

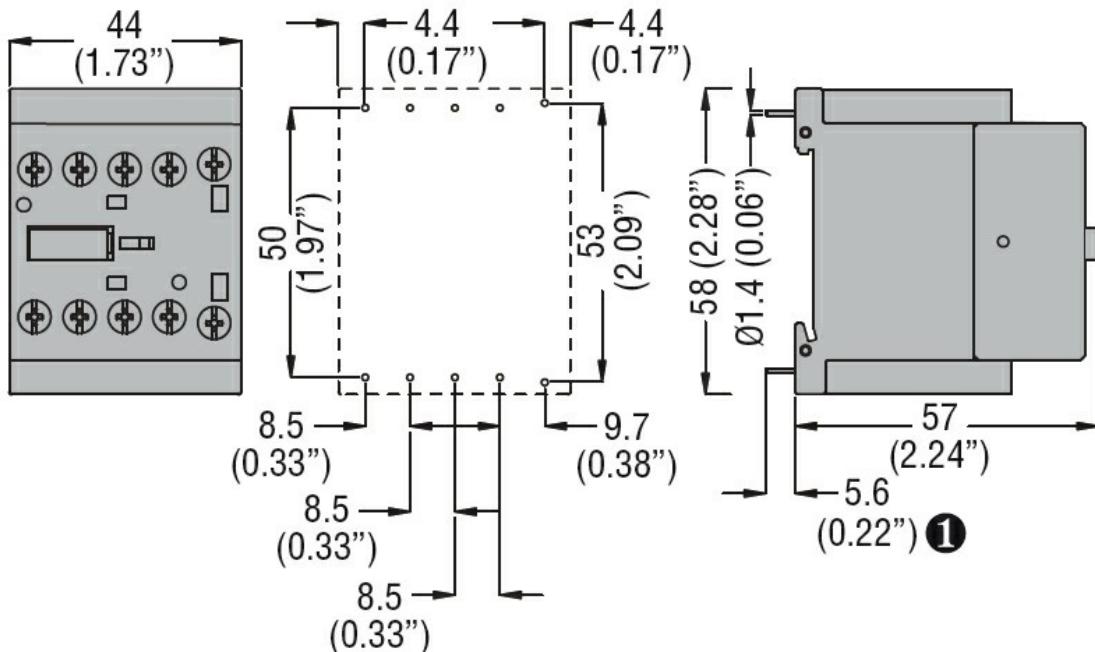


Product designation	Power contactor BGP09		
Product type designation			
Contact characteristics			
Number of poles	Nr.	4	
Rated insulation voltage U_i IEC/EN	V	690	
Rated impulse withstand voltage U_{imp}	kV	6	
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current I_{th}	A	20	
Operational current I_e			
AC-1 ($\leq 40^\circ\text{C}$)	A	20	
AC-1 ($\leq 55^\circ\text{C}$)	A	0	
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
	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)	m?	10	
Power dissipation per pole (average value)	I_{th}	W	4
	AC3	W	0.81
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		IP00
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
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 contacts according to IEC/EN 609474-4-1		yes
EMC compatibility		yes
AC coil operating		
Rated AC voltage at 60Hz	V	230
AC operating voltage		
of 60Hz coil powered at 60Hz		
pick-up		
min	%Us	75
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

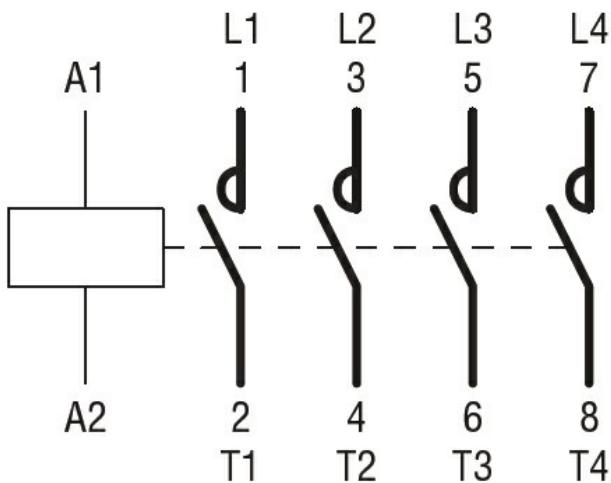
	holding	VA	4
Dissipation at holding $\leq 20^{\circ}\text{C}$ 50Hz		W	0.95
Max cycles frequency			
Mechanical operation		cycles/h	3600
Operating times			
Average time for Us control in AC			
	Closing NO		
		min	ms 12
		max	ms 21
	Opening NO		
		min	ms 9
		max	ms 18
	Closing NC		
		min	ms 17
		max	ms 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			



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