



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			
	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)	710 1 (1001)		•
rated operational power no 1 (1=40 0)	230V	kW	8
	400V	kW	14
	500V	kW	16
	690V	kW	22
Short-time allowable current for 10s (IEC/EN60947-1)	030 V	A	96
		A	90
Protection fuse	O (IEO)	۸	00
	gG (IEC)	A	20
	aM (IEC)	<u>A</u>	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	Ibin	9
Max number of wires simultaneously connectable	IIIAA	Nr.	2
Conductor section		141.	





	AWG/Kcmil			
	, G,	max		12
	Flexible w/o lug conductor section			
	S	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 section	1		
		min	mm²	1.5
		max	mm²	2.5
Power terminal protect	tion according to IEC/EN 60529			IP20 when
				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				
Performance level B10	0d according to EN/ISO 13489-1			
		rated load	cycles	500000
Missas assista assassis		mechanical load	cycles	20000000
	ng to IEC/EN 609474-4-1			YES
EMC compatibility				yes
AC coil operating Rated AC voltage at 50	0/60H7		V	230
AC operating voltage	0/00/12		V	230
AC operating voltage	of 50/60Hz coil powered at 50Hz			
	pick-up			
	ριοκ-αρ	min	%Us	75
		max	%Us	115
	drop-out	παλ	,003	
	a. op 0 a.	min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
	• •	min	%Us	80
		max	%Us	115
	drop-out			
		min	%Us	20
		max	%Us	55

in-rush

of 50/60Hz coil powered at 50Hz

30

AC average coil consumption at 20°C



		holding	VA	4
	of 50/60Hz coil powered at 60Hz	noiding	V/ (·
		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	0.95
Max cycles frequency			ovalaa/b	2000
Mechanical operation Operating times			cycles/h	3600
Average time for Us co	ontrol			
Average time for 03 cc	in AC			
	Closing NO			
	0.009	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			4.0
		min	ms	18
	Opening NO	max	ms	25
	Opening NO	min	ms	2
		max	ms	3
	Closing NC	max		
	3 - 1 - 3	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
70.11		at 600V	Α	6.1
Yielded mechanical pe				
	for single-phase AC motor	440/4001	LID	0.5
		110/120V 230V	HP HP	0.5
	for three-phase AC motor	2307	ПГ	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		2.3,000 1		-
	Contactor			
		AC current	Α	20

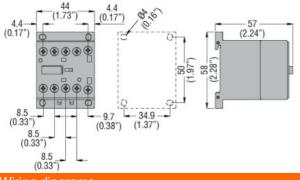


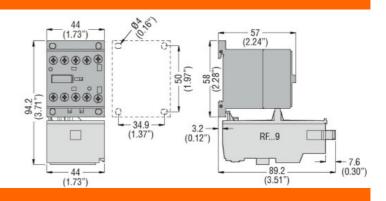
ENERGY AND AUTOMATION

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

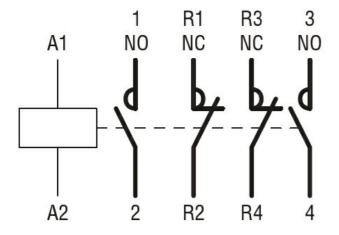
Pollution degree 3

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