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Product designation Product type designation			Power contactor BG12
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		А	20
Operational current le			
	AC-1 (≤40°C)	А	20
	AC-3 (≤440V ≤55°C)	А	12
	AC-4 (400V)	А	4.8
Rated operational power AC-3 (T≤55°C)	. ,		
	230V	kW	3.2
	400V	kW	5.7
	415V	kW	6.2
	440V	kW	5.5
	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 ≤ 1ms with 1 poles in series			
	≤24V	А	12
	48V	A	10
	75V	A	4
	110V	A	3
	220V	A	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	А	15
	48V	A	14
	48V 75V	A	9
	110V	A	8
	220V	A	-
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	2201		
	≤24V	А	16
	48V	A	16
	48V 75V	A	10
	110V	A	10
	220V	A	2
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	2201		-

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



	≤24V	А	_
	48V	А	_
	75V	А	_
	110V	А	-
	220V	А	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	А	7
	48V	A	6
	75V	A	2
	110V	A	1
	220V	A	_
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series	220 V	~	
	<241/	۸	0
	≤24V	A	8
	48V	A	8
	75V	A	5
	110V	А	4
	220V	A	_
IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series			
	≤24V	А	10
	48V	Α	10
	75V	А	6
	110V	А	5
	220V	А	0,8
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	А	-
	48V	А	_
	75V	А	_
	110V	A	_
	220V	A	_
Short-time allowable current for 10s (IEC/EN60947-1)		A	96
Protection fuse		7.	
	gG (IEC)	А	20
	aM (IEC)	A	16
Making capacity (PMS value)			120
Making capacity (RMS value)		A	120
Breaking capacity at voltage			00
	440V	A	96
	500V	A	72
	690V	A	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	Ith	W	4
	AC3	W	1.44
Tightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
	max	Ibin	9
Tightening torque for coil terminal	max		-
	min	Nm	0.8
		Nm	
	max		1
	min	Ibin Ibin	9
	max	Ibin	9
Max number of wires simultaneously connectable		Nr.	2



Conductor section				
	AWG/Kcmil	may		12
	Flexible w/o lug conductor section	max		12
		min	mm²	0.75
		max	mm²	2.5
	Flexible c/w lug conductor section			
	U U	min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section	n		
		min	mm²	1.5
		max	mm²	2.5
Power terminal prote	ction according to IEC/EN 60529			IP20 when properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	184
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact char	racteristics			
Thermal current Ith			A	10
IEC/EN 60947-5-1 de	-			A600 - Q600
Operating current AC	215	0001		<u> </u>
		230V	A	3
		400V 500V	A A	1.9 1.4
Operating current DC	12	5007	A	1.4
		110V	А	2.9
Operating current DC	213	1100		2.0
		24V	А	2.9
		48V	A	1.4
		60V	A	1.2
		110V	А	0.6
		125V	А	0.55
		220V	А	0.3
		600V	А	0.1
Operations			·	0000000
Mechanical life			cycles	2000000
Electrical life			cycles	500000
Safety related data				
r enormance level B	10d according to EN/ISO 13489-1	rated load	cycles	500000
		mechanical load	cycles	2000000
Mirror contats accord	ling to IEC/EN 609474-4-1		0,0100	yes
EMC compatibility				yes
AC coil operating				,
	6011-		V	460
Rated AC voltage at	0002		v	

11BG1201A46060 The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



	of 60Hz coil powe				
		pick-up	min	%Us	75
			max	%Us	115
		drop-out	max	/003	115
			min	%Us	20
			max	%Us	55
AC average coil cons	sumption at 20°C		max	/000	00
to avoiago con conc	of 50/60Hz coil p	owered at 50Hz			
	01 00/001 12 001 p		in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil p	owered at 60Hz			•
	0. 00, 00. <u>-</u> 00 p		in-rush	VA	25
			holding	VA	3
	of 60Hz coil powe	ered at 60Hz			
			in-rush	VA	30
			holding	VA	4
Dissipation at holding	g ≤20°C 50Hz		<u></u>	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
JL technical data					
Full load ourropt (EL)	A) for three-phase A0	C motor			
Full-load current (FL/			of 100\/	А	11
ruii-ioad cuiteiti (FL/			at 480V at 600V	A	11

for single-phase AC motor



		110/120V	HP	0.5
		230V	HP	1.5
	for three-phase AC motor			
		200/208V	HP	3
		220/230V	HP	3
		460/480V	HP	7.5
		575/600V	HP	10
General USE				
	Contactor			
		AC current	А	20
Short-circuit protect	tion fuse, 600V			
•	High fault			
	5	Short circuit current	kA	100
		Fuse rating	А	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	30
Contact rating of au	uxiliary contacts according to UL	5		A600 - Q600
Ambient conditions				
Temperature				
	Operating temperature			
	- F	min	°C	-50
		max	°Č	+70
	Storage temperature		-	
		min	°C	-60
		max	°Č	+80
Max altitude		max	m	3000
Resistance & Prote	ection			
Pollution degree				3
· shallon dogido				Ŭ,