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Product designation Product type designation			Power contactor BG09
Contact characteristics			BG09
Number of poles		nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency		ΝV	0
Operational nequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	Шал	A	20
Operational current le		~	20
Operational current le	AC-1 (≤40°C)	А	20
	AC-3 (≤440V ≤55°C)	A	9
	AC-3 (194400 200 C) AC-4 (400V)	A	9 4
Rated operational power AC-3 (T≤55°C)	AC-4 (400V)	~	4
Nated operational power AC-3 (1203 C)	230V	kW	2.2
	230V 400V	kW	4
	400V 415V	kW	4.3
	440V	kW	4.5
	440V 500V	kW	5
	690V	kW	5
Rated operational power AC-1 (T≤40°C)	090 V	r v v	5
Rated operational power AC-1 (1540 C)	230V	kW	8
	230V 400V	kW	
	400V 500V		14
		kW	16
Short time allowable current for 10c (IEC/EN60047.1)	690V	kW	22 96
Short-time allowable current for 10s (IEC/EN60947-1) Protection fuse		A	90
Protection ruse		۸	20
	gG (IEC)	A	20
Making conscitu (DMC uslue)	aM (IEC)	A	10
Making capacity (RMS value)		A	92
Breaking capacity at voltage	4.4017		70
	440V	A	72
	500V	A	72
	690V	A	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	lth	W	4
	AC3	W	0.81
Tightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.59
	max	Ibin	0.74

Tightening torque for coil terminal



Veight g Issmit Veight g 182 Veight 1NO Thermal current lth A 10 EC/EN 60947-5-1 designation A 10 Deperating current AC15 230V A 3 400V A 1.9 500V A 1.4 Deperating current DC12 110V A 2.9 2.9 Operating current DC13 24V A 2.9 4.8V A 1.4 Operating current DC13 24V A 2.9 4.8V A 1.4 Operating current DC13 24V A 2.9 4.8V A 1.4 Operating current DC13 24V A 2.9 4.8V A 1.4 60V A 1.2 110V A 0.6 1.25V A 0.55 220V A 0.3 600V A 0.1 2000000 600V A 0.1 20000000 20000000 2000000<						
min bft 0.8 Max lbft 0.74 Aax number of wires simultaneously connectable nr. 2 Conductor section nr. 2 Flexible w/o lug conductor section min mm² 0.75 Flexible c/w lug conductor section min mm² 2.5 Flexible with insulated spade lug conductor section min mm² 1.5 max mm² 2.5 15 Power terminal protection according to IEC/EN 60529 mo² 1.5 Vechanical features min mm² 1.5 Operating position normal ±30° 10 Flexible with insulated spade lug conductor section min mm² 1.5 Wight g 182 35mm 10 Circla foatres g 182 35mm Vecified features 230V A 3 Vecified features 230V A 10 Circla foatres/fields 1NO 10 Flexible with insulated spade lo			min	Nm	0.8	
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Aax number of wires simultaneously connectable nr. 2 Conductor section Flexible w/o lug conductor section Flexible w/o lu			min			
Conductor section min mm* 0.75 Flexible c/w lug conductor section min mm* 2.5 Flexible c/w lug conductor section min mm* 2.5 Flexible with insulated spade lug conductor section min mm* 2.5 Preventional protection according to IEC/EN 60529 IP20 when wired IP20 when wired Apprating position normal wortical plan #30° Yeight g 182 182 Weight g 182 Screw / DIN rail Yeig on tacct characteristics g 182 Weight g 182 Weight g 182 Weight g 182 Weight g 182 Vollary contact 1 NO hermal current th A 10 EC/EN 60947-5-1 designation A 600 - 0600 Deparating current DC12 110V A 2.9 Operating current DC13 24V A 2.9 Operating current DC13 24V A 2.9 Operating current DC13 24V<			max	lbft		
Flexible w/o lug conductor section max mm² 0.75 max mm² 2.5 Flexible c/w lug conductor section min mm² 1.5 max mm² 2.5 1.5 Flexible with insulated spade lug conductor section max mm² 2.5 Preventerminal protection according to IEC/EN 60529 mormal 1.5 max mm² 2.5 Prover terminal protection according to IEC/EN 60529 mormal mormal 4.00 1.5 Prover terminal protection according to IEC/EN 60529 mormal wetrical plan 4.00 Acchanical Ledatores mormal wetrical plan ±.30° Somm screw / DIN rait 3.5 1.6 Yee of contact g 182 1.8 Vasilay contact characteristics g 1.8 3.5 Vasilay contact A 1.0 1.0 CPE N 60947-5-1 designation A 3.400V A 1.9 Deprating current DC12 110V A 2.9 2.9		ultaneously connectable		nr.	2	
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Operating position normal allowable vertical plan allowable normal allowable ±30° Tixing Screw / DIN rail Weight g 182 Wuxillary contact characteristics 1 NO Thermal current lth A 10 EC/EN 60947-5-1 designation A 10 Deperating current AC15 230V A 3 Querter DC12 10V A 1.9 Deperating current DC12 10V A 2.9 Operating current DC13 24V A 2.9 48V A 1.4 60V A 1.4 Operating current DC13 24V A 2.9 48V A 1.4 Operating current DC13 24V A 2.9 48V A 1.4 Operating current DC13 24V A 0.6 125V A 0.6 125V A 0.6 125V A 0.1 10V A 0.6 125V A <td></td> <td></td> <td></td> <td></td> <td>IF20 when when</td>					IF20 when when	
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hermal current lth A 10 EC/EN 60947-5-1 designation A600 - Q600 Operating current AC15 230V A 3 200V A 1.9 500V A 1.4 Operating current DC12 110V A 2.9 48V A 1.4 Operating current DC13 24V A 2.9 48V A 1.4 Operating current DC13 24V A 2.9 48V A 1.4 Operating current DC13 24V A 2.9 48V A 1.4 Operations 220V A 0.3 60V A 0.5 220V A 0.3 600V A 0.1 0.3 Operations					1 NO	
EC/EN 60947-5-1 designation A600 - Q600 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 1.4 60V A 1.2 110V A 0.6 125V A 0.55 220V A 0.3 600V A 0.1 Operations 20000000 20000000 Mechanical life cycles 20000000 500000 20000000 Safety related data 20000000 20000000 20000000 20000000 Virror contats according to EN/ISO 13489-1 rated load cycles 500000 Mechanical load cycles 500000 20000000 Mechanical load cycles 500000 200000000 Mechanical load cycle				Α		
