



Product designation Product type designation			Power contactor BG09
Contact characteristics			BG09
Number of poles		nr.	4
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency		IX V	
Operational requestoy	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	max	A	20
Operational current le			
Operational darrent le	AC-1 (≤40°C)	Α	20
	AC-3 (≤440V ≤55°C)	A	9
	AC-4 (400V)	A	4
Rated operational power AC-1 (T≤40°C)	7.0 + (+007)		
Trailed operational power Ao-1 (1240 O)	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
Protection fuse			30
1 Total Collon 1030	gG (IEC)	Α	20
	aM (IEC)	A	10
Making capacity (RMS value)	aw (ILC)		92
Breaking capacity at voltage			92
breaking capacity at voltage	440V	Α	72
	500V	A	72
	690V	A	72 72
Pacietanea nar pala (averaga valua)	890 V	mΩ	10
Resistance per pole (average value)  Power dissipation per pole (average value)		11177	10
Power dissipation per pole (average value)	lat.	147	4
	Ith AC3	W	4
Tiebtening tourne for tourningle	AC3	VV	0.81
Tightening torque for terminals		Nina	0.0
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.59
The factor for the factor of the sector of	max	lbin	0.74
Tightening torque for coil terminal	. •	N.I	0.0
	min	Nm	0.8
	max	Nm	1
	min	lbft	0.8
	max	lbft	0.74
Max number of wires simultaneously connectable		nr.	2

Conductor section

Flexible w/o lug conductor section



		min	mm²	0.75
		max	mm²	2.5
	Flexible c/w lug conductor section			
	3	min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section			
	, ,	min	mm²	1.5
		max	mm²	2.5
Power terminal protect	tion according to IEC/EN 60529			IP20 when wired
Mechanical features				
Operating position				
	n	ormal		vertical plan
	allo	wable		±30°
Eiving				Screw / DIN rail
Fixing				35mm
Weight			g	181
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	Od according to EN/ISO 13489-1			
	rated	d load	cycles	500000
	mechanica	ıl load	cycles	20000000
Mirror contats according	ng to IEC/EN 609474-4-1			yes
EMC compatibility				Yes
AC coil operating				
Rated AC voltage at 50	0/60Hz, 60Hz			
		min	V	12
		max	V	575
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		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
		max	%Us	115
	drop-out			
		min	%Us	20
		max	%Us	55
AC operating voltage a				
	of 50/60Hz coil powered at 50Hz			
	:	- much	١/٨	20

of 50/60Hz coil powered at 60Hz

in-rush

holding

in-rush

VA

VA

VA

30

4

25



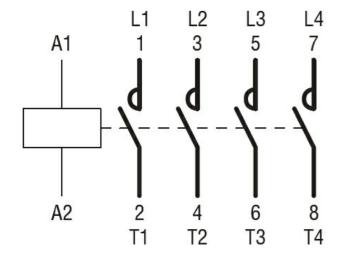
			holding	VA	3
	of 60Hz coil powered	d at 60Hz			
			in-rush	VA	30
			holding	VA	4
Dissipation at holding ≤	≦20°C 50Hz			W	0.95
DC coil operating					
DC rated control voltag	e				
			min	V	6
			max	V	480
Average coil consumpt	ion ≤20°C				
			in-rush	W	3.2
May avalag fraguesia			holding	W	3.2
Max cycles frequency				ay ralaa/b	2000
Mechanical operations				cycles/h	3600
Operating times  Average time for Us co	ntrol				
Average line for 05 co	in AC				
	шдо	Closing NO			
		Closing 140	min	ms	12
			max	ms	21
		Opening NO	max	5	<u> </u>
		5 p 5	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
		On aning NO	max	ms	25
		Opening NO	min	me	2
				ms ms	3
		Closing NC	max	1113	5
		31001119 140	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 m	otor			
			at 480V	Α	7.6
			at 600V	Α	6.1
Yielded mechanical pe					
	for single-phase AC	motor		_	
			110/120V	hp	0.5
			230V	hp	1.5
	for three-phase AC n	notor	000/0001		0
			200/208V	hp	2
			220/230V	hp hp	3
			460/480V	hp	5



**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") (2.24") (2.24") (2.24") (3.31") (0.33") (0				

## Wiring diagrams



## Certifications and compliance

Com	pliand	e:
00111	pnanc	,,

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