



Product designation	Power contactor
Product type designation	BG12

Contact characteristics			
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
		kV	6
Rated impulse withstand voltage Uimp		r.v	U
Operational frequency			25
	min	Hz	25
IFC Conventional free air the model assurant life	max	Hz	400
IEC Conventional free air thermal current Ith		Α	20
Operational current le	10.4 (14000)		00
	AC-1 (≤40°C)	A	20
	AC-1 (≤55°C)	A	18
	AC-1 (≤70°C)	A	15
	AC-3 (≤440V ≤55°C)	A	12
D. () () () () () () () () () (AC-4 (400V)	Α	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	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
<u> </u>	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
		-	-



	220V	Α	2
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	_
	48V	A	_
	75V	A	_ _
	110V	A	_
			_
	220V	Α	
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			
The max sarront to in 8 co 8 co wait 2/12 Tome wait 2 poles in cones	≤24V	Α	8
	48V	A	
			8
	75V	Α	5
	110V	Α	4
	220V	Α	
IEC max current le in 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 may current to in DC2 DC5 with L/D < 15mg with 4 poles in series	220 V		0,0
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	2041 /	^	
	≤24V	A	_
	48V	Α	_
	75V	Α	_
	110V	Α	_
	220V	Α	_
Short-time allowable current for 10s (IEC/EN60947-1)		Α	96
Protection fuse			
	gG (IEC)	Α	20
	aM (IEC)	Α	16
Making capacity (RMS value)	aw (ILO)	A	120
			120
Breaking capacity at voltage	,	_	
	440V	Α	96
	500V	Α	72
	690V	Α	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
,	lth	W	4
	AC-3	W	1.44
Tightening torque for terminals	,,,,,	• • •	
rightoning torque for terminals	:-	Nima	Λ 0
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
	max	Ibin	9
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
			-



Man and other	simultan a such a such a such la	max	Ibin	9
	simultaneously connectable		Nr.	2
Conductor section	AMC/Komil			
	AWG/Kcmil	may		12
	Flexible w/o lug conductor section	max		12
	Trexible w/o rug corrudctor section	min	mm²	0.75
		max	mm²	2.5
	Flexible c/w lug conductor section	max		2.0
	r ionibio of it rag corradator cocileri	min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section			
		min	mm²	1.5
		max	mm²	2.5
Dawar tarminal proto	etion according to IEC/EN COECO			IP20 when
Power terminal protec	ction according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	184
Conductor section	AMO / cord cord cord			
	AWG/kcmil conductor section			40
Auviliant contact char	cataviation	max		12
Auxiliary contact char Thermal current Ith	actensiics		А	10
IEC/EN 60947-5-1 de	nianation		A	A600 - Q600
Operating current AC	<u> </u>			A000 - Q000
Speraling current AC	15	230V	Α	3
		400V	A	3 1.9
		500V	A	1.4
Operating current DC	12	300 V		1
operating eartern be	12	110V	Α	2.9
Operating current DC	13	1101		2.0
oporating carroin bo		24V	Α	2.9
		48V	A	1.4
		60V	A	1.2
			Α	0.6
		110V 125V	A A	0.6 0.55
		110V		0.6 0.55 0.3
		110V 125V	Α	0.55
Operations		110V 125V 220V	A A	0.55 0.3
•		110V 125V 220V	A A	0.55 0.3
Mechanical life		110V 125V 220V	A A A	0.55 0.3 0.1
Mechanical life Electrical life		110V 125V 220V	A A A cycles	0.55 0.3 0.1
Mechanical life Electrical life Safety related data	I0d according to EN/ISO 13489-1	110V 125V 220V	A A A cycles	0.55 0.3 0.1
Mechanical life Electrical life Safety related data	0d according to EN/ISO 13489-1	110V 125V 220V	A A A cycles	0.55 0.3 0.1
Mechanical life Electrical life Safety related data		110V 125V 220V 600V	A A A cycles	0.55 0.3 0.1 20000000 500000
Mechanical life Electrical life Safety related data Performance level B1		110V 125V 220V 600V	A A A Cycles cycles	0.55 0.3 0.1 20000000 500000
	me	110V 125V 220V 600V	A A A Cycles cycles	0.55 0.3 0.1 20000000 500000 500000 20000000



Rated AC voltage at 60)Hz			V	460
AC operating voltage					
	of 60Hz coil power				
		pick-up	min	0/116	75
			min max	%Us %Us	75 115
		drop-out	Παλ	/003	113
		diop out	min	%Us	20
			max	%Us	55
AC average coil consur	mption at 20°C	-	-		
	of 50/60Hz coil pov	wered at 50Hz			
			in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil pov	wered at 60Hz			
			in-rush	VA	25
	. (0011		holding	VA	3
	of 60Hz coil power	eu at ounz	in-rush	VA	30
			in-rush holding	VA VA	4
Dissipation at holding ≤	20°C 50Hz		Tioluling	W	0.95
Max cycles frequency	0 0 001 12			V V	0.00
Mechanical operation				cycles/h	3600
Operating times				,	
Average time for Us co	ntrol				
	in AC				
		Closing NO			
			min	ms	12
			max	ms	21
		Opening NO	•		•
			min	ms	9 18
		Closing NC	max	ms	10
		Closing NC	min		47
			(1111)	ms	17
			min max	ms ms	17 26
		Opening NC	max	ms ms	26
		Opening NC			
		Opening NC	max	ms	26
	in DC		max min	ms ms	267
	in DC	Opening NC Closing NO	max min max	ms ms	26 7 17
	in DC		max min max min	ms ms ms	26 7 17
	in DC	Closing NO	max min max	ms ms ms	26 7 17
	in DC		max min max min max	ms ms ms	26 7 17 18 25
	in DC	Closing NO	max min max min max min max	ms ms ms	26 7 17 18 25 2
	in DC	Closing NO Opening NO	max min max min max	ms ms ms	26 7 17 18 25
	in DC	Closing NO	max min max min max min max	ms ms ms ms	26 7 17 18 25 2
	in DC	Closing NO Opening NO	max min max min max min max min max min	ms ms ms ms ms ms	26 7 17 18 25 2 3
	in DC	Closing NO Opening NO	max min max min max min max	ms ms ms ms	26 7 17 18 25 2
	in DC	Closing NO Opening NO Closing NC	max min max min max min max min max min	ms ms ms ms ms ms	26 7 17 18 25 2 3
	in DC	Closing NO Opening NO Closing NC	max min max min max min max min max	ms ms ms ms ms ms	26 7 17 18 25 2 3 3 5
		Closing NO Opening NO Closing NC Opening NC	max min max min max min max min max min max min max	ms	26 7 17 18 25 2 3 3 5
JL technical data Full-load current (FLA)		Closing NO Opening NO Closing NC Opening NC	max min max min max min max min max min max min max	ms	26 7 17 18 25 2 3 3 5 11 17
		Closing NO Opening NO Closing NC Opening NC	max min max min max min max min max min max min max	ms	26 7 17 18 25 2 3 3 5



Yielded mechanical performance			
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	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		RK5
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