



Product designation			Auxiliary contactor
Product type designation			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-1 (≤55°C)	Α	18
	AC-1 (≤70°C)	Α	15
	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
150	690V	kW	22
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	40.414		40
	≤24V	A	12
	48V	A	10
	75V 110V	A	4
	220V	A	3
IEC may current to in DC1 with L/D < 1 mg with 2 notes in series	Z2UV	A	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	≤24V	Α	15
	48V	A	14
	75V	A	9
	110V	A	8
	220V	A	-
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series		- , ,	
sanoni le in Be i mai Bix = inte mai e potee in contro	≤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	Α	10
	110V	Α	10
	220V	Α	2



ENERGY AND AUTOMATION

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	A	_	
IEC may ourrent le in [DC2 DC5 with L/D < 15mg with 2 notes in series	220 V			
IEC max current le in L	DC3-DC5 with L/R ≤ 15ms with 2 poles in series	-0.4V		•	
		≤24V	Α	8	
		48V	Α	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	A	5	
IFO	200 DOE with 1/D < 45 - 21/4 4 - 1 - 1	220V	A	0,8	
ı⊨C max current le in [DC3-DC5 with L/R ≤ 15ms with 4 poles in series		_		
		≤24V	Α	10	
		48V	Α	10	
		75V	Α	6	
		110V	Α	5	
		220V	Α	0,8	
Short-time allowable c	urrent for 10s (IEC/EN60947-1)		Α	96	
Protection fuse					
1 Totodion Tasc		gG (IEC)	Α	20	
Malian and (DMO	.1	aM (IEC)	A	10	
Making capacity (RMS	,		Α	92	
Breaking capacity at vo	oltage				
		440V	Α	72	
		500V	Α	72	
		690V	Α	72	
Resistance per pole (a	verage value)		mΩ	10	
Power dissipation per p	· ·				
	, (Ith	W	4	
		AC-3	W	0.8	
Tightoning torque for to	orminals	AC-3	V V	0.0	
Tightening torque for to	לוחוווומוס		N.I	0.0	
		min	Nm	0.8	
		max	Nm	1	
		min	lbin	9	
		max	lbin	9	
Tightening torque for c	oil terminal				
		min	Nm	0.8	
		max	Nm	1	
		min	lbin	9	
		max	Ibin	9	
May number of wires o	imultaneously connectable	Παλ	Nr.	2	
	imultaneously connectable		INI.	۷	
Conductor section					
	AWG/Kcmil				
		max		12	
	Flexible w/o lug conductor section	·			·
		min	mm²	0.8	



				2.5
	Flexible c/w lug conductor section	max	mm²	2.5
	Flexible C/w lug conductor section	min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor sectio		111111	2.0
	r lexible with insulated space lug conductor section	min	mm²	1.5
		max	mm²	2.5
Power terminal protect	tion according to IEC/EN 60529	max		IP20
Mechanical features	tion according to 120/214 00020			11 20
Operating position				
operating position		normal		Vertical plan
		allowable		±30°
				Screw / DIN rail
Fixing				35mm
Weight			g	200
Auxiliary contact chara	acteristics			
Thermal current Ith			Α	10
IEC/EN 60947-5-1 des	signation			A600
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data				
Performance level B10	0d according to EN/ISO 13489-1			
		rated load	cycles	500000
		mechanical load	cycles	20000000
EMC compatibility				YES
AC coil operating				
Rated AC voltage at 6	0Hz		V	24
AC operating voltage				
	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	75
		max	%Us	115
	drop-out			
		min	%Us	20
		max	%Us	55
AC average coil consu	•			
	of 50/60Hz coil powered at 50Hz		1.74	0.0
		in-rush	VA	30
	of 50/001 = apil = coursed at 001	holding	VA	4
	of 50/60Hz coil powered at 60Hz	المنسمة	١/٨	25
		in-rush	VA	25
	of COLIZ anil name and at COLIZ	holding	VA	3
	of 60Hz coil powered at 60Hz	in ruch	VA	30
		in-rush		
Dissipation at holding	<20°C 50H-	holding	VA W	0.9
Max cycles frequency			V V	U.3
Mechanical operation			cycles/h	3600
Operating times			Cycles/II	3000
Average time for Us co	ontrol			
Average unite tot US Co	UTILIUI			

