



		4	
Product designation			Power contactor
Product type designation			BG09
Contact characteristics			2000
Number of poles		nr.	3
		V	
Rated insulation voltage Ui IEC/EN			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	0
	AC-3 (≤440V ≤55°C)	Α	9
	AC-4 (400V)	Α	4
Rated operational power AC-3 (T≤55°C)	7.0 1 (1001)		`
rated operational power 7to 0 (1=00 0)	230V	kW	2.2
	400V	kW	4
	415V	kW	4.3
	440V	kW	4.5
	500V	kW	5
	690V	kW	5
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			
TEO MAX GATTER TO IT BOT WITH ETC = THIS WITH 2 POICS IT SOILES	≤24V	Α	15
	48V	A	14
	75V		
		A	9
	110V	A	8
	220V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	Α	16
	48V	Α	16
	75V	Α	10
	110V	Α	10
	220V	Α	2



IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	16
	48V	Α	16
	75V	Α	10
	110V	Α	10
	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	A	-
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	220 V		
TEC max current le in DC3-DC3 with E/1(≥ 13ms with 2 poles in series	<24)/	۸	0
	≤24V	A	8
	48V	A	8
	75V	Α	5
	110V	Α	4
	220V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	Α	10
	48V	Α	10
	75V	Α	6
	110V	Α	5
	220V	Α	0.8
IEC max current le in DC3-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 current for 10s (IEC/EN60947-1)	220 V	A	96
Protection fuse			30
Florection ruse	aC (IEC)	٨	20
	gG (IEC)	A	20
	aM (IEC)	Α	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
	AC3	W	0.81
Tightening torque for terminals			_
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.59
	max	Ibin	0.74
Tightening torque for coil terminal	Παλ	ווטו	0.17
rightening torque for contentinal	min	Nim	0.0
	min	Nm	0.8
	max	Nm	1
	min	lbft	0.8
	max	lbft	0.74



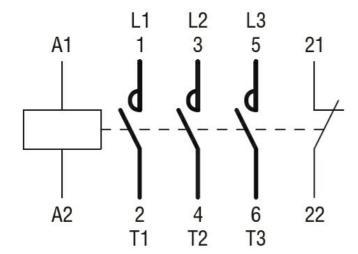
Max number of wires s	imultaneously connectable		nr.	2
Conductor section	•			
	Flexible w/o lug conductor section			
		min	mm²	0.75
		max	mm²	2.5
	Flexible c/w lug conductor section			
		min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor	section		
		min	mm²	1.5
		max	mm²	2.5
	ion according to IEC/EN 60529			IP20 when wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	180
Auxiliary contact chara	cteristics		J	
Type of contact				1 NC
Thermal current Ith			Α	10
IEC/EN 60947-5-1 des	signation			A600 - Q600
Operating current AC1				
		230V	Α	3
		400V	Α	1.9
		500V	Α	1.4
Operating current DC1	2			
		110V	Α	2.9
Operating current DC1	3			
		24V	Α	2.9
		48V	Α	1.4
		60V	Α	1.2
		110V	Α	0.6
		125V	Α	0.55
		220V	Α	0.3
		600V	Α	0.1
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
		mechanical load	cycles	20000000
	ng to IEC/EN 609474-4-1			yes
EMC compatibility				Yes
AC coil operating				
Rated AC voltage at 50	0/60Hz		V	24
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 average coil consu	mption 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 powered at 60Hz	<u> </u>		
		in-rush	VA	30
		holding	VA	4
Dissipation at holding	≤20°C 50Hz		W	0.95
Max cycles frequency				0.00
Mechanical operation			cycles/h	3600
Operating times			0 y 0100/11	0000
Average time for Us co	ontrol			
Average time for 03 of	in AC			
	Closing N	0		
	Closing 14	min	ms	12
		max	ms	21
	Opening I		1110	21
	opoliii g i	min	ms	9
		max	ms	18
	Closing N		1110	10
	0.009	min	ms	17
		max	ms	26
	Opening I			
	Sps.iiig i	min	ms	7
		max	ms	, 17
	in DC	max	0	• •
	Closing N	0		
	5.55.119 14	min	ms	18
		max	ms	25
	Opening I		0	
	- F 5. m · g ·	min	ms	2
				-
				3
	Closina N	max	ms	3
	Closing N	max C	ms	
	Closing N	max C min	ms ms	3
		max C min max	ms	
	Closing N Opening N	max C min max	ms ms ms	3 5
		max C min max NC min	ms ms ms	3 5 11
UL technical data		max C min max	ms ms ms	3 5
UL technical data Full-load current (FLA)	Opening N	max C min max NC min	ms ms ms	3 5 11
		max C min max NC min	ms ms ms	3 5 11

		at 600V	Α	6.1
Yielded mechanical	performance			
	for single-phase AC motor			
	.	110/120V	HP	0.5
		230V	HP	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				
	Contactor			
		AC current	Α	20
Short-circuit protecti	on fuse, 600V			
•	High fault			
	•	Short circuit current	kA	100
		Fuse rating	Α	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	30
Contact rating of aux	kiliary contacts according to UL			A600 - Q600
Ambient conditions	·			
Temperature				
	Operating temperature			
	, ,	min	°C	-50
		max	°C	+70
	Storage temperature			
	, , , , , , , , , , , , , , , , , , ,	min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protect	ction			
Pollution degree				3
Dimensions				
		12 A4 11		
4.4 (1.73") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17")	(2.24") (2.24") (2.24")	3.77.2	(2.28") 5	57 .24")
8.5 (0.33") (0.38 (0.33") (0.38 (0.33")	34.9 ") (1.37")	3.2 (1.37") 3.2 (0.12"	")	RF9 -7.6 (0.30")
Wiring diagrams				





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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