

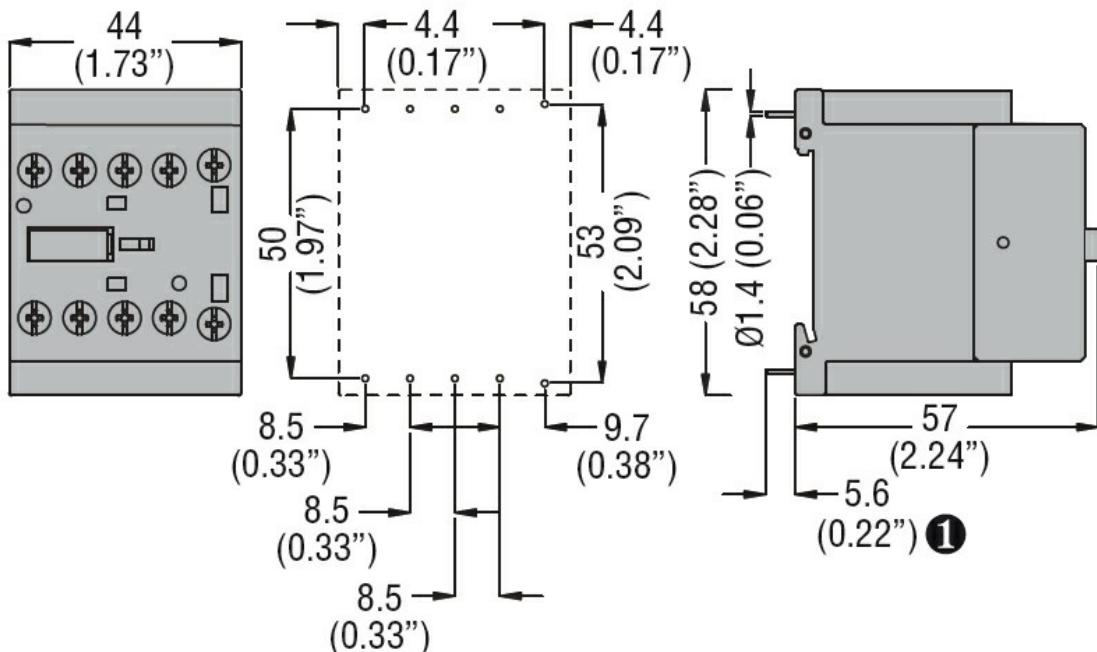


Product designation	Power contactor BGP09		
Product type designation			
Contact characteristics			
Number of poles	Nr. 4		
Rated insulation voltage Ui IEC/EN	V 690		
Rated impulse withstand voltage U_{imp}	kV 6		
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current I_{th}	A 20		
Operational current I_e			
	AC-1 ($\leq 40^\circ C$)	A	20
	AC-1 ($\leq 55^\circ C$)	A	0
	AC-3 ($440V \leq 55^\circ C$)	A	9
	AC-4 (400V)	A	4
Rated operational power AC-1 ($T \leq 40^\circ C$)	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 mechanical load	cycles cycles	500000 20000000
Mirror contacts according to IEC/EN 609474-4-1		yes	
EMC compatibility		yes	
AC coil operating			
Rated AC voltage at 50/60Hz	V	400	
AC operating voltage			
of 50/60Hz coil powered at 50Hz			
pick-up			
min	%Us	75	
max	%Us	115	
drop-out			
min	%Us	20	
max	%Us	55	
of 50/60Hz coil powered at 60Hz			
pick-up			
min	%Us	80	
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			

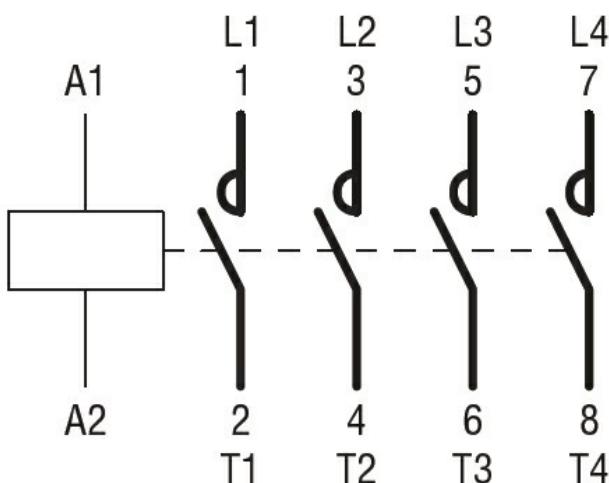
	in-rush	VA	30
	holding	VA	4
of 50/60Hz coil powered at 60Hz			
	in-rush	VA	25
	holding	VA	3
of 60Hz coil powered at 60Hz			
	in-rush	VA	30
	holding	VA	4
Dissipation at holding $\leq 20^{\circ}\text{C}$ 50Hz		W	0.95
Max cycles frequency			
Mechanical operation		cycles/h	3600
Operating times			
Average time for Us control in AC			
	Closing NO		
		min	ms
		max	ms
	Opening NO		
		min	ms
		max	ms
	Closing NC		
		min	ms
		max	ms
	Opening NC		
		min	ms
		max	ms
in DC			
	Closing NO		
		min	ms
		max	ms
	Opening NO		
		min	ms
		max	ms
	Closing NC		
		min	ms
		max	ms
	Opening NC		
		min	ms
		max	ms
UL technical data			
Full-load current (FLA) for three-phase AC motor		at 480V	A
		at 600V	A
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