



Product designation
Product type designation

Power contactor
BGP09

Contact characteristics

Number of poles	Nr.	4
Rated insulation voltage U_i IEC/EN	V	500
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 ($\leq 40^\circ\text{C}$)	A 20
	AC-1 ($\leq 55^\circ\text{C}$)	A 18
	AC-1 ($\leq 70^\circ\text{C}$)	A 15
	AC-3 ($\leq 440\text{V } \leq 55^\circ\text{C}$)	A 9
	AC-4 (400V)	A 4
Rated operational power AC-1 ($T \leq 40^\circ\text{C}$)		
	230V	kW 8
	400V	kW 14
	500V	kW 16
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
Resistance per pole (average value)	m Ω	10
Power dissipation per pole (average value)		
	I_{th}	W 4
	AC-3	W 0.81
Tightening torque for terminals		
	min	Nm 0.8
	max	Nm 1
	min	Ibin 9
	max	Ibin 9
Tightening torque for coil terminal		
	min	Nm 0.8
	max	Nm 1
	min	Ibin 9
	max	Ibin 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			IP00
Mechanical features			
Operating position		normal allowable	Vertical plan ±30°
Fixing			Screw / DIN rail 35mm
Weight		g	242
Auxiliary contact characteristics			
Thermal current I _{th}		A	10
IEC/EN 60947-5-1 designation			Q600
Operations			
Mechanical life		cycles	20000000
Electrical life		cycles	500000
Safety related data			
Performance level B10d according to EN/ISO 13489-1		rated load mechanical load	cycles 500000 cycles 20000000
EMC compatibility			yes
DC coil operating			
DC rated control voltage		V	48
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 holding	W 3.2 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		min	ms 17

in DC	Opening NC	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

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

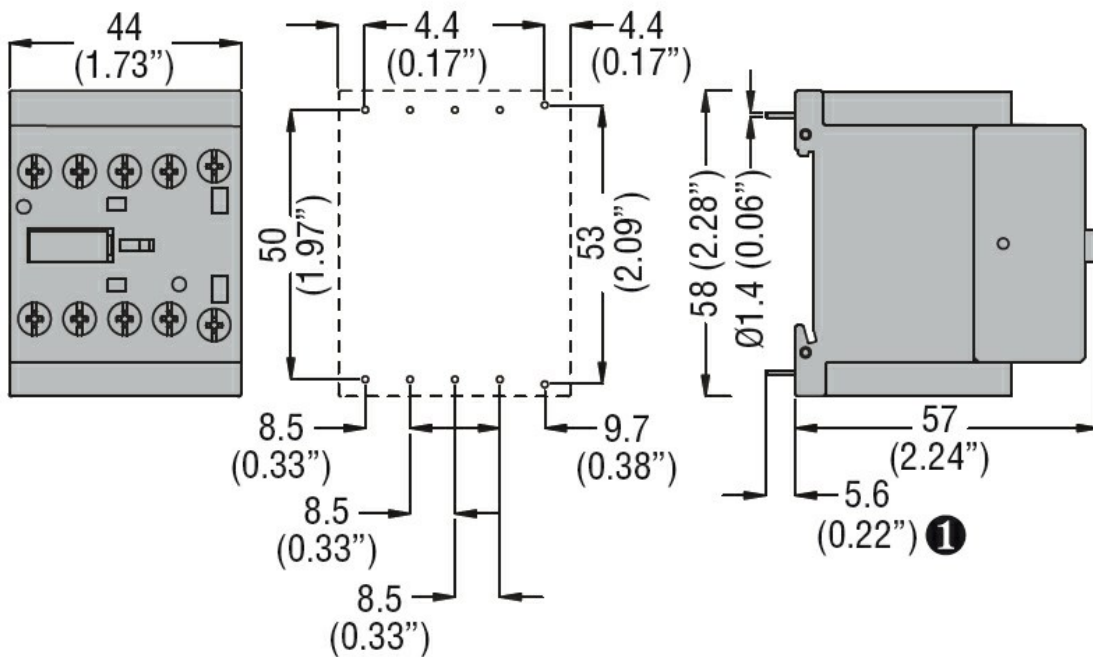
m	3000
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Resistance & Protection

Pollution degree

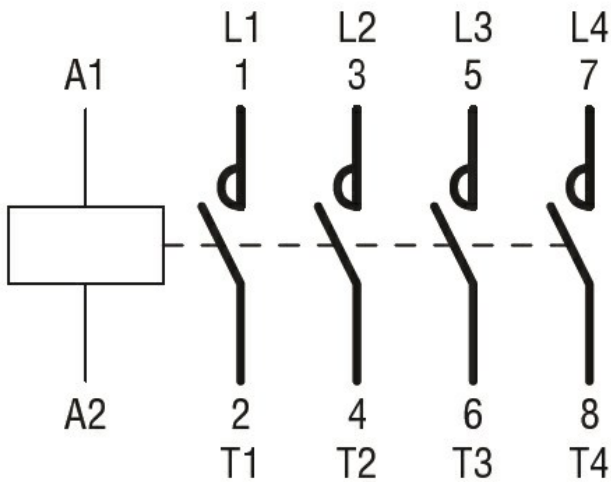
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Dimensions



① Recommended PCB drillings 1.7-2mm.

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

cURus
EAC

ETIM classification

ETIM 8.0

EC000066 -
Power contactor,
AC switching