



		4	
Product designation			Power contactor
Product type designation			BG09
Contact characteristics			
Number of poles		nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
- · · · · · · · · · · · · · · · · · · ·		N.V.	0
Operational frequency			0.5
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		A	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)			
	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)	0001		
reactional power Ao-1 (1240 O)	230V	kW	8
	400V	kW	14
	500V	kW	16
	690V	kW	22
IFC many augment to in DC4 with 1/D < 4 may with 4 males in agrice	6907	KVV	
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	2041 /	۸	40
	≤24V	A	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	Α	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	A	2
	220 V	77	_



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			_
The max deficit to in 200 200 with 210 = Tome with 1 poloc in conce	≤24V	Α	7
	48V	A	6
	75V	A	2
	110V	A	1
IFC may augment to in DC2 DC5 with L/D < 45 mg with 2 males in acrise	220V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	.0.0.4		
	≤24V	Α	8
	48V	Α	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	A	5
	220V	A	0.8
Short-time allowable current for 10s (IEC/EN60947-1)	220 V	A	96
Protection fuse			30
r lotection luse	aC (IEC)	Α	20
	gG (IEC)		
Making and its (DMC calca)	aM (IEC)	A	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	lbin	0.74
Tightening torque for coil terminal			
<u> </u>	min	Nm	0.8
	max	Nm	1
	min	lbft	0.8
		Ibit	0.74
	max	וטונ	0.7 7



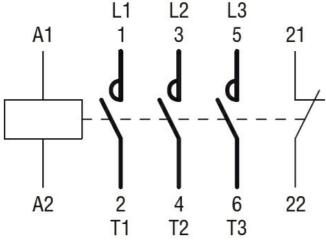
	simultaneously connectable		nr.	2
Conductor section				
	Flexible w/o lug conductor section			
		min	mm²	0.75
		max	mm²	2.5
	Flexible c/w lug conductor section			
		min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor	section		
		min	mm²	1.5
		max	mm²	2.5
	ction according to IEC/EN 60529			IP20 when wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Eiving				Screw / DIN rail
Fixing				35mm
Weight			g	180
Auxiliary contact char	acteristics			
Type of contact				1 NC
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	esignation			A600 - Q600
Operating current AC	-			
-		230V	Α	3
		400V	Α	1.9
		500V	Α	1.4
Operating current DC	12			
- p		110V	Α	2.9
Operating current DC	13	1101	- , ,	2.0
Operating earrorn 20		24V	Α	2.9
		48V	A	1.4
		60V	A	1.2
		110V	A	0.6
		125V	A	0.55
		220V	A	0.3
		600V	A	0.1
Operations		000 V		0.1
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data			Cycles	300000
•	10d according to EN/ISO 12490 1			
renormance level B1	10d according to EN/ISO 13489-1	المحالمة ا	ovolee	E00000
		rated load	cycles	500000
Mirror contate coss	ing to IEC/EN 600474 4 4	mechanical load	cycles	20000000
	ing to IEC/EN 609474-4-1			yes
EMC compatibility	2011			Yes
Rated AC voltage at 6	DUMZ		V	120
AC coil operating				
AC operating voltage				
	of 60Hz coil powered at 60Hz			
	pick-up		0	
		min	%Us	75
		max	%Us	115



		drop-out			
		•	min	%Us	20
			max	%Us	55
AC average coil consul	mption at 20°C				
	of 50/60Hz coil power	ed at 50Hz			
			in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil power	ed at 60Hz			
			in-rush	VA	25
			holding	VA	3
	of 60Hz coil powered	at 60Hz			
			in-rush	VA	30
Disabation of habitan	2000 FOLL		holding	VA	4
Dissipation at holding ≤	520°C 50Hz			W	0.95
Max cycles frequency				a) (a) a a /b	2000
Mechanical operation				cycles/h	3600
Operating times	ntrol				
Average time for Us co					
	in AC	Closing NO			
		Closing NO	min	ms	12
			max	ms	21
		Opening NO	IIIdA	1113	21
		Opening NO	min	ms	9
			max	ms	18
		Closing NC	max	1110	10
		5.55g	min	ms	17
			max	ms	26
		Opening NC			
		, ,	min	ms	7
			max	ms	17
	in DC				
		Closing NO			
			min	ms	18
			max	ms	25
		Opening NO			
			min	ms	2
		01 1 110	max	ms	3
		Closing NC			
			min	ms	3
		Onanina NC	max	ms	5
		Opening NC	min	mo	11
			min max	ms ms	17
UL technical data			IIIdA	1115	17
Full-load current (FLA)	for three-phase AC mo	otor			
Tull load culterit (LEA)	ioi tilice phase Ao ilio	noi	at 480V	Α	7.6
			at 600V	A	6.1
Yielded mechanical per	rformance		at 000 V	,,	<u> </u>
siaca modiamodi poi	for single-phase AC n	notor			
	ioi oiligio pilase Ao II	110101	110/120V	HP	0.5
			230V	HP	1.5
	for three-phase AC m	otor	200 1	<u> </u>	
		-	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 protection fuse, 600V	1.0 0.0			
High fault				
- ng// laan	Short circuit current	kA	100	
	Fuse rating	A	30	
	Fuse class		J	
Standard fault	. 465 6,466			
Startaara radit	Short circuit current	kA	5	
	Fuse rating	A	30	
Contact rating of auxiliary contacts according to UL	r use rating		A600 - Q60	<u> </u>
Ambient conditions			A000 - Q00	,0
Temperature				
Operating temperature	min	°C	-50	
	max	°C	-50 +70	
Ctorogo tomporatura	Illax		+70	
Storage temperature	min	°C	60	
	min	°C	-60	
May altituda	max		+80	
Max altitude		m	3000	
Resistance & Protection				
Pollution degree			3	
Dimensions				
4.4 (0.17") (0.17") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33")	44 (1.73") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37")	(5.28")	57 .24") RF9 89.2 (3.51")	7.6 (0.30")
in an exercise or their				
L1 L2 L3				
Δ1 1 3 5 21				







Stycznik 3 polowy, 9A w AC3, wbudowany zestyk 1NC, 120VAC 60Hz

Certifications and co	mpliance
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