



Product designation Product type designation			Power contactor BG09
Contact characteristics			B000
Number of poles		Nr.	4
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-1 (≤55°C)	Α	18
	AC-1 (≤70°C)	Α	15
	AC-3 (≤440V ≤55°C)	Α	9
	AC-4 (400V)	Α	4
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 ≤ 1ms with 1 poles in series			
	≤24V	Α	12
	48V	Α	10
	75V	Α	4
	110V	Α	3
150	220V	A	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	10.43.7		4.5
	≤24V	A	15
	48V	A	14
	75V	A	9
	110V 220V	A A	8
IFC may current to in DC1 with 1/D < 1 mg with 2 malos in parios	220 V	A	_
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	<0AV	۸	4.0
	≤24V 48V	A	16 16
	75V	A A	16 10
	110V	A	10
	220V	A	2
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	220 V		
120 max outlone to the DOT with Lift 2 mile with 4 poles in selies	≤24V	Α	16
	48V	A	16
	75V	A	10
	110V	A	10
	220V	A	2
	220 V	, ,	-



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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	<u>-</u>
IFC max current le in [DC3-DC5 with L/R ≤ 15ms with 2 poles in series	220 V	- / (
120 max carrent to in E	300 Boo with E/TC = Tollio with 2 poles in series	≤24V	Α	8
		48V	A	8
		75V		
			A	5
		110V	A	4
	200 205 19 1/2 1/5 19 0 1 1	220V	A	_
IEC max current le in I	DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
		≤24V	Α	10
		48V	Α	10
		75V	Α	6
		110V	Α	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	A	5
		220V	A	0,8
Chart time allowable a	urrent for 10g (IEC/ENG0047.1)	220 V		96
	urrent for 10s (IEC/EN60947-1)		A	90
Protection fuse		0 (150)	•	00
		gG (IEC)	Α	20
		aM (IEC)	Α	10
Making capacity (RMS			Α	92
Breaking capacity at vo	oltage			
		440V	Α	72
		500V	Α	72
		690V	Α	72
Resistance per pole (a	verage value)		mΩ	10
Power dissipation per p				
	,	Ith	W	4
		AC-3	W	0.81
Tightening torque for to	erminals	7.00		0.01
g		min	Nm	0.8
			Nm	0.6 1
		max		
		min	lbin	9
The first of the state of the s	20.6	max	Ibin	9
Tightening torque for c	oii terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	9
-		max	lbin	9
Max number of wires s	imultaneously connectable		Nr.	2
Conductor section			·	
	AWG/Kcmil			
		max		12
	Flexible w/o lug conductor section			
		min	mm²	0.75
		111111		J J



		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 protect	ion according to IEC/EN 60529			IP20 when	
	don't according to 120/214 00023			properly wired	
Mechanical features					
Operating position					
		ormal		Vertical plan	
	allov	wable		±30°	
Fixing				Screw / DIN rail	
·				35mm	
Weight			g	183	
Conductor section					
	AWG/kcmil conductor section			40	
		max		12	
Auxiliary contact chara	CTEPISTICS		^	10	
Thermal current Ith			Α	10	
IEC/EN 60947-5-1 des	signation			A600	
Operations					
Mechanical life			cycles	20000000	
Electrical life			cycles	500000	
Safety related data	"				
Performance level B10	Od according to EN/ISO 13489-1				
		load	cycles	500000	
	mechanica	load	cycles	20000000	
	ng to IEC/EN 609474-4-1			yes	
EMC compatibility				yes	
AC coil operating				100	
Rated AC voltage at 60	JHZ		V	460	
AC operating voltage	(a a l) a a l) a a l a a a l				
	of 60Hz coil powered at 60Hz				
	pick-up		0/11		
		min	%Us	75	
	-luan	max	%Us	115	
	drop-out	min	0/116	20	
		min	%Us %Us	20 55	
AC average coil consu	motion at 20°C	max	70US	<u>ວວ</u>	
AC average con consu	•				
	of 50/60Hz coil powered at 50Hz	n-rush	VA	30	
		olding	VA VA	4	
		Juliy	VA	4	
	of 50/60Hz coil powered at 60Hz	n-rush	VA	25	
		olding	VA VA	3	
	of 60Hz coil powered at 60Hz	Jung	٧٨		
	·	n-rush	VA	30	
		olding	VA	4	
Dissipation at holding		Juniy	W	0.95	
Max cycles frequency					
Mechanical operation			cycles/h	3600	
modifical operation			0y0103/11		



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Operating times						
Average time for Us co	ontrol					
	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					
	5.05mg	min	ms	18		
		max	ms	25		
	Opening NO		0			
	oponing ito	min	ms	2		
		max	ms	3		
	Closing NC	max	1113	0		
	Closing NC	min	ms	3		
				5		
	Opening NC	max	ms	3		
	Opening NC			11		
		min	ms	11		
UL technical data		max	ms	17		
Full-load current (FLA) for three-phase AC motor						
ruil-ioad current (FLA)	for three-phase AC motor	ot 490V	٨	7.6		
		at 480V	A	7.6		
Vialdad waadaasiaal sa		at 600V	Α	6.1		
Yielded mechanical per						
	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	Α	20		
Short-circuit protection	fuse, 600V					
	High fault					
		Short circuit current	kA	100		
		Fuse rating	Α	30		
		Fuse class		J		
	Standard fault					
		Short circuit current	kA	5		
		Fuse rating	Α	30		
		Fuse class				
		ruse class		KNO		
Ambient conditions		ruse class		RK5		





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Temperature

remperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			_
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protect	tion			
Pollution degree				3
ETIM classification				
ETIM 8.0				EC000066 - Power contactor, AC switching