



Product designation

Product type designation

Auxiliary
contactor
BG00

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
---	----

Protection fuse

gG (IEC)	A	16
----------	---	----

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
-----	---

Conductor section

AWG/Kcmil

max	12
-----	----

Flexible w/o lug conductor section

min	mm ²	0.8
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

Mechanical features

Operating position

normal allowable	Vertical plan ±30°
---------------------	-----------------------

Fixing

Screw / DIN rail
35mm

Weight

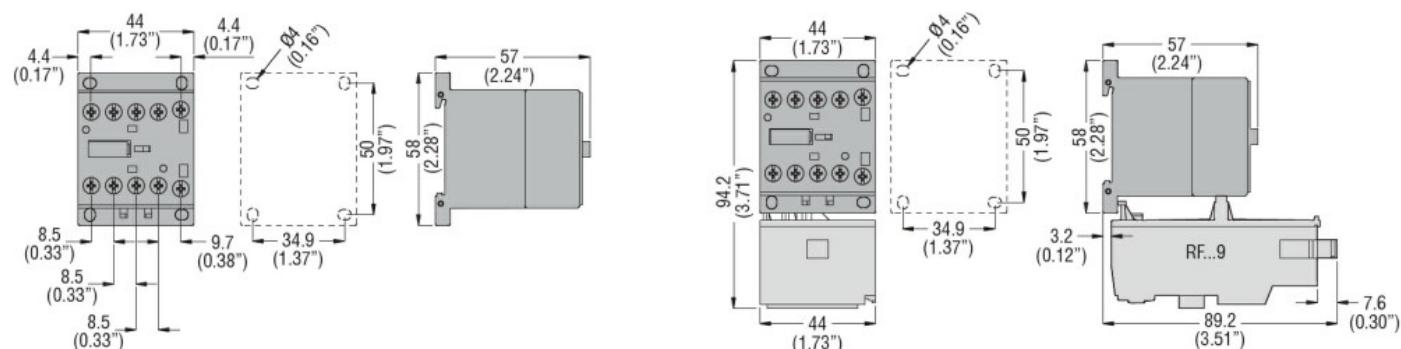
g	200
---	-----

Conductor section

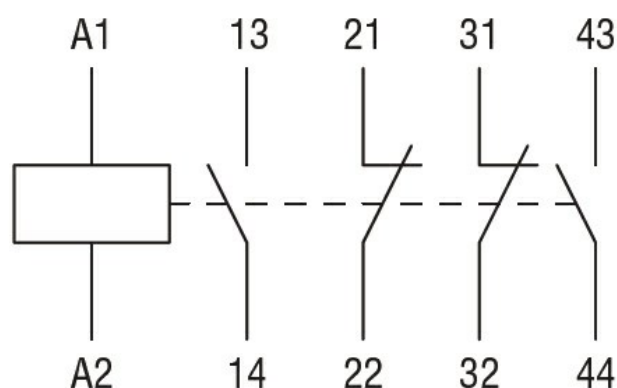
AWG/kcmil conductor section

		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 1.2
		110V	A 0.6
		125V	A 0.55
		220V	A 0.3
		600V	A 0.1
Operations			
Mechanical life		cycles	20000000
Safety related data			
Performance level B10d according to EN/ISO 13489-1		mechanical load	cycles 20000000
Mirror contats according to IEC/EN 609474-4-1		YES	
EMC compatibility		YES	
AC coil operating			
Rated AC voltage at 50/60Hz		V	48
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
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	0.9
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

cULus

EAC

ETIM classification

ETIM 8.0

EC000196 -
Contactor relay