



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)			
	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	0 (150)		
	gG (IEC)	A	20
M. I	aM (IEC)	Α	10
Making capacity (RMS value)		Α	92
Breaking capacity at voltage	440)/		70
	440V	A	72
	500V	A	72
Pasiatanas par pala (avaraga valua)	690V	A	72
Resistance per pole (average value)		m?	10
Power dissipation per pole (average value)	146	W	4
	Ith AC3	W	4 0.81
Tightening torque for terminals	A03	VV	0.01
rigintering torque for terminals	min	Nlm	0.0
	min max	Nm Nm	0.8 1
	min	Ibin	9
	max	Ibin	9
Tightening torque for coil terminal	max	10111	
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	lbin	9
Max number of wires simultaneously connectable	max	Nr.	2
max hamber of whoe enfidicationary confidence		. 41.	_







**ENERGY AND AUTOMATION** 

-				
Conductor section				
	AWG/Kcmil			40
	Flovible w/e lug conductor coetion	max		12
	Flexible w/o lug conductor section	min	mm²	0.75
		max	mm²	2.5
	Flexible c/w lug conductor section	max		2.0
	Tionible of Windy confederal coolien	min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section			
	1 3	min	mm²	1.5
		max	mm²	2.5
Power terminal protect	ction 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				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact char	acteristics			
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de				A600
Operating current DC	12		_	
		110V	Α	2.9
Operating current DC	13	0.41.4		
		24V	A	2.9
		48V	A	1.4
		60V 125V	A A	1.1 0.3
		220V	A	0.3
		600V	A	0.6
Operations		000 V		0.0
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data			O y O l O O	000000
	0d according to EN/ISO 13489-1			
T GITGITTIATION TO TO TO TO	100 0000 mily to 214/100 10100 1	rated load	cycles	500000
	me	echanical load	cycles	20000000
Mirror contats accord	ing to IEC/EN 609474-4-1		,	YES
EMC compatibility	3			yes
AC coil operating				•
Rated AC voltage at 6	60Hz		V	120
AC operating voltage				
	of 60Hz coil powered at 60Hz			
	, pick-up			
		min	%Us	75
		max	%Us	115
	drop-out			
		min	%Us	20

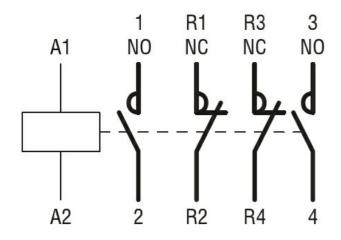


			max	%Us	55
AC average coil consu	mption at 20°C			,,,,,	
Ū	of 50/60Hz coil powe	red at 50Hz			
	•		in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil powe	red at 60Hz			
			in-rush	VA	25
			holding	VA	3
	of 60Hz coil powered	at 60Hz			0.0
			in-rush	VA	30
Dissinction at holding	-20°C E0U-		holding	VA W	4
Dissipation at holding : Max cycles frequency	-20 C 30HZ			VV	0.95
Mechanical operation				cycles/h	3600
Operating times				Cycles/11	3000
Average time for Us co	ontrol				
, wordgo umo for Go oc	in AC				
	<del>.</del>	Closing NO			
		<b>3</b> -	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
	in DC		max	ms	17
	In DC	Closing NO			
		Closing NO	min	ms	18
			max	ms	25
		Opening NO		•	
		-1- 5 -	min	ms	2
			max	ms	3
		Closing NC			
			min	ms	3
			max	ms	5
		Opening NC			
			min	ms	11
III. Control of the Late			max	ms	17
UL technical data	for three phase AC	otor			
Full-load current (FLA)	for three-phase AC mo	otor	ot 400\/	۸	7.0
			at 480V at 600V	A A	7.6 6.1
Yielded mechanical pe	urformance		at 000 v		0.1
riolada medialildai pe	for single-phase AC r	motor			
	isi sirigic priase ACT	110101	110/120V	HP	0.5
			230V	HP	1.5
	for three-phase AC m	notor	2001		
	2 20 p 7.0 11		200/208V	HP	2
			220/230V	HP	3
			460/480V	HP	5



**ENERGY AND AUTOMATION** 

		575/600V	HP	5
General USE				
	Contactor	AC current	Α	20
Ambient conditions		AC current	A	20
Temperature				
·	Operating temperature			
		min	°C	-50
	_	max	°C	+70
	Storage temperature	min	°C	60
		min max	°C	-60 +80
Max altitude		max	m	3000
Resistance & Protecti	on			
Pollution degree				3
Dimensions				
4.4 (1.73") (0.17") (0.17") (0.17") (0.33") (0.33") (0.38") (0.33")	(1.37")	(1.73") (1.73") (1.73") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37")	(2.28")	RF9 7.6 (0.30")
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



## 11BG09T2A12060

FOUR-POLE CONTACTOR, AC COIL 60HZ, 120VAC, 2NO AND 2NC

		_
	Λ	$\sim$
_	н	ι.

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching