



Product designation Product type designation			Power contactor BG09
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		Α	20
Operational current le			
	AC-1 (=40°C)	Α	20
	AC-3 (=440V =55°C)	Α	9
	AC-4 (400V)	Α	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
	690V	kW	5
Rated operational power AC-1 (T=40°C)			
	230V	kW	8
	400V	kW	14
	500V	kW	16
	690V	kW	22
IEC max current le in DC1 with $L/R = 1$ ms with 1 poles in series			
	=24V	Α	12
	48V	Α	10
	75V	Α	4
	110V	Α	3
	220V	Α	_
IEC max current le in DC1 with $L/R = 1$ ms with 2 poles in series			
	=24V	Α	15
	48V	Α	14
	75V	Α	9
	110V	Α	8
	220V	Α	_
IEC max current le in DC1 with L/R = 1ms with 3 poles in series			
	=24V	Α	16
	48V	Α	16
	75V	Α	10
	110V	Α	10
IFC max current le in DC1 with L/R = 1ms with 4 poles in series	220V	Α	2

IEC max current le in DC1 with L/R = 1ms with 4 poles in series





	=24V	Α	16
	48V	Α	16
	75V	Α	10
	110V	Α	10
	220V	Α	2
IEC max current le in DC3-DC5 with L/R = 15ms with 1 poles in series			
·	=24V	Α	7
	48V	Α	6
	75V	Α	2
	110V	Α	1
	220V	Α	_
IEC max current le in DC3-DC5 with L/R = 15ms with 2 poles in series			
Temax current to in 200 200 mai 210 Tema mai 2 perso in centre	=24V	Α	8
	48V	Α	8
	75V	Α	5
	110V	A	4
	220V	A	-
IEC max current le in DC3-DC5 with L/R = 15ms with 3 poles in series	220 V	^	_
TEC max current le in DC3-DC5 with L/R = 15ms with 3 poles in series	0.41/	۸	10
	=24V	A	10
	48V	A	10
	75V	A	6
	110V	A	5
	220V	Α	0,8
IEC max current le in DC3-DC5 with L/R = 15ms with 4 poles in series			
	=24V	Α	10
	48V	Α	10
	75V	Α	6
	110V	Α	5
	220V	Α	0,8
Short-time allowable current for 10s (IEC/EN60947-1)		Α	96
Protection fuse			
	gG (IEC)	Α	20
	aM (IEC)	Α	10
Making capacity (RMS value)		Α	92
Breaking capacity at voltage			
	440V	Α	72
	500V	Α	72
	690V	Α	72
Resistance per pole (average value)		m?	10
Power dissipation per pole (average value)			
Tower dissipation per pere (average value)	Ith	W	4
	AC3	W	0.81
Tightening torque for terminals	7.00	V V	0.01
rightening torque for terminals	min	Nm	0.8
	min max	Nm	1
	min	lbin Ibin	9
Tightoning targue for sail torreinal	max	Ibin	9
Tightening torque for coil terminal			2.2
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	Ibin	9
Max number of wires simultaneously connectable		Nr.	2



