

Product designation			Power contactor		
Product type designation			BGP09		
Contact characteristics					
Number of poles			Nr.	3	
Rated insulation voltage Ui IEC/EN			V	690	
Rated impulse withstand voltage Uimp			kV	6	
Operational frequency			min	Hz	25
			max	Hz	400
IEC Conventional free air thermal current Ith			A	20	
Operational current Ie			AC-1 (≤40°C)	A	20
			AC-3 (≤440V ≤55°C)	A	9
			AC-4 (400V)	A	4
Rated operational power AC-3 (T≤55°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≤40°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)			Ith	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	mm²	0.8
	max	mm²	2.5
Flexible c/w lug conductor section			
	min	mm²	1.5
	max	mm²	2.5
Flexible with insulated spade lug conductor section			
	min	mm²	1.5
	max	mm²	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	198
Conductor section			
AWG/kcmil conductor section			
	max		12
Auxiliary contact characteristics			
Thermal current I _{th}		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 60947-4-1			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			

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 400VAC, 1NC AUXILIARY CONTACT, REAR PCB SOLDER PIN

		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 ≤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				

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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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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

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