11BG0031A110

CONTROL RELAY WITH CONTROL CIRCUIT: AC AND DC, BG00 TYPE, AC COIL 50/60HZ, 110VAC, 3NO AND 1NC

Product designation			Auxiliary contactor
Product type designation			BG00
Contact characteristics			
Number of poles		nr.	4
Rated insulation voltage Ui		V	690
Rated impulse withstand voltage Uimp		kV	6
Operating frequency			
	Operational frequency min	Hz	25
	Operational frequency max	Hz	400
Conventional free air thermal current Ith		A	10
Protection fuse			
	gG (IEC)	A	16
Tightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	lbft	0.59
	max	lbft	0.74
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbft	0.8
	max	lbft	0.74
max number of wires simultaneously connectable		nr.	2
Conductor section			
AWG			
	min		18
	max		12
Flexible w/o lug conductor section			
	min	mm²	0.75
	max	mm²	2.5
Flexible c/w lug conductor section			
	min	mm²	1.5
	max	mm²	2.5
Flexible with insulated spade lug conductor section			
	min	mm²	1.5
	max	mm²	2.5
Power terminal protection according to IEC/EN 60529			IP20 when wired
Auxiliary contact characteristics			
Type of contact			3 NO + 1 NC
Thermal current Ith		A	10
IEC/EN 60947-5-1 designation			A600 - Q600
Operating current AC15			
	230V	A	3
	400V	A	1.9

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			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
			110V	A	Screw / DIN rail 35mm
			125V	A	0.3
			220V	A	0.1
			600V	A	0.6
Ambient conditions					
Temperature					
	Operating temperature				
			min	°C	-40
			max	°C	60
	Storage temperature				
			min	°C	-55
			max	°C	70
Max altitude				m	3000
Operating position					
			normal		Vertical plan
			allowable		±30°
Mounting					Screw / DIN rail 35mm
Weight				g	0.179
Operations					
Mechanical life				Cycles	20000000
Safety related data					
Performance level B10d according to EN/ISO 13489-1					
			mechanical load	Cicli	20000000
EMC compatibility					yes
AC coil operating					
AC operating voltage					
	of 50/60Hz coil powered at 50Hz				
		pick-up			
			min	%Us	0.75
			max	%Us	1.15
		drop-out			
			min	%Us	0.2
			max	%Us	0.55
	of 50/60Hz coil powered at 60Hz				
		pick-up			
			min	%Us	0.8
			max	%Us	1.15
		drop-out			
			min	%Us	0.2
			max	%Us	0.55
	of 60Hz coil powered at 60Hz				
		pick-up			
			min	%Us	0.75
			max	%Us	1.15
		drop-out			

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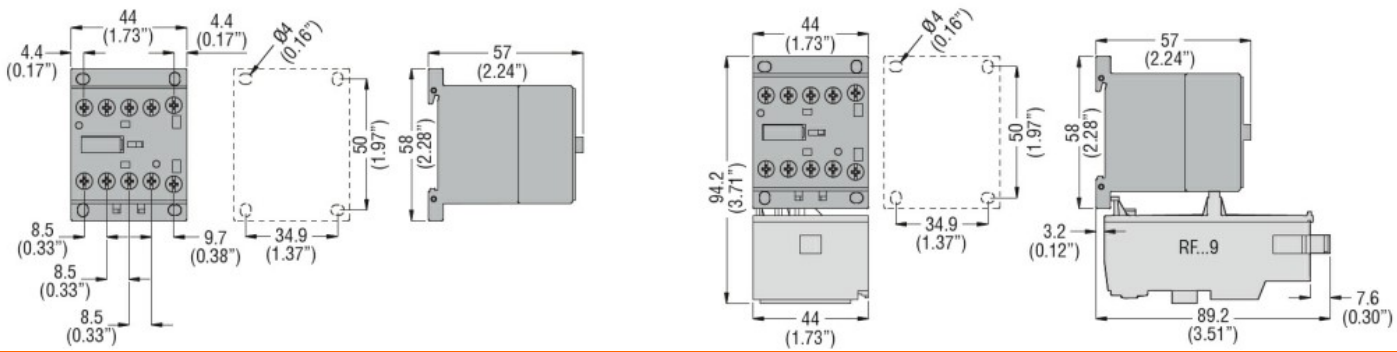
		min	%Us	0.2
		max	%Us	0.55
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	30
		holding	VA	4
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	25
		holding	VA	3
	of 60Hz coil powered at 60Hz			
		in-rush	VA	30
		holding	VA	4
Dissipation at holding ≤20°C 50Hz			W	0.95
DC coil operating				
DC operating voltage				
Average coil consuption ≤20°C				
		in-rush	W	3.2
		holding	W	3.2
Max cycles frequency				
Mechanical operations			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
UL technical data				
Contact rating of auxiliary contacts according to UL				A600 - Q600
Other features				
Pollution degree				3

Dimensions



Wiring diagrams

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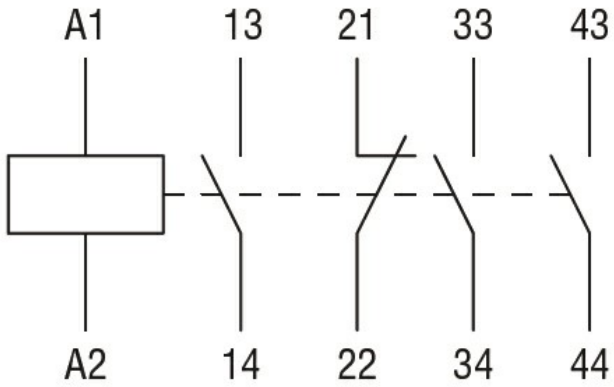

Certifications and compliance

Certifications

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

Compliance

CCC
cULus
EAC

ETIM 6 classification

EC000066 - Power contactor, AC switching

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