11BG0022D024

CONTROL RELAY WITH CONTROL CIRCUIT: AC AND DC, BG00 TYPE, DC COIL, 24VDC, 2NO AND 2NC



Product designation				Auxiliary contactor
Product type designation				BG00
Contact characteristics				
Number of poles			nr.	4
Rated insulation voltage Ui			V	690
Operating frequency				
	Operational frequency min		Hz	25
	Operational frequency max		Hz	400
Conventional free air thermal current Ith			A	10
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	0.59
		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
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-40
		max	°C	60
	Storage temperature			
		min	°C	-55
		max	°C	70
Max altitude			m	3,000
Operating position				

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		normal allowable		Vertical plan ±30°
Mounting				Screw / DIN rail 35mm
Weight			g	0.175
Operations				
Mechanical life			Cycles	20,000,000
Safety related data				
Mirror contats according to IEC/EN 609474-4-1				Yes
EMC compatibility				Yes
AC coil operating				
Rated AC voltage at 50/60Hz, 60Hz				
		min	V	12
		max	V	575
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	75
		max	%Us	115
	drop-out			
		min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
		max	%Us	115
	drop-out			
		min	%Us	20
		max	%Us	55
	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	75
		max	%Us	115
	drop-out			
		min	%Us	20
		max	%Us	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 rated control voltage				
		min	V	6
		max	V	250
DC operating voltage				
	pick-up			
		min	%Us	75

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		max	%Us	115
drop-out				
		min	%Us	10
		max	%Us	20
Average coil consuption ≤20°C				
		in-rush	W	3.2
		holding	W	3.2

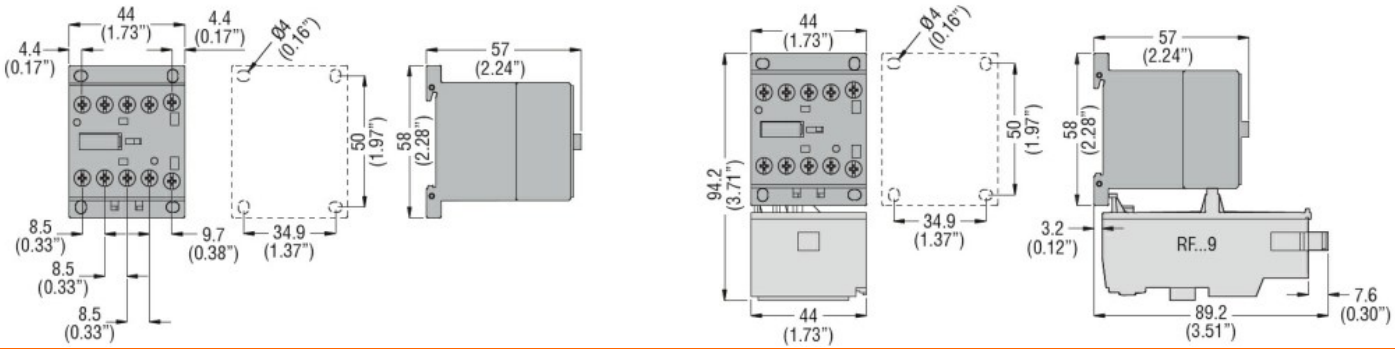
Max cycles frequency

Mechanical operations		Cycles/h	3,600

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

Dimensions

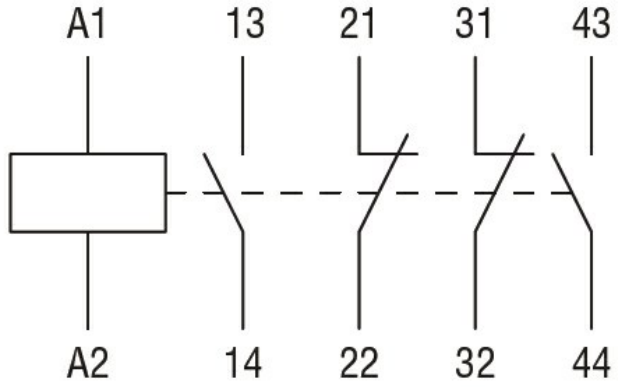


Wiring diagrams

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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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