



Product designation		Power contactor
Product type designation		BG09
Contact characteristics		
Number of poles	Nr	4

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
Short-time allowable current for 10s (IEC/EN60947-1)		Α	96
Protection fuse			
	gG (IEC)	Α	20
	aM (IEC)	Α	10
Making capacity (RMS value)		Α	92
Breaking capacity at voltage			
	440V	Α	72
	500V	Α	72
	690V	Α	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	Ith	W	4
	AC3	W	0.81
Tightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.59
	max	lbin	0.74
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
		Ibin	0.8
	min	IDIII	0.0
	min max	lbin	0.74



Conductor section			_
Conductor Gootlon	AWG/Kcmil		
	ma	x	12
	Flexible w/o lug conductor section		
	mi	n mm²	0.75
	ma	x mm²	2.5
	Flexible c/w lug conductor section		
	mi		1.5
	ma	x mm²	2.5
	Flexible with insulated spade lug conductor section		
	mi		1.5
D	ma	x mm²	2.5
	ction according to IEC/EN 60529		IP20 when wired
Mechanical features			
Operating position	norma	sl.	Vertical plan
	allowabl		±30°
	allowabi		Screw / DIN rail
Fixing			35mm
Weight		g	179
Conductor section			
	AWG/kcmil conductor section		
	ma	x	12
Auxiliary contact chara	acteristics		
Thermal current Ith		Α	10
IEC/EN 60947-5-1 de			A600
Operating current DC			
	110	/ A	2.9
Operating current DC			
	24		2.9
	48		1.4
	60'		1.1
	125		0.3
	220 <sup>°</sup> 600°		0.1 0.6
Operations	000	v A	0.0
Mechanical life		cycles	20000000
Electrical life		cycles	500000
Safety related data		oy oloo	000000
	0d according to EN/ISO 13489-1		
	rated loa	d cycles	500000
	mechanical loa	•	20000000
Mirror contats accordi	ng to IEC/EN 609474-4-1	<u> </u>	YES
EMC compatibility			yes
AC coil operating			
Rated AC voltage at 5	50/60Hz	V	24
AC operating voltage			
	of 50/60Hz coil powered at 50Hz		
	pick-up		
	mi		75
	ma	x %Us	115
	drop-out	. 0/11-	20
	mi	n %Us	20

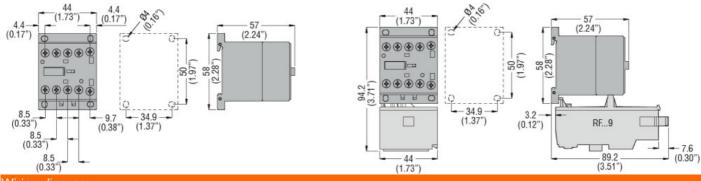


			max	%Us	55
	of 50/60Hz coil p				
		pick-up			
			min	%Us	80
			max	%Us	115
		drop-out			
			min	%Us	20
			max	%Us	55
C average coil consu					
	of 50/60Hz coil p	owered at 50Hz			
			in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil p	owered at 60Hz			
			in-rush	VA	25
	-		holding	VA	3
	of 60Hz coil power	ered at 60Hz			
			in-rush	VA	30
			holding	VA	4
Dissipation 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			
			min	ms	3
			111111	1110	
			max	ms	5
		Opening NC			
		Opening NC			
		Opening NC	max	ms	5
L technical data		Opening NC	max min	ms ms	<ul><li>5</li><li>11</li></ul>
	for three-phase A		max min	ms ms	<ul><li>5</li><li>11</li></ul>
JL technical data Full-load current (FLA)	) for three-phase A(		max min max	ms ms ms	5 11 17
	) for three-phase A		max min	ms ms	<ul><li>5</li><li>11</li></ul>

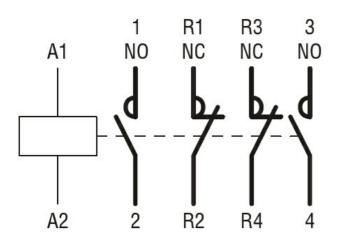


	for single-phase AC motor			
		110/120V	HP	0.5
		230V	HP	1.5
	for three-phase AC motor			
		200/208V	HP	2
		220/230V	HP	3
		460/480V	HP	5
		575/600V	HP	5
General USE				
	Contactor			
		AC current	Α	20
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protection	on			
Pollution degree				3

## Dimensions



## Wiring diagrams



## Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1





**ENERGY AND AUTOMATION** 

Four-pol	le contactor,	AC coil 5	0/60Hz, 24	4VAC, 2N0	D and 2N	1C

	IEC/EN 60947-4-1
	UL 60947-1
	UL 60947-4-1
Certificates	
	CCC
	cULus
	EAC
ETIMA distance (Constitution)	

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching