



Product designation			Power 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			
opolanonal moquelley	min	Hz	25
	max	Hz	400
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)	, ,		
1 1 2 (2 2)	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
	AC-3	W	0.81
Tightening torque for terminals			
	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





ΑW	/G/K	cmi
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	AWG/Kcmil			
		max		12
	Flexible w/o lug conductor section		2	
		min	mm²	0.75
	Elevible about a conductor and the	max	mm²	2.5
	Flexible c/w lug conductor section	min	mm²	1.5
		min	mm²	2.5
	Flexible with insulated spade lug conductor	max max	111111	2.0
	Flexible with insulated spade ldg conducto	min	mm²	1.5
		max	mm²	2.5
		тих		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	182
Conductor section			-	_
	AWG/kcmil conductor section			
		max		12
Auxiliary contact chara	cteristics			
Thermal current Ith			Α	10
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data	D. J. EN/100 40400 4			
Performance level B10	od according to EN/ISO 13489-1	المحمل المحمد		500000
		rated load	cycles	500000
Mirror contate according	og to IEC/EN 600474 4 1	mechanical load	cycles	20000000 YES
EMC compatibility	ng to IEC/EN 609474-4-1			_
AC coil operating				yes
Rated AC voltage at 50	0/60Hz		V	230
AC operating voltage	0,00112		•	
operating voltage	of 50/60Hz coil powered at 50Hz			
	pick-up			
	1 1	min	%Us	75
		max	%Us	115
	drop-out			
		min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
	and the second	max	%Us	115
	drop-out	*	0/11-	20
		min	%Us %Us	20 55
AC average coil consu	umption at 20°C	max	70US	
Ac average con consu	of 50/60Hz coil powered at 50Hz			
	or 50/00112 con powered at 50112	in-rush	VA	30
		mindsii	٧/١	



		Latera	١./٨	
	-	holding	VA	4
	of 50/60Hz coil powered at 60Hz	in ruch	١/٨	0.E
		in-rush	VA VA	25
	of 60Hz coil powered at 60Hz	holding	VA	3
	or ounz coil powered at ounz	in-rush	VA	30
		holding	VA	4
Dissipation at holding	<20°C 50Hz	Holding	W	0.95
Max cycles frequency	-20 O 00112		VV	0.55
Mechanical operation			cycles/h	3600
Operating times			0,0100,11	
Average time for Us co	ontrol			
	in AC			
	Closing NO			
	5.55.m g 5	min	ms	12
		max	ms	21
	Opening NO		-	
	- 19	min	ms	9
		max	ms	18
	Closing NC		-	
	3	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
		max	ms	5
	Opening NC			
		min	ms	11
		max	ms	17
UL technical data				
Full-load current (FLA)) for three-phase AC motor			
		at 480V	Α	7.6
		at 600V	Α	6.1
Yielded mechanical pe				
	for single-phase AC motor			
		110/120V	HP	0.5
	. <u></u>	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



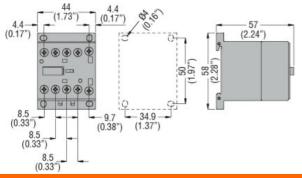
ENERGY AND AUTOMATION

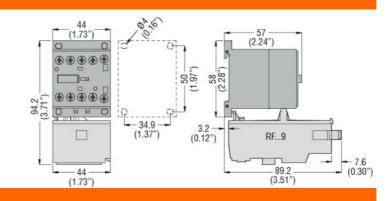
Ambient conditions Temperature Operating temperature °C min -50 °C +70 max Storage temperature °C min -60 °C +80 max Max altitude 3000 m

Resistance & Protection

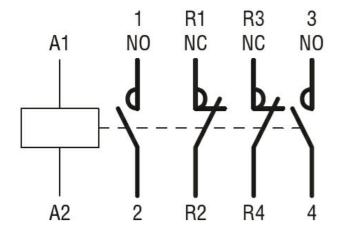
Pollution degree 3

Dimensions





Wiring diagrams



Certifications and compliance

liance

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





FOUR-POLE CONTACTOR, AC COIL 50/60HZ, 230VAC, 2NO AND 2NC