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500V Å 1.4 Operating current DC12 110V Å 2.9 Operating current DC13 24V Å 2.9 48V Å 1.4 60V Å 2.9 48V Å 1.4 60V Å 2.9 48V Å 1.4 60V Å 1.2 110V Å 0.6 125V Å 0.55 220V Å 0.3 600V Å 0.1 Operations				А		
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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 Mechanical load cycles 500000 Mechanical load cycles 500000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 mechanical load cycles 500000			110V	А	2.9	
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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 20000000 AC coil operating Yes Yes Accol operating Rated AC voltage at 50/60Hz, 60Hz			24V	А	2.9	
110VA0.6125VA0.55220VA0.3600VA0.1OperationsMechanical lifecycles20000000Electrical lifecycles500000Safety related datacycles500000rated loadcycles500000Performance level B10d according to EN/ISO 13489-1rated loadcycles500000Mirror contats according to IEC/EN 609474-4-1yes20000000Mirror contats according to IEC/EN 609474-4-1yes20000000Mircor contats according to IEC/EN 609474-4-1yes20000000Ac coil operatingYesYesXesAc coil operatingKated AC voltage at 50/60Hz, 60HzKesKes			48V	А	1.4	
125VA0.55220VA0.3600VA0.1Derationsvycles20000000Mechanical lifecycles20000000Electrical lifecycles500000Safety related datavycles500000Performance level B10d according to EN/ISO 13489-1rated loadcyclesPerformance level B10d according to EN/ISO 13489-1vycles500000Mirror contats according to IEC/EN 609474-4-1yes20000000Mirror contats according to IEC/EN 609474-4-1yesvesEMC compatibilityYesvesAc coil operatingS0/60Hz, 60Hzves			60V	А	1.2	
220VA0.3600VA0.1DecrationsvolumeMechanical lifecycles20000000Electrical lifecycles500000Safety related datacycles500000Performance level B10d according to EN/ISO 13489-1rated loadcycles500000Mirror contats according to IEC/EN 609474-4-1yes20000000Mirror contats according to IEC/EN 609474-4-1yesYesCompatibilityYesXesAc coil operatingS0/60Hz, 60HzS0/60Hz			110V	А	0.6	
220V 600VA0.3 0.1OperationsKechanical lifeCycles2000000Mechanical lifecycles500000Electrical lifecycles500000Safety related dataFrated loadcycles500000Performance level B10d according to EN/ISO 13489-1rated loadcycles500000Mirror contats according to IEC/EN 609474-4-1yesyesEMC compatibilityYesYesAc coil operatingS0/60Hz, 60HzYes						
600VA0.1Operationscycles2000000Mechanical lifecycles500000Electrical lifecycles500000Safety related datarated loadcyclesPerformance level B10d according to EN/ISO 13489-1rated loadcyclesMirror contats according to IEC/EN 609474-4-1yesEMC compatibilityyesAc coil operatingYesRated AC voltage at 50/60Hz, 60Hz			220V	А		
Mechanical life cycles 2000000 Electrical life cycles 50000 Safety related data rated load cycles 500000 Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 Mirror contats according to IEC/EN 609474-4-1 yes 20000000 20000000 Mirror contats according to IEC/EN 609474-4-1 yes Yes EMC compatibility Yes Yes AC coil operating Rated AC voltage at 50/60Hz, 60Hz Kental contact			600V	А	0.1	
Electrical life cycles 500000 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 AC coil operating Rated AC voltage at 50/60Hz, 60Hz	Operations					
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 yes EMC compatibility Yes AC coil operating Rated AC voltage at 50/60Hz, 60Hz	Mechanical life			cycles	20000000	
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 yes EMC compatibility Yes AC coil operating Rated AC voltage at 50/60Hz, 60Hz	Electrical life			cycles	500000	
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mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility Yes AC coil operating Yes Rated AC voltage at 50/60Hz, 60Hz 60Hz	Performance level B10d	according to EN/ISO 13489-1				
Airror contats according to IEC/EN 609474-4-1 yes EMC compatibility Yes AC coil operating Rated AC voltage at 50/60Hz, 60Hz			rated load	cycles	500000	
EMC compatibility Yes AC coil operating Rated AC voltage at 50/60Hz, 60Hz		mec	hanical load	cycles	2000000	
AC coil operating Rated AC voltage at 50/60Hz, 60Hz		to IEC/EN 609474-4-1			yes	
Rated AC voltage at 50/60Hz, 60Hz	EMC compatibility				Yes	
-	AC coil operating					
min V 12	Rated AC voltage at 50/6	0Hz, 60Hz				
			min	V	12	

