



Product designation Product type designation			Power contactor BG09
Contact characteristics			
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-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
	220V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	Α	15
	48V	Α	14
	75V	Α	9
	110V	Α	8
	220V	A	
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
	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	A	10
	110V	A	10
150	220V	Α	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in serie			_
	≤24V	Α	7



ENERGY AND AUTOMATION

		48V	Α	6
		75V	Α	2
		110V	Α	1
		220V	Α	_
IEC max current le in D	DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	·	≤24V	Α	8
		48V	Α	8
		75V	Α	5
		110V	Α	4
		220V	Α	_
IEC max current le in D	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 Γ	DC3-DC5 with L/R ≤ 15ms with 4 poles in series			<i>i</i> -
55 511. 15 111 5	The second secon	≤24V	Α	10
		48V	A	10
		75V	A	6
		110V	A	5
		220V	A	0,8
Short-time allowable cu	urrent for 10s (IEC/EN60947-1)	220 V	A	96
Protection fuse	direction to (IEO/EI100347-1)			30
r rotection ruse		gG (IEC)	Α	20
		aM (IEC)	A	10
Making consoity (PMC)	value)	aivi (IEC)		92
Making capacity (RMS)			A	92
Breaking capacity at vo	niage	440)/	۸	70
		440V	A	72
		500V	A	72
Desistance near relative	vana na valvaV	690V	A	72
Resistance per pole (av			mΩ	10
Power dissipation per p	bole (average value)	141-	١٨/	4
		Ith	W	4
		AC3	W	0.81
Tightening torque for te	erminais			0.0
		min	Nm	0.8
		max	Nm	1
		min	lbin	9
		max	Ibin	9
Tightening torque for co	oil terminal	_		
		min	Nm	0.8
		max	Nm	1
		min	lbin	9
		max	Ibin	9
	multaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		12
	Flexible w/o lug conductor section			
		min	mm²	0.75
		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			IP20 when
Mechanical features			properly wired
Operating position			
	normal		Vertical plan
	wable		±30°
	mabio		Screw / DIN rail
Fixing			35mm
Weight		g	183
Conductor section			
AWG/kcmil conductor section			
	max		12
Auxiliary contact characteristics			
Thermal current Ith		Α	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			
	d load	cycles	500000
Mirror contato according to 150/FN 000474-4-4	ai ioad	cycles	2000000
Mirror contats according to IEC/EN 609474-4-1			yes
EMC compatibility AC coil operating			yes
Rated AC voltage at 60Hz		V	460
AC operating voltage		V	400
of 60Hz coil powered at 60Hz			
pick-up			
pion 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
	olding	VA	4
of 50/60Hz coil powered at 60Hz			0.5
	in-rush	VA	25
	olding	VA	3
of 60Hz coil powered at 60Hz	in ruck	١/٨	20
	in-rush	VA VA	30 4
Dissipation at holding ≤20°C 50Hz	olding	W	0.95
Max cycles frequency		V V	U.3J
Mechanical operation		cycles/h	3600
Operating times		Oy OlO 3/11	
Average time for Us control			



	in AC					
	III AO	Closing NO				
		3 -	min	ms	12	
			max	ms	21	
		Opening NO				
			min	ms	9	
		01 : 110	max	ms	18	
		Closing NC	min		4.7	
			min max	ms ms	17 26	
		Opening NC	IIIdx	1113	20	
		oponing ito	min	ms	7	
			max	ms	17	
	in DC					
		Closing NO				
			min	ms	18	
		0 1 110	max	ms	25	
		Opening NO	•		0	
			min	ms	2 3	
		Closing NC	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 mo	tor	. 100)/		7.0	
			at 480V	A	7.6	
Yielded mechanical pe	rformanco		at 600V	Α	6.1	
rielded mechanical pe	for single-phase AC m	notor				
	for single phase 7.0 fr	10101	110/120V	HP	0.5	
			230V	HP	1.5	
	for three-phase AC me	otor				
	·		200/208V	HP	2	
			220/230V	HP	3	
			460/480V	HP	5	
			575/600V	HP	5	
General USE	0					
	Contactor		AC ourrent	۸	20	
Short-circuit protection	fuso 600V		AC current	Α	20	
Short-circuit protection	High fault					
	riigiriadit		Short circuit current	kA	100	
			Fuse rating	Α	30	
			9			
			Fuse class		J	
	Standard fault		Fuse class		J	
	Standard fault		Short circuit current	kA	5	
	Standard fault			kA A		
Ambient conditions	Standard fault		Short circuit current		5	
Ambient conditions Temperature			Short circuit current		5	
	Standard fault Operating temperature	e	Short circuit current		5	





ENERGY AND AUTOMATION

		max	°C	+70
Sto	orage temperature			_
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protection				
Pollution degree				3
ETIM classification				
ETIM 8.0				EC000066 - Power contactor, AC switching