



Auxiliary
contactor
BG09

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	20
Operational current I_e	AC-1 (=40°C)	A 20
	AC-1 (=55°C)	A 18
	AC-1 (=70°C)	A 15
	AC-3 (=440V =55°C)	A 9
	AC-4 (400V)	A 4
Rated operational power AC-1 (T=40°C)	230V	kW 8
	400V	kW 14
	500V	kW 16
	690V	kW 22
Short-time allowable current for 10s (IEC/EN60947-1)	A	96
Protection fuse	gG (IEC)	A 20
	aM (IEC)	A 10
Making capacity (RMS value)	A	92
Breaking capacity at voltage	440V	A 72
	500V	A 72
	690V	A 72
Resistance per pole (average value)	mΩ	10
Power dissipation per pole (average value)	I_{th}	W 4
	AC3	W 0.8
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				Q600
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
Electrical life			cycles	500000
Safety related data				
Performance level B10d according to EN/ISO 13489-1				
		rated load	cycles	500000
		mechanical load	cycles	20000000
Mirror contats according to IEC/EN 609474-4-1				YES
EMC compatibility				YES
DC coil operating				
DC rated control voltage			V	24
DC operating voltage				
pick-up				
		min	%Us	75
		max	%Us	115
drop-out				
		min	%Us	10

		max	%Us	25
Average coil consumption =20°C				
		in-rush	W	3.2
		holding	W	3.2
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				
Full-load current (FLA) for three-phase AC motor				
		at 480V	A	7.6
		at 600V	A	6.1
Yielded mechanical performance				
for single-phase AC motor		110/120V	HP	0.5
		230V	HP	1.5
for three-phase AC motor		200/208V	HP	2
		220/230V	HP	3
		460/480V	HP	5
		575/600V	HP	5
General USE				
Contactor		AC current	A	20
Ambient conditions				
Temperature				
Operating temperature		min	°C	-50

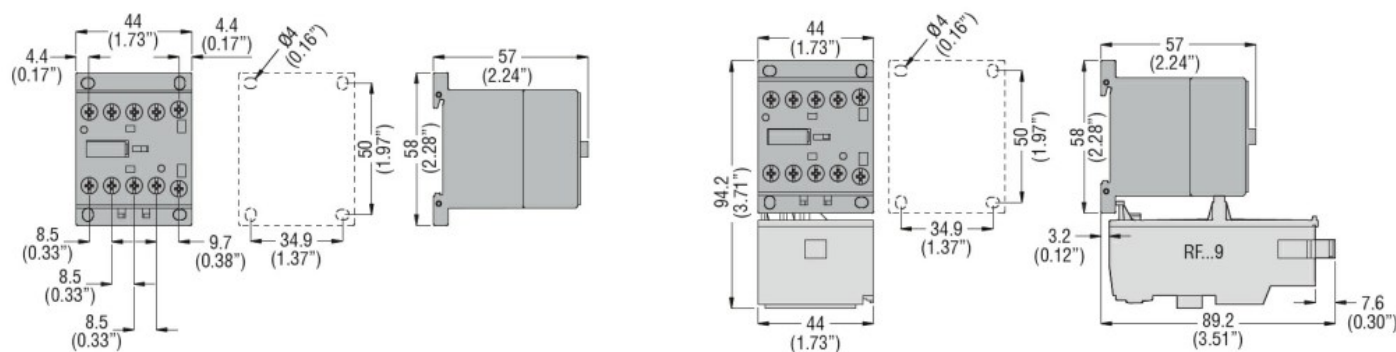
	max	°C	+70
Storage temperature	min	°C	-60
	max	°C	+80
Max altitude	m		3000

Resistance & Protection

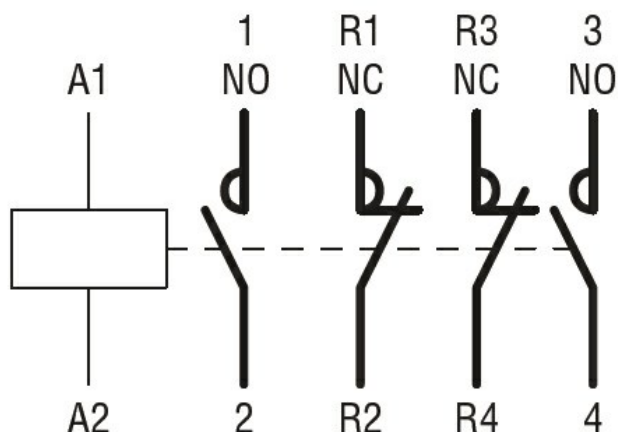
Pollution degree

3

Dimensions



Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1
CSA C22.2 n° 60947-4-1
IEC/EN 60947-1
IEC/EN 60947-4-1
UL 60947-1
UL 60947-4-1

Certificates

CCC
cULus
EAC

ETIM classification

ETIM 8.0

EC000066 -
Power contactor,
AC switching