



Product designation	Power contactor
Product type designation	BG09
Contact characteristics	

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)	00017	1 147	0
	230V	kW	8
	400V	kW	14
	500V	kW	16
Object time allowable assessed for 400 (IFO/FNC0047.4)	690V	kW	22
Short-time allowable current for 10s (IEC/EN60947-1)		Α	96
Protection fuse	۵۵ (۱۲۵)	۸	20
	gG (IEC)	A	20 10
Making capacity (RMS value)	aM (IEC)	A A	92
Breaking capacity (Kivis value)		^	92
Breaking capacity at voltage	440V	Α	72
	500V	A	72
	690V	A	72
Resistance per pole (average value)	030 V	mΩ	10
Power dissipation per pole (average value)		11132	
. S. S. S. S. S. Paris Por Poro (avorago valuo)	Ith	W	4
	AC3	W	0.81
Tightening torque for terminals	,.50		
5 ··	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	lbin	9
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	lbin	9
Max number of wires simultaneously connectable		Nr.	2
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ENERGY AND AUTOMATION

Conductor section				_
	AWG/Kcmil			
		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 secti			
		min	mm²	1.5
		max	mm²	2.5
	tion according to IEC/EN 60529			IP20 when wired
Mechanical features				
Operating position		_		
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	180
Conductor section	ANACO (In constitution of the constitution of			
	AWG/kcmil conductor section			40
A cutilism contact above	otoviotica	max		12
Auxiliary contact chara	ctensucs		^	10
Thermal current Ith	ai ma ati a a		A	10
IEC/EN 60947-5-1 des	•			A600
Operating current DC1	2	440\/	۸	2.0
On a ratio a surrout DO	0	110V	A	2.9
Operating current DC1	3	0.41/	۸	0.0
		24V	A	2.9
		48V	A	1.4
		60V	A	1.1
		125V	A	0.3
		220V 600V	A	0.1
Operations		6007	Α	0.6
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data			Cycles	300000
	Od according to EN/ISO 13489-1			
r enomiance level bit	od according to E14/15O 15469-1	rated land	ovoloo	500000
		rated load mechanical load	cycles	2000000
Mirror contate accordi	og to IEC/EN 600474 4 1	mechanicai ioau	cycles	YES
EMC compatibility	ng to IEC/EN 609474-4-1			
AC coil operating				yes
Rated AC voltage at 5	0/60Hz		V	110
AC operating voltage	0/00112		V	110
AC operating voitage	of FO/GOUZ poil powered at FOUZ			
	of 50/60Hz coil powered at 50Hz			
	pick-up	min	%Us	75
		min	%Us	75 115
	drop-out	max	/008	113
	αιορ-οαι	min	%Us	20
		111111	/003	۷.



			max	%Us	55
	of 50/60Hz coil p				
		pick-up			
			min	%Us	80
			max	%Us	115
		drop-out			
			min	%Us	20
			max	%Us	55
C average coil consu					
	of 50/60Hz coil p	owered at 50Hz			
			in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil p	owered at 60Hz			
			in-rush	VA	25
			holding	VA	3
	of 60Hz coil power	ered at 60Hz			
			in-rush	VA	30
			holding	VA	4
issipation at holding:	≤20°C 50Hz			W	0.95
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
verage 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			
			min	ms	2
			max	ms	3
		Closing NC		ms	3
		Closing NC		ms ms	3
		Closing NC	max		
		Closing NC Opening NC	max min	ms	3
			max min	ms	3
			max min max	ms ms	3 5 11
L technical data			max min max min	ms ms	3 5
JL technical data Full-load current (FLA)) for three-phase A0	Opening NC	max min max min	ms ms	3 5 11
JL technical data Full-load current (FLA)) for three-phase A0	Opening NC	max min max min max	ms ms ms	3 5 11 17
) for three-phase A0	Opening NC	max min max min	ms ms	3 5 11

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for single-phase AC motor		for single-phase	AC	motor
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	110/120V 230V	HP HP	0.5 1.5
for three-phase AC motor			
	200/208V	HP	2
	220/230V	HP	3
	460/480V	HP	5
	575/600V	HP	5

General USE

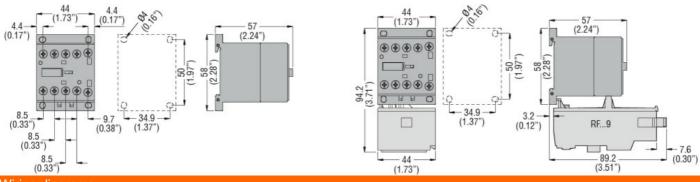
Contactor

		AC current	Α	20
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
D 1 4 D D 4 4				

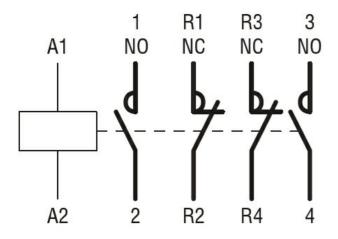
Resistance & Protection

Pollution degree

Dimensions



Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1





Four-pole contactor, AC coil 50/60Hz, 110VAC, 2NO and 2NC

	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