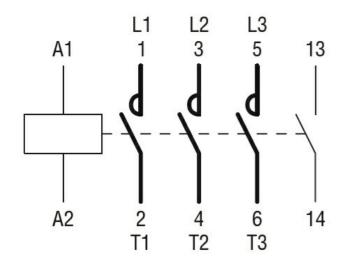


			max	V	575
AC operating voltage					
	of 50/60Hz coil pow				
		pick-up	min	%Us	75
			min max	%Us %Us	75 115
		drop-out	Шал	/003	115
			min	%Us	20
			max	%Us	55
	of 50/60Hz coil pow	vered at 60Hz			
		pick-up			
			min	%Us	80
			max	%Us	115
		drop-out		0/11-	00
			min	%Us %Us	20
AC operating voltage	ie at 20°C		max	%05	55
	of 50/60Hz coil pow	vered at 50Hz			
			in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil pow	vered at 60Hz	g		
			in-rush	VA	25
			holding	VA	3
	of 60Hz coil powere	ed at 60Hz			
			in-rush	VA	30
			holding	VA	4
Dissipation at holdin	ng ≤20°C 50Hz			W	0.95
DC coil operating	14				
DC rated control vo	ltage		min	V	6
			min max	V	8 250
Average coil consu	mption ≤20°C		Пах	v	200
, tronago con conca			in-rush	W	3.2
			holding	W	3.2
Max cycles frequen	су		, i i i i i i i i i i i i i i i i i i i		
Mechanical operation	ons			cycles/h	3600
Operating times					
Average time for Us					
	in AC				
		Closing NO			10
			min	ms	12
		Opening NO	max	ms	21
			min	ms	9
			max	ms	18
		Closing NC		-	
		<u> </u>	min	ms	17
			max	ms	26
		Opening NC			
			min	ms	7
			max	ms	17
	in DC				
		Closing NO		ma	10
			min	ms	18



	max	ms	25
Opening NO			
	min	ms	2
	max	ms	3
Closing NC			
.	min	ms	3
	max	ms	5
Opening NC		-	-
op or might o	min	ms	11
	max	ms	17
UL technical data	max	ine	
Full-load current (FLA) for three-phase AC motor			
i di-idad current (i LA) for three-phase AC motor	at 480V	А	7.6
	at 600V	A	6.1
Violded mechanical performance	at 600 v	A	0.1
Yielded mechanical performance			
for single-phase AC motor			a -
	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
Contact rating of auxiliary contacts according to UL			A600 - Q600
General USE			
Contactor			
	AC current	А	20
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-40
		•	
	may	°C	
Storage temperature	max	°C	60
Storage temperature			60
Storage temperature	min	°C	-55
		°C °C	60 -55 70
Max altitude	min	°C	-55
Max altitude Resistance & Protection	min	°C °C	60 -55 70 3000
Max altitude Resistance & Protection Pollution degree	min	°C °C	60 -55 70
Max altitude Resistance & Protection	min max	°C °C	60 -55 70 3000
Max altitude Resistance & Protection Pollution degree Dimensions	min max	°C °C m	60 -55 70 3000 3
Max altitude Resistance & Protection Pollution degree Dimensions 44^{-1} $(0.17^{"})$ $(0$	min	°C °C m	60 -55 70 3000
Max altitude Resistance & Protection Pollution degree Dimensions 44 - (0.17") - (0.17") - (2.24")	min max	°C °C m	60 -55 70 3000 3
Max altitude Resistance & Protection Pollution degree Dimensions 44 + (0.17") +	min max	°C °C m	60 -55 70 3000 3
Max altitude Resistance & Protection Pollution degree Dimensions $44 + \frac{44}{(0.17'')} + \frac{44}{(0.17'')} + \frac{44}{(0.17'')} + \frac{57}{(2.24'')} + \frac{57}{(2$	min max	°C °C m	60 -55 70 3000 3
Max altitude Resistance & Protection Pollution degree Dimensions 44 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4		, (2 ²⁸) , 2 ⁸ , 2 ⁹ , 2 ⁹	60 -55 70 3000 3
Max altitude Resistance & Protection Pollution degree Dimensions $44 + \frac{44}{(0.17)} + \frac{44}{(0.17)} + \frac{44}{(0.17)} + \frac{57}{(2.24'')} + \frac{57}{(2.24'')$	min max	°C °C m	60 -55 70 3000 3
Max altitude Resistance & Protection Pollution degree Dimensions 44 + (0.17") +	min max	°C °C m	60 -55 70 3000 3
Max altitude Resistance & Protection Pollution degree Dimensions 44 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4	min max	°C °C m	60 -55 70 3000 3
Max altitude Resistance & Protection Pollution degree Dimensions $44 + (0.17)^{44} + (0.17)^{44$	min max	°C °C m	60 -55 70 3000 3





Certifications and compliance

Compliance

Compliance	
	CSA C22.2 n° 60947-1
	CSA C22.2 n° 60947-4-1
	IEC/EN 60947-1
	IEC/EN 60947-4-1
	UL 60947-1
	UL 60947-4-1
Certificates	
	CCC
	cULus
	EAC

ETIM 6 classification

EC000066 - Power contactor, AC switching