Conductor section	AAAA		
	AWG/Kcmil	_	40
	Flexible w/o lug conductor section	X	12
	riexible w/o lag corladctor section mi	n mm²	0.75
	ma	_	2.5
	Flexible c/w lug conductor section	X 111111	2.0
	mi	n mm²	1.5
	ma	•	2.5
	Flexible with insulated spade lug conductor section		
	mi	n mm²	1.5
	ma	x mm²	2.5
	ction according to IEC/EN 60529		IP20 when wired
Mechanical features			
Operating position		_	
	norma		Vertical plan
	allowabl	е	±30°
Fixing			Screw / DIN rail
Weight		~	35mm 179
Conductor section		g	113
CONTRACTOR SECTION	AWG/kcmil conductor section		
	ma	x	12
Auxiliary contact chara			12
Thermal current Ith		А	10
IEC/EN 60947-5-1 de	esignation		A600 - Q600
Operating current AC			
	230	/ A	3
	400	/ A	1.9
	500'	/ A	1.4
Operating current DC			
	110	/ A	2.9
Operating current DC			
	24		2.9
	48'	/ A	1.4
	0.01	, ,	
	60		1.2
	110	/ А	1.2 0.6
	110 [°] 125 [°]	V А V А	1.2 0.6 0.55
	110 [°] 125 [°] 220 [°]	V A V A V A	1.2 0.6 0.55 0.3
Operations	110 [°] 125 [°]	V A V A V A	1.2 0.6 0.55
Operations Mechanical life	110 [°] 125 [°] 220 [°]	/ A / A / A / A	1.2 0.6 0.55 0.3 0.1
•	110 [°] 125 [°] 220 [°]	V A V A V A	1.2 0.6 0.55 0.3
Mechanical life	110 [°] 125 [°] 220 [°]	A A A A A Cycles	1.2 0.6 0.55 0.3 0.1
Mechanical life Electrical life Safety related data	110 [°] 125 [°] 220 [°]	A A A A A Cycles	1.2 0.6 0.55 0.3 0.1
Mechanical life Electrical life Safety related data	110' 125' 220' 600'	V A V A V A Cycles Cycles	1.2 0.6 0.55 0.3 0.1
Mechanical life Electrical life Safety related data	110' 125' 220' 600'	A A A A A A A A A A A A A A A A A A A	1.2 0.6 0.55 0.3 0.1 20000000 500000
Mechanical life Electrical life Safety related data Performance level B1	110' 125' 220' 600' 10d according to EN/ISO 13489-1 rated loa	A A A A A A A A A A A A A A A A A A A	1.2 0.6 0.55 0.3 0.1 20000000 500000
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility	110' 125' 220' 600' 10d according to EN/ISO 13489-1 rated loa mechanical loa	A A A A A A A A A A A A A A A A A A A	1.2 0.6 0.55 0.3 0.1 20000000 500000 500000 20000000
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating	110' 125' 220' 600' 10d according to EN/ISO 13489-1 rated loa mechanical loa ing to IEC/EN 609474-4-1	A A A A A A A A A A A A A A A A A A A	1.2 0.6 0.55 0.3 0.1 20000000 500000 500000 20000000 yes yes
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility	110' 125' 220' 600' 10d according to EN/ISO 13489-1 rated loa mechanical loa ing to IEC/EN 609474-4-1	A A A A A A A A A A A A A A A A A A A	1.2 0.6 0.55 0.3 0.1 20000000 500000 500000 20000000 yes

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 consu	umption at 20°C				
	of 50/60Hz coil pov	vered at 50Hz			
			in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil pow	vered at 60Hz			
	·		in-rush	VA	25
			holding	VA	3
	of 60Hz coil powere	ed at 60Hz			
	o. oo oo poo		in-rush	VA	30
			holding	VA	4
Dissipation at holding	=20°C 50Hz		noiding	W	0.95
Max cycles frequency				v v	J.JU
Mechanical operation				cycles/h	3600
Operating times				cycles/II	3000
Average time for Us of	ontrol				
Average time for Us C	in AC				
	In AC	Ola sia si NO			
		Closing NO			40
			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			
		Ŭ	min	ms	18
			max	ms	25
		Opening NO			-
			min	ms	2
			max	ms	3
		Closing NC	παλ	1113	•
		Closing NO	min	ms	3
			max	ms	5
		Opening NC	IIIdX	1113	5
		Opening No	min	mo	11
			min	ms	11 17
III tochnical data			max	ms	17
UL technical data) for three phase AO	motor			
Full-load current (FLA)) for trifee-phase AC i	HOIOI	-1.4001/	^	7.0
			at 480V	A	7.6
70.11			at 600V	Α	6.1
Yielded mechanical pe					
	for single-phase AC	C motor			
			110/120V	HP	0.5

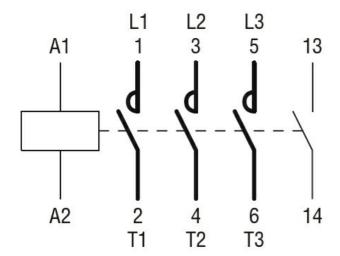




200/208V 220/230V 460/480V 575/600V	HP HP HP HP	2 3 5 5	
220/230V 460/480V 575/600V	HP HP HP	3 5	
460/480V 575/600V	HP HP	5	
575/600V	HP		
		5	
AC current	۸		
AC current	۸		
AC current	Λ		
		20	
		100	
_	А	30	
Fuse class		J	
rt oirouit ourront	IzΛ	E	
		5 30	
ruse railing	A	A600 - Q600	
		A000 - Q000	
min	°C	-50	
		+70	
min	°C	-60	
max	°C	+80	
	m	3000	
		3	
Dimensions (0.17")			
	(1.97")	Fuse rating A Fuse class rt circuit current kA Fuse rating A min °C max °C min °C max °C m	

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 60HZ, 120VAC, 1NO AUXILIARY CONTACT



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

CCC

cULus

EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching