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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		А	20
Operational current le			
	AC-1 (≤40°C)	А	20
	AC-1 (≤55°C)	А	18
	AC-1 (≤70°C)	А	15
	AC-3 (≤440V ≤55°C)	А	9
	AC-4 (400V)	А	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 $L/R \le 1$ ms with 1 poles in series			
	≤24V	А	12
	48V	А	10
	75V	A	4
	110V	А	3
	220V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	A	15
	48V	A	14
	75V	A	9
	110V	A	8
	220V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series		_	
	≤24V	A	16
	48V	A	16
	75V	A	10
	110V	А	10

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and 11BG0901D024V120 functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



	220V	^	0
IFC may aument to in DC1 with L/D < 1 may with 1 males in agrice	2200	A	2
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series	(04)	^	4.0
	≤24V	A	16
	48V 75V	A	16
	75V 110V	A	10
	220V	A A	10 2
IEC may surrent le in DC2 DCE with $L/D < 15$ may with 1 palas in series	2200	A	Ζ
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series	<241	^	7
	≤24V 48V	A A	7
	48V 75V		6
	110V	A	2
		A	1
	220V	A	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series	(04)	^	0
	≤24V	A	8
	48V	A	8
	75V	A	5
	110V	A	4
	220V	A	_
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series			10
	≤24V	A	10
	48V	Α	10
	75V	А	6
	110V	А	5
	220V	A	0,8
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series			
	≤24V	А	10
	48V	А	10
	75V	А	6
	110V	А	5
	220V	A	0,8
Short-time allowable current for 10s (IEC/EN60947-1)		A	96
Protection fuse			
	gG (IEC)	А	20
	aM (IEC)	A	10
Making capacity (RMS value)		А	92
Breaking capacity at voltage			
	440V	А	72
	500V	А	72
	690V	Α	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	Ith	W	4
	AC-3	W	0.81
Tightening torque for terminals			
	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



Max number of wires simultaneously connectable Nr. 2 Conductor section AWG/Kcmil Flexible w/o lug conductor section Tim mm² 1.5 Texible c/w lug conductor section Tim mm² 2.5 Flexible c/w lug conductor section Tim mm² 1.5 Texible w/o lug conductor section Tim mm² 2.5 Texible w/o lug conductor section Tim mm² 2.5 Texible w/o lug conductor section Tim max mm² 2.5 Texible w/o lug conductor section Wetchanical features Operating position Texing Weight Screw / DN rall Screw / DN ral			max	lbin	9
AWG/Kcmil max 12 Flexible w/o lug conductor section min mm* 0.75 max mm* 2.5 Flexible c/w lug conductor section min* mm* 1.5 max mm* 2.5 Flexible with insulated spade lug conductor section mm* 1.5 max mm* 2.5 Power terminal protection according to IEC/EN 60529 mm* 2.5 Power terminal protection according to IEC/EN 60529 mm* 2.5 Power terminal protection according to IEC/EN 60529 vertical plan 300 Operating position normal vertical plan 430° Fixing Screw / DIN rail 35mm 35mm Weight g 212 200 212 Conductor section max 12 200 4 10 IEC/EN 60947.5-1 designation A600 - Q600	Max number of wires	simultaneously connectable		Nr.	2
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 2.5 Power terminal protection according to IEC/EN 60529 ins mm² 2.5 Power terminal protection according to IEC/EN 60529 ins mm² 2.5 Power terminal protection according to IEC/EN 60529 ins mm² 2.5 Power terminal protection according to IEC/EN 60529 ins mm² 2.5 Power terminal protection according to IEC/EN 60529 ins mm² 2.5 Mechanical features ormal Vertical plan 35mm Mechanical features g 212 Conductor section assert / DIN rail Melght g 212 Conductor section assert / DIN rail AuxOlikernil conductor section max 12 AuxOlikernil conductor section Assert / DIN rail	Conductor section				
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Power terminal protection 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 212 Conductor section AWG/kcmil conductor section Thermal current th IEC/EN 60947-5-1 designation Operating current AC15 230V A 3 400V A 1.9 500V A 1.4 Operating current DC12 110V A 2.9 Operating current DC13 24V A 2.9 Operating current DC13 24V A 2.9 Operating current DC13 24V A 2.9 0perating current DC13 0perating					
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110V A 2.9 Operating current DC13 24V A 2.9 48V A 1.4 60V A 1.2 110V A 0.6 125V A 0.55 220V A 0.3 600V A 0.1 Operations Zyde Zyde Mechanical life cycles 2000000 Electrical life cycles 500000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 Mirror contats according to IEC/EN 609474-4-1 yes 20000000 EMC compatibility yes 2000000	IEC/EN 60947-5-1 de	-		A	A600 - Q600 3
Operating current DC13 24V A 2.9 48V A 1.4 60V A 1.2 110V A 0.6 125V A 0.55 220V A 0.3 600V A 0.1 Operations	IEC/EN 60947-5-1 de	-	400V	A A	A600 - Q600 3 1.9
24V A 2.9 48V A 1.4 60V A 1.2 110V A 0.6 125V A 0.55 220V A 0.3 600V A 0.1 Operations Mechanical life cycles 20000000 Electrical life cycles 500000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes yes	IEC/EN 60947-5-1 de Operating current AC	15	400V	A A	A600 - Q600 3 1.9
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Mechanical lifecycles2000000Electrical lifecycles50000Safety related dataPerformance level B10d according to EN/ISO 13489-1rated load mechanical loadcycles500000Mirror contats according to IEC/EN 609474-4-1yesyesEMC compatibilityyes	IEC/EN 60947-5-1 de Operating current AC Operating current DC	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3
Electrical life cycles 500000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 rated load cycles 500000 20000000 20000000 Mirror contats according to IEC/EN 609474-4-1 yes yes EMC compatibility yes yes	IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3
Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility yes	IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 mechanical load cycles 20000000 20000000 Mirror contats according to IEC/EN 609474-4-1 yes yes EMC compatibility yes	IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A A A Cycles	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000
rated load cycles 500000 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes	IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A A A Cycles	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000
mechanical load cycles 2000000 Mirror contats according to IEC/EN 609474-4-1 yes yes EMC compatibility yes	IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A A A Cycles	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000
EMC compatibility yes	IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	15	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A A A Cycles cycles	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
	IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	15 12 13 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A A A Cycles cycles	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 500000
DC coil operating	IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B1	15 12 13 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A A A Cycles cycles	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 500000 500000
	IEC/EN 60947-5-1 de Operating current AC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility	15 12 13 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A A A Cycles cycles	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 500000 500000 20000000 yes

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DC rated control voltage	ge			V	24
DC operating voltage					
	pick-up			0/11	
			min	%Us	75
			max	%Us	115
	drop-out			0/11-	10
			min	%Us %Us	10 25
Average coil consump	tion <20°C		max	7605	25
Average con consump			in-rush	W	3.2
			holding	Ŵ	3.2
Max cycles frequency			Holding	vv	0.2
Mechanical operation				cycles/h	3600
Operating times				0,0100,11	
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	min	ms	18
			max	ms	25
		Opening NO	Παλ	1113	20
			min	ms	2
			max	ms	3
		Closing NC	man		-
		g <u>_</u>	min	ms	3
			max	ms	5
		Opening NC			
		-	min	ms	11
			max	ms	17
UL technical data					
Full-load current (FLA)	for three-phase A	AC motor			
			at 480V	А	7.6
			at 600V	A	6.1
Yielded mechanical pe					
	for single-phase	e AC motor			
			110/120V	HP	0.5
	<u></u>	10	230V	HP	1.5
	for three-phase	AC motor	000/0001/		0
			200/208V	HP	2
			220/230V	HP	3
			460/480V 575/600V	HP HP	5 5
			VUU0/C/C	٦٢	5

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General USE			
Contactor			
	AC current	А	20
Short-circuit protection fuse, 600V			
High fault			
	Short circuit current	kA	100
	Fuse rating	А	30
	Fuse class		J
Standard fault			
	Short circuit current	kA	5
	Fuse rating	А	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
ETIM classification			
			EC000066 -
ETIM 8.0			Power contactor,
			AC switching