

IEC Conventional free air thermal current I_{th}	A	10
Short-time allowable current for 10s (IEC/EN60947-1)	A	0

Protection fuse	gG (IEC)	A	16
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Tightening torque for terminals	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	lbin	9

Tightening torque for coil terminal	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	lbin	9

Max number of wires simultaneously connectable	Nr.	2
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Conductor section	AWG/Kcmil		
	max		12
Flexible w/o lug conductor section	min	mm ²	0.75
	max	mm ²	2.5
Flexible c/w lug conductor section	min	mm ²	1.5
	max	mm ²	2.5
Flexible with insulated spade lug conductor section	min	mm ²	1.5
	max	mm ²	2.5

Power terminal protection according to IEC/EN 60529	IP20 when wired
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Mechanical features

Operating position	normal allowable	Vertical plan ±30°
Fixing		Screw / DIN rail 35mm
Weight	g	182

Conductor section

AWG/kcmil conductor section

max 12

Auxiliary contact characteristics

Thermal current I_{th} A 10

IEC/EN 60947-5-1 designation A600 - Q600

Operating current AC15

230V A 3
400V A 1.9
500V A 1.4

Operating current DC12

110V A 2.9

Operating current DC13

24V A 2.9
48V A 1.4
60V A 1.1
125V A 0.3
220V A 0.1
600V A 0.6

Operations

Mechanical life cycles 20000000

Safety related data

Performance level B10d according to EN/ISO 13489-1

mechanical load cycles 20000000

Mirror contacts according to IEC/EN 60947-4-1 YES

EMC compatibility yes

AC coil operating

Rated AC voltage at 50/60Hz V 230

AC operating voltage

of 50/60Hz coil powered at 50Hz
pick-up

min %U_s 75
max %U_s 115

drop-out

min %U_s 20
max %U_s 55

of 50/60Hz coil powered at 60Hz
pick-up

min %U_s 80
max %U_s 115

drop-out

min %U_s 20
max %U_s 55

AC average coil consumption at 20°C

of 50/60Hz coil powered at 50Hz

in-rush VA 30
holding VA 4

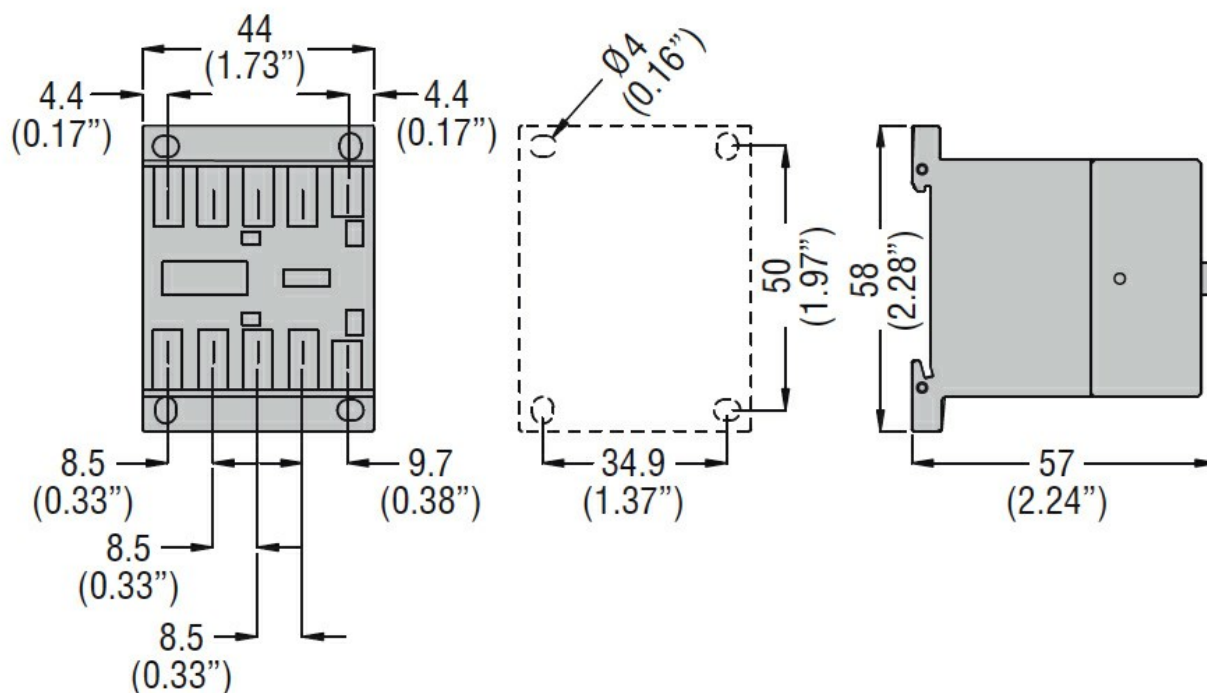
of 50/60Hz coil powered at 60Hz

in-rush VA 25
holding VA 3

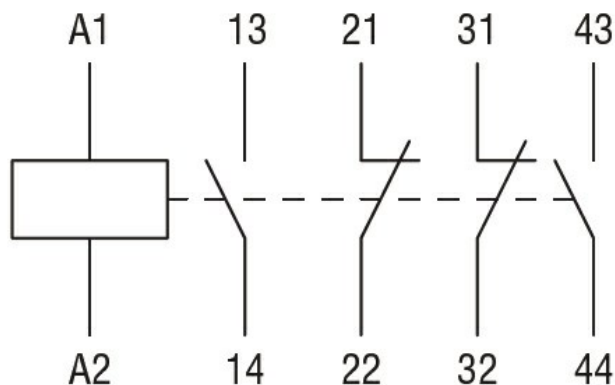
of 60Hz coil powered at 60Hz

in-rush VA 30
holding VA 4

Dissipation at holding ≤20°C 50Hz			W	0.95
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us control				
in AC				
Closing NO			min	ms 12
			max	ms 21
Opening NO			min	ms 9
			max	ms 18
Closing NC			min	ms 17
			max	ms 26
Opening NC			min	ms 7
			max	ms 17
in DC				
Closing NO			min	ms 18
			max	ms 25
Opening NO			min	ms 2
			max	ms 3
Closing NC			min	ms 3
			max	ms 5
Opening NC			min	ms 11
			max	ms 17
UL technical data				
Contact rating of auxiliary contacts according to UL			A600 - Q600	
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



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