



Draduat designation			Auxiliary
Product designation			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
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
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	Α	12
	48V	Α	10
	75V	Α	4
	110V	Α	3
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	Α	15
	48V	Α	14
	75V	Α	9
	110V	A	8
IFO	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	.0.07		40
	≤24V	A	16
	48V	A	16
	75V	A	10
	110V	A	10
IFO was a summand to im DO4 with 1 /D < 4 a section 4 a section 2	220V	Α	2
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	20.07	Α.	4.0
	≤24V	A	16
	48V	A	16
	75V	A	10
	110V	A	10
IEC may current le in DC3-DC5 with L/R < 15ms with 1 noles in se	220V	Α	2

IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series



		≤24V	Α	7	
		48V	Α	6	
		75V	Α	2	
		110V	Α	1	
		220V	Α	_	
IFC max current le in Γ	DC3-DC5 with L/R ≤ 15ms with 2 poles in series	2201	- , ,		
ILO MAX GAITORE TO III L	700 Boo Wall E/TC = Tollio Wall E poloo ili oolloo	≤24V	Α	8	
		48V	A	8	
		75V	A	5	
		110V	A	4	
		220V	A	4 –	
IEC may ourrent to in E	DC3-DC5 with L/R ≤ 15ms with 3 poles in series	220 V	^		
IEC IIIax current le III L	1003-DC3 with L/K = 13ths with 3 poles in series	<24)/	۸	10	
		≤24V	A	10	
		48V	A	10	
		75V	A	6	
		110V	A	5	
· 		220V	Α	0,8	
IEC max current le in D	0C3-DC5 with L/R ≤ 15ms with 4 poles in series				
		≤24V	Α	10	
		48V	Α	10	
		75V	Α	6	
		110V	Α	5	
		220V	Α	0,8	
Short-time allowable cu	urrent 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 vo	ltage				
	-	440V	Α	72	
		500V	Α	72	
		690V	Α	72	
Resistance per pole (av	verage value)		mΩ	10	
Power dissipation per p	,				
	(a. c.age ranas)	Ith	W	4	
		AC3	W	0.8	
Tightening torque for te	erminals	,,,,,	• •	0.0	_
gorig torquo ioi to		min	Nm	0.8	
		max	Nm	1	
		min	Ibin	9	
		max	lbin	9	
Tightening torque for co	oil terminal	max	10111		
riginioning torque for to	on tominal	min	Nm	0.8	
			Nm		
		max min	Ibin	1 0	
				9	
May number of wires of	imultanagusly connectable	max	Ibin Nr.	9	
	multaneously connectable		INI.		
Conductor section	AVAICA (IX a real)				
	AWG/Kcmil			40	
	-	max		12	
	Flexible w/o lug conductor section		=		
		min	mm²	0.8	
		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			
	Tiexible with insulated spade lug conductor section	min	mm²	1.5
		max	mm²	2.5
	ion according to IEC/EN 60529			IP20
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
				Screw / DIN rail
Fixing				35mm
Weight			g	200
Conductor section			9	200
Conductor Section	AVA/O/L and I are a last a second as			
	AWG/kcmil conductor section			
		max		12
Auxiliary contact charac	teristics			
Thermal current Ith			Α	10
IEC/EN 60947-5-1 des	ignation			A600
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data			oy oloo	000000
•	ad according to EN/ISO 12490 1			
renormance level bro	d according to EN/ISO 13489-1			500000
		rated load	cycles	500000
		nechanical load	cycles	20000000
Mirror contats according	g to IEC/EN 609474-4-1			YES
EMC compatibility				YES
AC coil operating				
Rated AC voltage at 60	······································		V	48
AC operating voltage				
1 0 0				
	of 60Hz coil powered at 60Hz			
	of 60Hz coil powered at 60Hz			
	of 60Hz coil powered at 60Hz pick-up	min	0/ I Io	75
	•	min	%Us	75
	pick-up	min max	%Us %Us	75 115
	•	max	%Us	115
	pick-up		%Us %Us	115 20
	pick-up drop-out	max	%Us	115
AC average coil consul	pick-up drop-out	max min	%Us %Us	115 20
AC average coil consul	pick-up drop-out	max min	%Us %Us	115 20
AC average coil consul	pick-up drop-out mption at 20°C	max min	%Us %Us	115 20
AC average coil consul	pick-up drop-out mption at 20°C	max min max	%Us %Us %Us	115 20 55
AC average coil consul	pick-up drop-out mption at 20°C of 50/60Hz coil powered at 50Hz	max min max in-rush	%Us %Us %Us VA	115 20 55 30
AC average coil consul	pick-up drop-out mption at 20°C	max min max in-rush holding	%Us %Us %Us VA VA	115 20 55 30 4
AC average coil consul	pick-up drop-out mption at 20°C of 50/60Hz coil powered at 50Hz	max min max in-rush holding in-rush	%Us %Us %Us VA VA	115 20 55 30 4 25
AC average coil consul	mption at 20°C of 50/60Hz coil powered at 50Hz of 50/60Hz coil powered at 60Hz	max min max in-rush holding	%Us %Us %Us VA VA	115 20 55 30 4
AC average coil consul	pick-up drop-out mption at 20°C of 50/60Hz coil powered at 50Hz	max min max in-rush holding in-rush holding	%Us %Us %Us VA VA	115 20 55 30 4 25 3
AC average coil consul	mption at 20°C of 50/60Hz coil powered at 50Hz of 50/60Hz coil powered at 60Hz	max min max in-rush holding in-rush holding	%Us %Us %Us VA VA VA VA	115 20 55 30 4 25 3
	pick-up drop-out mption at 20°C of 50/60Hz coil powered at 50Hz of 50/60Hz coil powered at 60Hz of 60Hz coil powered at 60Hz	max min max in-rush holding in-rush holding	%Us %Us %Us VA VA VA VA VA	115 20 55 30 4 25 3 30 4
Dissipation at holding ≤	pick-up drop-out mption at 20°C of 50/60Hz coil powered at 50Hz of 50/60Hz coil powered at 60Hz of 60Hz coil powered at 60Hz	max min max in-rush holding in-rush holding	%Us %Us %Us VA VA VA VA	115 20 55 30 4 25 3
	pick-up drop-out mption at 20°C of 50/60Hz coil powered at 50Hz of 50/60Hz coil powered at 60Hz of 60Hz coil powered at 60Hz	max min max in-rush holding in-rush holding	%Us %Us %Us VA VA VA VA VA	115 20 55 30 4 25 3 30 4
Dissipation at holding ≤	pick-up drop-out mption at 20°C of 50/60Hz coil powered at 50Hz of 50/60Hz coil powered at 60Hz of 60Hz coil powered at 60Hz	max min max in-rush holding in-rush holding	%Us %Us %Us VA VA VA VA VA	20 55 30 4 25 3 30 4 0.9
Dissipation at holding ≤ Max cycles frequency	pick-up drop-out mption at 20°C of 50/60Hz coil powered at 50Hz of 50/60Hz coil powered at 60Hz of 60Hz coil powered at 60Hz	max min max in-rush holding in-rush holding	%Us %Us %Us VA	20 55 30 4 25 3 30 4 0.9



