



Product designation	Power contactor BGP09		
Product type designation			
Contact characteristics			
Number of poles	Nr. 3		
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 ($\leq 40^\circ C$)	A	20
	AC-1 ($\leq 55^\circ C$)	A	18
	AC-1 ($\leq 70^\circ C$)	A	15
	AC-3 ($\leq 440V \leq 55^\circ C$)	A	9
	AC-4 (400V)	A	4
Rated operational power AC-3 ($T \leq 55^\circ C$)	230V	kW	2.2
	400V	kW	4
	415V	kW	4.3
	440V	kW	4.5
	500V	kW	5
Rated operational power AC-1 ($T \leq 40^\circ C$)	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)	mΩ 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	Vertical plan			
	allowable	±30°			
Fixing	Screw / DIN rail 35mm				
Weight	g	200			
Auxiliary contact characteristics					
Thermal current Ith	A	10			
IEC/EN 60947-5-1 designation	A600 - Q600				
Operating current AC15					
	230V	A	3		
	400V	A	1.9		
	500V	A	1.4		
Operating current DC12	110V	A	2.9		
Operating current DC13					
	24V	A	2.9		
	48V	A	1.4		
	60V	A	1.1		
	125V	A	0.3		
	220V	A	0.1		
	600V	A	0.6		
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	120			
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 ≤20°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
-----------	------------	---	----

Contact rating of auxiliary contacts according to UL A600 - Q600

Ambient conditions

Temperature

Operating temperature	min	°C	-50
	max	°C	+70

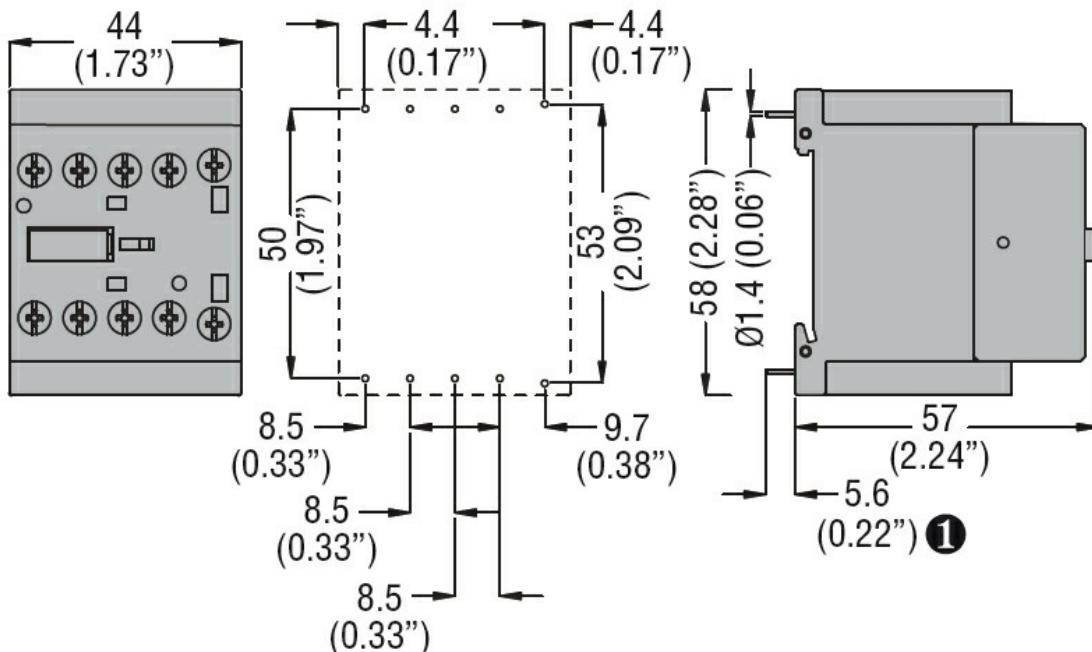
Storage temperature	min	°C	-60
	max	°C	+80

Max altitude m 3000

Resistance & Protection

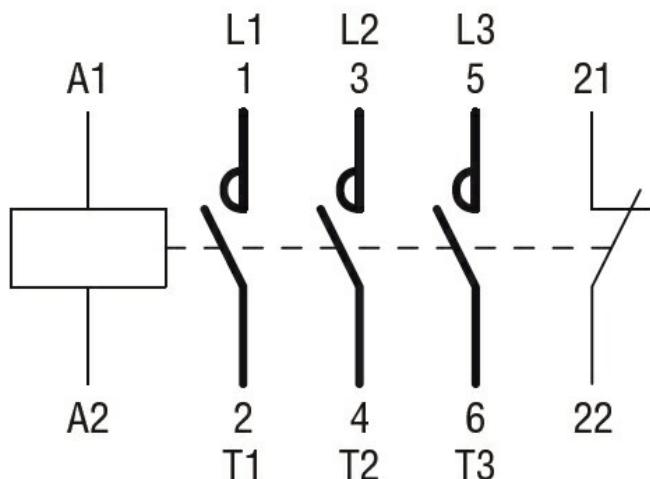
Pollution degree 3

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