Closing NO

in AC



		min	ms	12
		max	ms	21
	Opening NO			
	oponing rec	min	ms	9
	Obstant NO	max	ms	18
	Closing NC			
		min	ms	17
		max	ms	26
	Opening NC			
		min	ms	7
		max	ms	17
	in DC	max	1110	
	Closing NO			
		min	ms	18
		max	ms	25
	Opening NO			
	. 3	min	ms	2
		max	ms	3
	Closing NC	IIIAA	1113	J
	Closing NC	•		0
		min	ms	3
		max	ms	5
	Opening NC			
		min	ms	11
		max	ms	17
UL technical data				
Rated operational volta	uge AC (III)		V	600
			v	000
ruii-ioad current (FLA)	for three-phase AC motor			7.0
		at 480V	Α	7.6
		at 480V at 600V	A	7.6 6.1
Yielded mechanical pe	rformance			
Yielded mechanical pe				
Yielded mechanical pe	rformance for single-phase AC motor	at 600V	Α	6.1
Yielded mechanical pe		at 600V 110/120V	A HP	0.5
Yielded mechanical pe	for single-phase AC motor	at 600V	Α	6.1
Yielded mechanical pe		at 600V 110/120V 230V	A HP HP	0.5 1.5
Yielded mechanical pe	for single-phase AC motor	at 600V 110/120V 230V 200/208V	HP HP	0.5 1.5
Yielded mechanical pe	for single-phase AC motor	at 600V 110/120V 230V 200/208V 220/230V	A HP HP	0.5 1.5
Yielded mechanical pe	for single-phase AC motor	at 600V 110/120V 230V 200/208V	HP HP	0.5 1.5
Yielded mechanical pe	for single-phase AC motor	at 600V 110/120V 230V 200/208V 220/230V 460/480V	HP HP HP HP	0.5 1.5 2 3 5
	for single-phase AC motor	at 600V 110/120V 230V 200/208V 220/230V	HP HP HP	0.5 1.5 2 3
Yielded mechanical pe	for single-phase AC motor for three-phase AC motor	at 600V 110/120V 230V 200/208V 220/230V 460/480V	HP HP HP HP	0.5 1.5 2 3 5
	for single-phase AC motor	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V	HP HP HP HP HP	0.5 1.5 2 3 5 5
General USE	for single-phase AC motor for three-phase AC motor Contactor	at 600V 110/120V 230V 200/208V 220/230V 460/480V	HP HP HP HP	0.5 1.5 2 3 5
	for single-phase AC motor for three-phase AC motor Contactor fuse, 600V	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V	HP HP HP HP HP	0.5 1.5 2 3 5 5
General USE	for single-phase AC motor for three-phase AC motor Contactor	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V	HP HP HP HP HP	0.5 1.5 2 3 5 5
General USE	for single-phase AC motor for three-phase AC motor Contactor fuse, 600V	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V	HP HP HP HP HP	0.5 1.5 2 3 5 5
General USE	for single-phase AC motor for three-phase AC motor Contactor fuse, 600V	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current	HP HP HP HP HP	6.1 0.5 1.5 2 3 5 5
General USE	for single-phase AC motor for three-phase AC motor Contactor fuse, 600V	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current Fuse rating	HP HP HP HP HP	6.1 0.5 1.5 2 3 5 5 5
General USE	for single-phase AC motor for three-phase AC motor Contactor fuse, 600V High fault	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current	HP HP HP HP HP	6.1 0.5 1.5 2 3 5 5
General USE	for single-phase AC motor for three-phase AC motor Contactor fuse, 600V	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current Fuse rating Fuse class	A HP HP HP HP A kA A	6.1 0.5 1.5 2 3 5 5 5 20 100 30 J
General USE	for single-phase AC motor for three-phase AC motor Contactor fuse, 600V High fault	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current Fuse rating Fuse class Short circuit current	A HP HP HP HP A kA A	6.1 0.5 1.5 2 3 5 5 100 30 J
General USE	for single-phase AC motor for three-phase AC motor Contactor fuse, 600V High fault	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current Fuse rating Fuse class Short circuit current Fuse rating Fuse rating	A HP HP HP HP A kA A	6.1 0.5 1.5 2 3 5 5 20 100 30 J 5 30
General USE	for single-phase AC motor for three-phase AC motor Contactor fuse, 600V High fault	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current Fuse rating Fuse class Short circuit current	A HP HP HP HP A kA A	6.1 0.5 1.5 2 3 5 5 100 30 J
General USE	for single-phase AC motor for three-phase AC motor Contactor fuse, 600V High fault	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current Fuse rating Fuse class Short circuit current Fuse rating Fuse rating	A HP HP HP HP A kA A	6.1 0.5 1.5 2 3 5 5 20 100 30 J 5 30
General USE Short-circuit protection Ambient conditions	for single-phase AC motor for three-phase AC motor Contactor fuse, 600V High fault	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current Fuse rating Fuse class Short circuit current Fuse rating Fuse rating	A HP HP HP HP A kA A	6.1 0.5 1.5 2 3 5 5 20 100 30 J 5 30
General USE Short-circuit protection	for single-phase AC motor for three-phase AC motor Contactor fuse, 600V High fault Standard fault	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current Fuse rating Fuse class Short circuit current Fuse rating Fuse rating	A HP HP HP HP A kA A	6.1 0.5 1.5 2 3 5 5 20 100 30 J 5 30
General USE Short-circuit protection Ambient conditions	for single-phase AC motor for three-phase AC motor Contactor fuse, 600V High fault	at 600V 110/120V 230V 200/208V 220/230V 460/480V 575/600V AC current Fuse rating Fuse class Short circuit current Fuse rating Fuse rating	A HP HP HP HP A kA A	6.1 0.5 1.5 2 3 5 5 20 100 30 J 5 30





		1.02					
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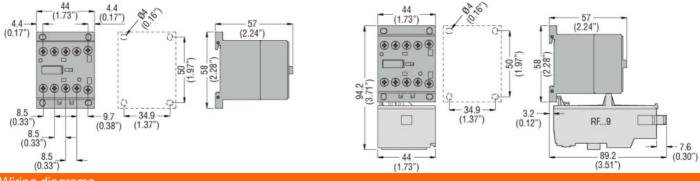
	max	°C	+70	
Storage temperature				
	min	°C	-60	
	max	°C	+80	
		m	3000	

Resistance & Protection

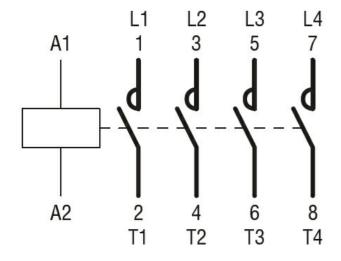
Pollution degree 3

Dimensions

Max altitude



Wiring diagrams



Certifications and 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 classification

ETIM 8.0

EC000066 -Power contactor, AC switching