Average time for Us co	entrol				
Average time for Us co	in AC				
		Closing NO			
		_	min	ms	12
			max	ms	21
		Opening NO			0
			min max	ms ms	9 18
		Closing NC	IIIdx	1113	10
		0.00g	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			
			min	ms	2
		Olaska NO	max	ms	3
		Closing NC	min	mc	2
			max	ms ms	3 5
		Opening NC	max	1110	· ·
		3 -	min	ms	11
			max	ms	17
UL technical data					
Full-load current (FLA)	for three-phase AC mor	tor	at 480V	۸	7.6
			at 600V	A A	6.1
Yielded mechanical pe	rformance		4.0001	- ' '	0.1
'	for single-phase AC m	notor			
			110/120V	HP	0.5
			230V	HP	1.5
	for three-phase AC mo	otor	000/000		0
			200/208V 220/230V	HP HP	2
			460/480V	HP	3 5
			575/600V	HP	5
General USE					
	Contactor				
-			AC current	Α	20
Short-circuit protection					
	High fault		Chart aircuit aurrant	IcΛ	100
			Short circuit current Fuse rating	kA A	100 30
			Fuse class	Γ	J
	Standard fault				
			Short circuit current	kA	5
Ambient conditions			Fuse rating	Α	30

Ambient conditions

Temperature

Operating temperature



ENERGY	ANID A	MACTILL	ATION

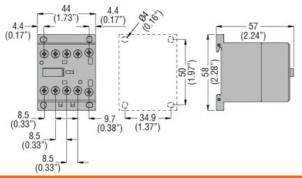
	min	°C	-50
	max	°C	+70
Storage temperature			_
	min	°C	-60
	max	°C	+80
Max altitude		m	3000
Desistance 9 Destection			

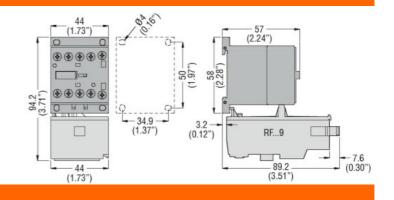
Resistance & Protection

Pollution degree

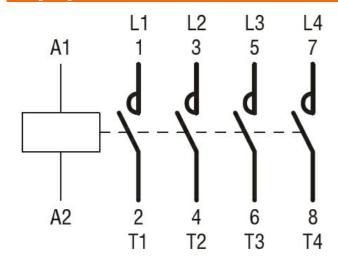
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Dimensions





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

EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching