



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
	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	A	
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	A	8
	220V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series		_	4.0
	≤24V	Α	16
	48V	A	16
	75V	Α	10
	110V	A	10
150 H. PO4 W. L'D. L. A. W. A. L.	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	A	10
	110V	A	10
	220V	A	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	-0.43.4		•	
		≤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 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	orminala	AU-3	V V	0.0	
Tightening torque for te	enninals		.,	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	



		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	_	2	
		min	mm²	1.5
Dower terminal protect	tion according to IEC/EN 60529	max	mm²	2.5 IP20
Mechanical features	tion according to IEC/EN 00329			11-20
Operating position				
1 01		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	200
Conductor section				_
	AWG/kcmil conductor section			
		max		12
Auxiliary contact chara	cteristics		^	4.0
Thermal current Ith	nianation		Α	10 A600
IEC/EN 60947-5-1 des Operations	signation			A600
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data			0,0.00	
	Od according to EN/ISO 13489-1			
	•	rated load	cycles	500000
		mechanical load	cycles	2000000
	ng to IEC/EN 609474-4-1			YES
EMC compatibility				YES
AC coil operating			\ /	40
Rated AC voltage at 60 AC operating voltage	UHZ		V	48
AC operating voltage	of 60Hz coil powered at 60Hz			
	pick-up			
	ριοκ αρ	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	:	١/٨	20
		in-rush holding	VA VA	30 4
	of 50/60Hz coil powered at 60Hz	noluling	٧٨	<u> </u>
	5. 55, 551 12 5511 portorou at 551 12	in-rush	VA	25
		holding	VA	3
	of 60Hz coil powered at 60Hz			
		in-rush	VA	30
		holding	VA	4
Dissipation at holding :	≤20°C 50Hz		W	0.9
N.4.				
Max cycles frequency Mechanical operation			cycles/h	2600



Operating times					
Average time for Us co	ontrol				
	in AC				
		Closing NO			
			min	ms	12
			max	ms	21
		Opening NO			0
			min max	ms ms	9 18
		Closing NC	IIIax	1115	10
		Cloomig 110	min	ms	17
			max	ms	26
		Opening NC			
			min	ms	7
	-		max	ms	17
	in DC				
		Closing NO			
			min	ms	18
		Opening NO	max	ms	25
		Opening NO	min	ms	2
			max	ms	3
		Closing NC	max		·
		9	min	ms	3
			max	ms	5
		Opening NC			
			min	ms	11
			max	ms	17
UL technical data Full-load current (FLA)	for three phase AC m	votor			
Full-load current (FLA)	noi unee-phase AC in	iotoi	at 480V	Α	7.6
			at 600V	A	6.1
Yielded mechanical pe	erformance		4.0001	, ,	0
		motor			
	for single-phase AC	motor	110/120V	HP	0.5
		motor	110/120V 230V	HP HP	0.5 1.5
			230V	HP	1.5
	for single-phase AC		230V 200/208V	HP HP	2
	for single-phase AC		230V 200/208V 220/230V	HP HP HP	1.5 2 3
	for single-phase AC		230V 200/208V 220/230V 460/480V	HP HP HP	1.5 2 3 5
Conoral USE	for single-phase AC		230V 200/208V 220/230V	HP HP HP	1.5 2 3
General USE	for single-phase AC for three-phase AC r		230V 200/208V 220/230V 460/480V	HP HP HP	1.5 2 3 5
General USE	for single-phase AC		230V 200/208V 220/230V 460/480V 575/600V	HP HP HP HP	1.5 2 3 5 5
	for single-phase AC r		230V 200/208V 220/230V 460/480V	HP HP HP	1.5 2 3 5
General USE Short-circuit protection	for single-phase AC r for three-phase AC r Contactor fuse, 600V		230V 200/208V 220/230V 460/480V 575/600V	HP HP HP HP	1.5 2 3 5 5
	for single-phase AC r		230V 200/208V 220/230V 460/480V 575/600V	HP HP HP HP	1.5 2 3 5 5
	for single-phase AC r for three-phase AC r Contactor fuse, 600V		230V 200/208V 220/230V 460/480V 575/600V AC current	HP HP HP HP	1.5 2 3 5 5 20
	for single-phase AC r for three-phase AC r Contactor fuse, 600V High fault		230V 200/208V 220/230V 460/480V 575/600V AC current	HP HP HP HP	1.5 2 3 5 5 5
	for single-phase AC r for three-phase AC r Contactor fuse, 600V		230V 200/208V 220/230V 460/480V 575/600V AC current Short circuit current Fuse rating Fuse class	HP HP HP HP	1.5 2 3 5 5 20 100 30 J
	for single-phase AC r for three-phase AC r Contactor fuse, 600V High fault		230V 200/208V 220/230V 460/480V 575/600V AC current Short circuit current Fuse rating Fuse class Short circuit current	HP HP HP HP A kA	1.5 2 3 5 5 20 100 30 J
	for single-phase AC r for three-phase AC r Contactor fuse, 600V High fault		230V 200/208V 220/230V 460/480V 575/600V AC current Short circuit current Fuse rating Fuse class Short circuit current Fuse rating	HP HP HP HP	1.5 2 3 5 5 20 100 30 J
	for single-phase AC r for three-phase AC r Contactor fuse, 600V High fault		230V 200/208V 220/230V 460/480V 575/600V AC current Short circuit current Fuse rating Fuse class Short circuit current	HP HP HP HP A kA	1.5 2 3 5 5 20 100 30 J



ENERGY AND AUTOMATION

Temperature

Operating temperature

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

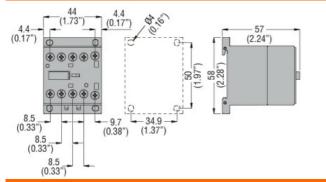
Resistance & Protection

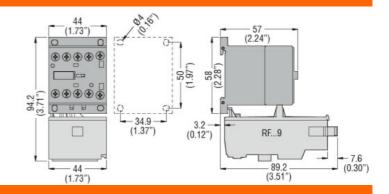
Pollution degree

3

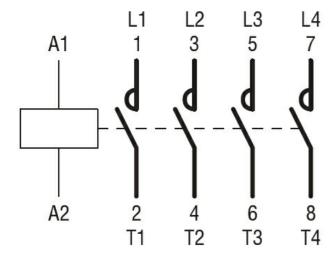
Dimensions

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