



Product designation Product type designation			Power contactor 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
IEC Conventional free air thermal current Ith		Α	20
Operational current le			
	AC-1 (≤40°C)	Α	20
	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)	A	10
Making capacity (RMS value)		Α	92
Breaking capacity at voltage	4.4017	^	70
	440V	A	72
	500V	A	72
Desigtance may note (everyone value)	690V	A	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)	lal.	147	4
	Ith AC3	W W	4 0.81
Tightening torque for terminals	ACS	VV	0.01
rightening torque for terminals	min	Nm	0.0
	max	Nm	0.8 1
	min	Ibin	0.59
	max	Ibin	0.74
Tightening torque for coil terminal	max		• • • • • • • • • • • • • • • • • • •
	min	Nm	0.8
	max	Nm	1
	min	lbft	0.8
	max	lbft	0.74
Max number of wires simultaneously connectable		nr.	2
0 1 1 2			

Conductor section

Flexible w/o lug conductor section



		min	mm²	0.75
		max	mm²	2.5
	Flexible c/w lug conductor section	Παλ	111111	2.3
	Tickibic 6/W lag corradictor section	min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor			
	, and a second of the second	min	mm²	1.5
		max	mm²	2.5
Power terminal protect	ion according to IEC/EN 60529			IP20 when wired
Mechanical features				
Operating position				
		normal		vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	183
Auxiliary contact chara	cteristics			
Type of contact				1 NA
Thermal current Ith			Α	10
IEC/EN 60947-5-1 des	signation			A600
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data				
Performance level B10	d according to EN/ISO 13489-1			
		rated load	cycles	500000
		mechanical load	cycles	20000000
	ng to IEC/EN 609474-4-1			yes
EMC compatibility				Yes
AC coil operating	2/0011 0011			
Rated AC voltage at 50	0/60Hz, 60Hz		.,	4.0
		min	V	12
AC aparating valtage		max	V	575
AC operating voltage	of E0/60Hz goil newgrod at E0Hz			
	of 50/60Hz coil powered at 50Hz pick-up			
	ріск-ир	min	%Us	75
		max	%Us	115
	drop-out	max	,300	
	arop cat	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
AC operating voltage a	at 20°C			
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	30
		holding	VA	4
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	25

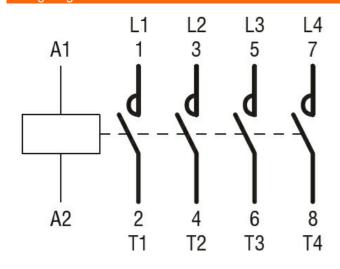


			holding	VA	3
	of 60Hz coil power	red at 60Hz		• • • • • • • • • • • • • • • • • • • •	
			in-rush	VA	30
			holding	VA	4
Dissipation at holding ≤	≤20°C 50Hz			W	0.95
DC coil operating					
DC rated control voltag	je				
			min	V	6
			max	V	480
Average coil consumpt	tion ≤20°C				
			in-rush	W	3.2
			holding	W	3.2
Max cycles frequency					0000
Mechanical operations			(cycles/h	3600
Operating times	-tl				
Average time for Us co					
	in AC	Closing NO			
		Closing NO	min	me	12
			max	ms ms	21
		Opening NO	max	1113	4 I
		opolinig 110	min	ms	9
			max	ms	18
		Closing NC			
		· ·	min	ms	17
			max	ms	26
		Opening NC			
			min	ms	7
			max	ms	17
	in DC	01 1 110			
		Closing NO			40
			min	ms	18 25
		Opening NO	max	ms	25
		Opening NO	min	ms	2
			max	ms	3
		Closing NC	max	5	-
		y -	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	A	7.6
Violated as a start of	wfo.woo.o.w		at 600V	Α	6.1
Yielded mechanical pe		C motor			
	for single-phase A	U 1110101	110/120V	hn	0.5
			110/120V 230V	hp hp	0.5 1.5
	for three-phase AC	? motor	2301	hp	1.0
	ioi iiiiee-piiase At	J IIIUlUI	200/208V	hp	2
			220/230V	hp	3
			460/480V	hp	5
				1	



ENERGY AND AUTOMATION

	575/600V	hp	5
General USE			
Contactor			
	AC current	Α	20
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-40
	max	°C	60
Storage temperature			
	min	°C	-55
	max	°C	70
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3
Dimensions			
4.4 (0.17") (0.17") (0.17") (0.38") (1.37") (2.24") (2.24") (2.34") (2.33") (0.33") (0.33") (1.37") (1.37") (1.37")	44 (1.73") (1.73") (0.12") 44 (1.73") (0.12") (0.12")	(2.28")	8F9 7.6 (0.30")

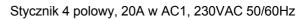


Certifications and compliance Compliance CSA C22.2 n° 60947-1 CSA C22.2 n° 60947-4-1 IEC/EN 60947-1 IEC/EN 60947-4-1 UL 60947-1 UL 60947-4-1

Certificates

CCC cULus







EAC

ETIM 6 classification

EC000066 - Power contactor, AC switching