



Product designation Product type designation			Power contactor 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
9	AC-4 (400V)	Α	4
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
150	220V	A	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	40 AV /		4.5
	≤24V	A	15
	48V	A	14
	75V	A	9
	110V	A	8
IFC many commant to im DC4 with L/D < 4 may with 2 males in parish	220V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	<0.417	۸	10
	≤24V	A	16
	48V 75V	A A	16 10
	110V	A	10
	220V	A	2
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	2200	^	
ILO max ounch le in DOT with L/N > 11115 with 4 poles in selles	≤24V	Α	16
	≤24∨ 48V	A	16
	75V	A	10
	110V	A	10
	220V	A	2
	220 V	^	_



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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	<u>-</u>
IEC may ourrent to in [DC2 DC5 with L/D < 15mg with 2 pales in series	220 V		
IEC max current le in L	DC3-DC5 with L/R ≤ 15ms with 2 poles in series	-0.4V		0
		≤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	A	6
		110V	A	5
IFO	200 DOE with L/D < 45 - 27 4 4 1 1 1	220V	A	0,8
IEC max current le in L	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 co	urrent for 10s (IEC/EN60947-1)		Α	96
Protection fuse				
. 10.000.01110.00		gG (IEC)	Α	20
Maldan (DA10		aM (IEC)	A	10
Making capacity (RMS	,		Α	92
Breaking capacity at vo	oitage			
		440V	Α	72
		500V	Α	72
		690V	Α	72
Resistance per pole (a	verage value)		mΩ	10
Power dissipation per	· · ·			
	, (Ith	W	4
		AC-3	W	0.81
Tightoning torque for to	orminala	AU-3	V V	0.01
Tightening torque for te	eminalS			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	imultaneously connectable	IIIaX		2
	imultaneously connectable		Nr.	
Conductor section				
	AWG/Kcmil			
		max		12
	Flexible w/o lug conductor section			
	-	min	mm²	0.75



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		max	mm²	2.5
	Flexible c/w lug conductor section			
		min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor se		mama ²	1 E
		min max	mm² mm²	1.5 2.5
		IIIdA	111111	IP20 when
Power terminal protect	tion according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	190
Conductor section				
	AWG/kcmil conductor section			40
Auviliant contest share	otoriotico	max		12
Auxiliary contact chara Thermal current Ith	CIETISIICS		Α	10
IEC/EN 60947-5-1 des	signation			A600
Operations	Signation			Addo
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
	150/51/000/51/	mechanical load	cycles	20000000
	ng to IEC/EN 609474-4-1			yes
EMC compatibility AC coil operating				yes
Rated AC voltage at 60	NHz		V	230
AC operating voltage	0112		•	200
rio operaning remage	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	75
		max	%Us	115
	drop-out		0/11	00
		min	%Us %Us	20 55
AC average coil consu	umption at 20°C	max	7005	55
, to average our consu	of 50/60Hz coil powered at 50Hz			
	5. 55,661 12 6611 powerou at 601 12	in-rush	VA	30
		holding	VA	4
	of 50/60Hz coil powered at 60Hz	<u> </u>		_
		in-rush	VA	25
		holding	VA	3
	of 60Hz coil powered at 60Hz	_		
		in-rush	VA	30
		holding	VA	4
Discinction at halding	<20°C EU∏-			
Dissipation at holding:	≤20°C 50Hz		W	0.95
Dissipation at holding: Max cycles frequency Mechanical operation	≤20°C 50Hz			0.95



Operating times				
Average time for Us co	ontrol			
	in AC			
	Closing N	Ю		
	2.33.19	min	ms	12
		max	ms	21
	Opening		1113	- :
	Opering	min	ms	9
		max	ms	18
	Closing N		1113	10
	Closing N	min	ms	17
		max		26
	Opening		ms	20
	Opening		ma	7
		min	ms	7
	in DC	max	ms	17
	in DC	10		
	Closing N			4.0
		min	ms	18
		max	ms	25
	Opening			0
		min	ms	2
		max	ms	3
	Closing N			_
		min	ms	3
		max	ms	5
	Opening			
		min	ms	11
		max	ms	17
III to obsided alete				
UL technical data				
	for three-phase AC motor			
	for three-phase AC motor	at 480V	A	7.6
	for three-phase AC motor	at 480V at 600V	A A	7.6 6.1
Full-load current (FLA)	erformance			
Full-load current (FLA)		at 600V		6.1
Full-load current (FLA)	erformance		A	
Full-load current (FLA)	erformance for single-phase AC motor	at 600V 110/120V	A HP	0.5
Full-load current (FLA)	erformance	at 600V 110/120V 230V	A HP HP	0.5 1.5
Full-load current (FLA)	erformance for single-phase AC motor	at 600V 110/120V 230V 200/208V	HP HP	0.5 1.5
Full-load current (FLA)	erformance for single-phase AC motor	at 600V 110/120V 230V 200/208V 220/230V	HP HP HP	0.5 1.5 2 3
Full-load current (FLA)	erformance 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
Full-load current (FLA) Yielded mechanical pe	erformance for single-phase AC motor	at 600V 110/120V 230V 200/208V 220/230V	HP HP HP	0.5 1.5 2 3
Full-load current (FLA)	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
Full-load current (FLA) Yielded mechanical pe	erformance 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
Yielded mechanical pe	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
Full-load current (FLA) Yielded mechanical pe	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
Yielded mechanical pe	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
Yielded mechanical pe	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 5
Yielded mechanical pe	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 5 100 30
Yielded mechanical pe	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 5
Yielded mechanical pe	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	HP HP HP HP HP	6.1 0.5 1.5 2 3 5 5 100 30 J
Yielded mechanical pe	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	HP HP HP HP HP KA	6.1 0.5 1.5 2 3 5 5 100 30 J
Yielded mechanical pe	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	HP HP HP HP HP	6.1 0.5 1.5 2 3 5 5 100 30 J
Full-load current (FLA) Yielded mechanical per General USE Short-circuit protection	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	HP HP HP HP HP KA	6.1 0.5 1.5 2 3 5 5 100 30 J
Yielded mechanical pe	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	HP HP HP HP HP KA	6.1 0.5 1.5 2 3 5 5 100 30 J



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Temperature

Operating temperature

	min	°C	-50	
	max	°C	+70	
Storage temperature				
	min	°C	-60	
	max	°C	+80	
		m	3000	

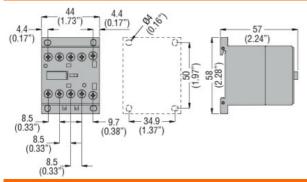
Resistance & Protection

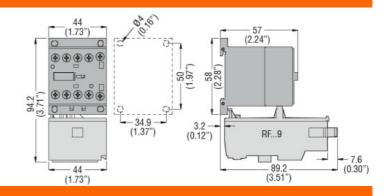
Pollution degree

3

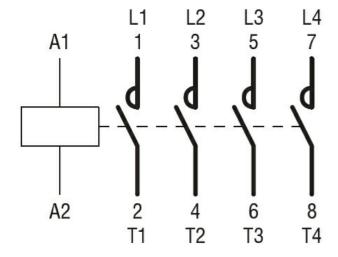
Dimensions

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