



Product designation	Power contactor		
Product type designation	BGP09		
<b>Contact characteristics</b>			
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 $\Omega$	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 <sup>2</sup>	0.8
		max	mm <sup>2</sup>	2.5
Flexible c/w lug conductor section		min	mm <sup>2</sup>	1.5
		max	mm <sup>2</sup>	2.5
Flexible with insulated spade lug conductor section		min	mm <sup>2</sup>	1.5
		max	mm <sup>2</sup>	2.5
Power terminal protection according to IEC/EN 60529				IP00
<b>Mechanical features</b>				
Operating position		normal allowable		Vertical plan ±30°
Fixing				Screw / DIN rail 35mm
Weight			g	242
Conductor section	AWG/kcmil conductor section			
		max		12
<b>Auxiliary contact characteristics</b>				
Thermal current I <sub>th</sub>			A	10
IEC/EN 60947-5-1 designation				Q600
<b>Operations</b>				
Mechanical life			cycles	20000000
Electrical life			cycles	500000
<b>Safety related data</b>				
Performance level B10d according to EN/ISO 13489-1		rated load	cycles	500000
		mechanical load	cycles	20000000
Mirror contacts according to IEC/EN 60947-4-1				yes
EMC compatibility				yes
<b>DC coil operating</b>				
DC rated control voltage			V	12
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
<b>Max cycles frequency</b>				
Mechanical operation			cycles/h	3600
<b>Operating times</b>				
Average time for U <sub>s</sub> 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
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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
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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

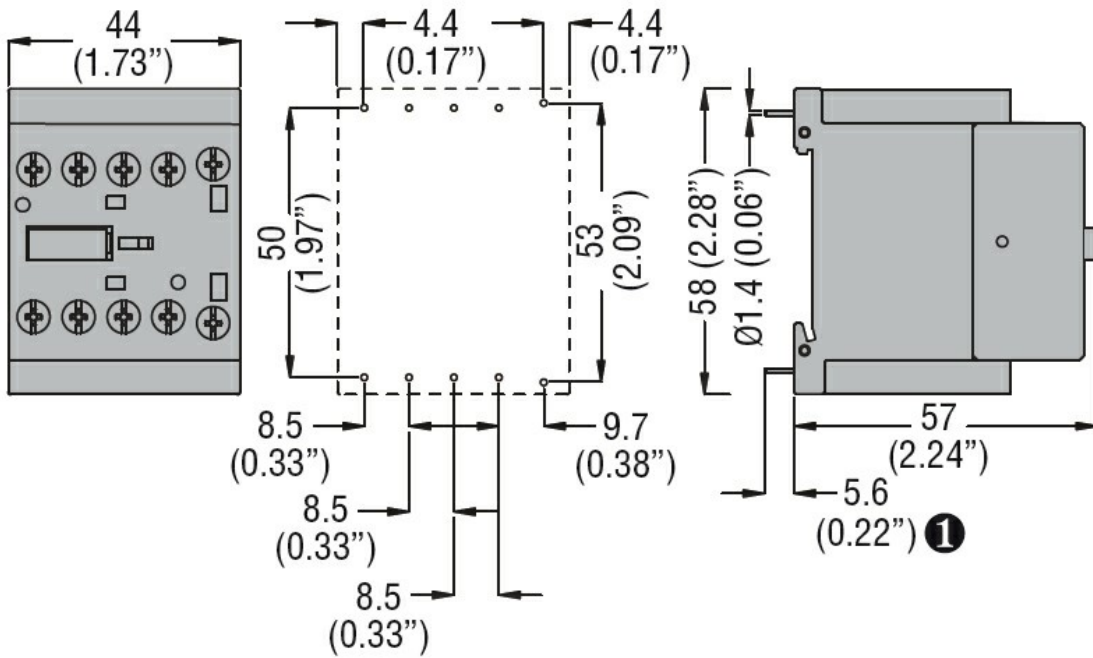
m	3000
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#### Resistance & Protection

Pollution degree

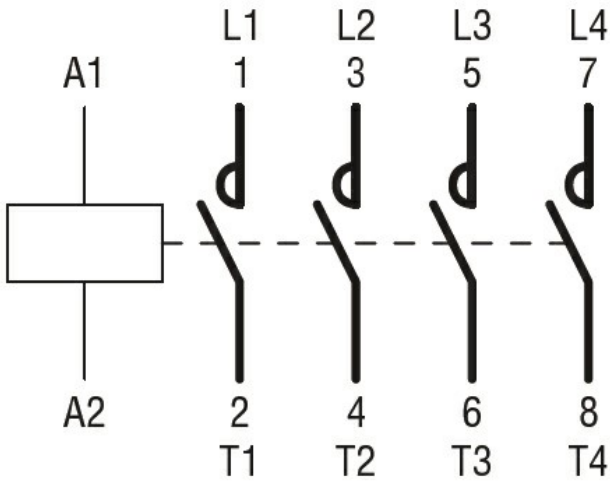
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#### Dimensions



**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