



Product designation

Power contactor

Product type designation

BG09

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 max	Hz Hz 25 400
Operational current I_e	AC-1 ($\leq 40^\circ\text{C}$) AC-1 ($\leq 55^\circ\text{C}$) AC-1 ($\leq 70^\circ\text{C}$) AC-3 ($\leq 440\text{V} \leq 55^\circ\text{C}$) AC-4 (400V)	A A A A A 20 18 15 9 4
Rated operational power AC-1 ($T \leq 40^\circ\text{C}$)	230V 400V 500V 690V	kW kW kW kW 8 14 16 22
Short-time allowable current for 10s (IEC/EN60947-1)	A	96
Protection fuse	gG (IEC) aM (IEC)	A A 20 10
Making capacity (RMS value)	A	92
Breaking capacity at voltage	440V 500V 690V	A A A 72 72 72
Resistance per pole (average value)	m Ω	10
Power dissipation per pole (average value)	I_{th} AC-3	W W 4 0.81
Tightening torque for terminals	min max min max	Nm Nm lbin lbin 0.8 1 9 9
Tightening torque for coil terminal	min max min max	Nm Nm lbin lbin 0.8 1 9 9
Max number of wires simultaneously connectable	Nr.	2
Conductor section		

AWG/Kcmil

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 properly wired

Mechanical features

Operating position

 normal allowable Vertical plan
±30°

Fixing

 Screw / DIN rail
35mm

Weight

g 221

Auxiliary contact characteristics

 Thermal current I_{th}

A 10

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

EMC compatibility

yes

DC coil operating

DC rated control voltage

V 12

DC operating voltage

pick-up

 min %U_s 75
max %U_s 115

drop-out

 min %U_s 10
max %U_s 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 U_s control

in AC

Closing NO

 min ms 12
max ms 21

Opening NO

 min ms 9
max ms 18

Closing NC

in DC	Opening NC	min	ms	17
		max	ms	26
		min	ms	7
		max	ms	17
	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

Rated operational voltage AC (UL) V 600

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
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Ambient conditions

Temperature

Operating temperature

min	°C	-50
max	°C	+70

Storage temperature

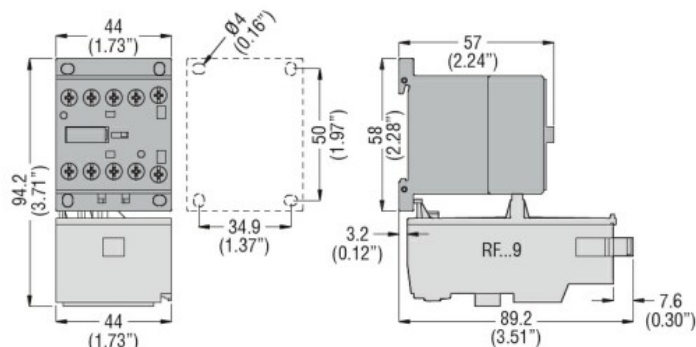
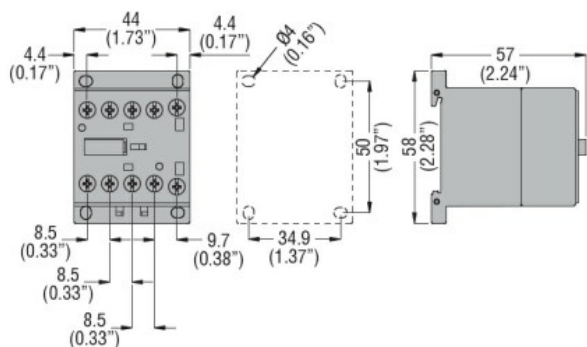
min	°C	-60
max	°C	+80

Max altitude m 3000

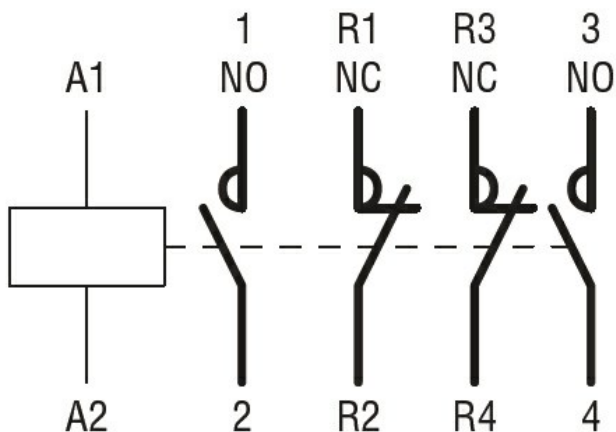
Resistance & Protection

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