

	-
	3 3 10 Al
9K II	BOOPIOA 10
3 3	3 3 4 AZ

Product designation Product type designation			Power contactor BG09
Contact characteristics			
Number of poles		nr.	3
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		А	20
Operational current le			
	AC-1 (≤40°C)	А	20
	AC-1 (≤55°C)	А	0
	AC-3 (≤440V ≤55°C)	А	9
	AC-4 (400V)	А	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)			
	230V	kW	8
	400V	kW	14
	500V	kW	16
	690V	kW	22
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series			
	≤24V	А	12
	48V	А	10
	75V	А	4
	110V	А	3
	220V	Α	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	А	15
	48V	А	14
	75V	А	9
	110V	А	8
	220V	Α	_
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	А	16
	48V	А	16
	75V	А	10
	110V	А	10
	220V	А	2



IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series				
•	≤24V	А	16	
	48V	А	16	
	75V	А	10	
	110V	A	10	
	220V	A	2	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	2201		-	
	≤24V	А	7	
	48V	A	6	
	48V 75V	A	2	
	110V			
		A	1	
IFO many surrout to in DO2 DO5 with 1/D < 45mm with 2 motors in sortion	220V	A	_	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series	- O () (
	≤24V	A	8	
	48V	А	8	
	75V	А	5	
	110V	А	4	
	220V	А	-	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series				
	≤24V	А	10	
	48V	А	10	
	75V	А	6	
	110V	А	5	
	220V	А	0,8	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series			-) -	
	≤24V	А	10	
	48V	A	10	
	48V 75V	A	6	
	110V	A	5	
	220V	A	0,8	
Short-time allowable current for 10s (IEC/EN60947-1)	220 V	A	96	
Protection fuse		~	90	
Frotection fuse		٨	20	
	gG (IEC)	A	20	
	aM (IEC)	A	10	
Making capacity (RMS value)		A	92	
Breaking capacity at voltage		-		
	440V	A	72	
	500V	A	72	
	690V	A	72	
Resistance per pole (average value)		mΩ	10	
Power dissipation per pole (average value)				
	lth	W	4	
	AC3	W	0.81	
Tightening torque for terminals				
	min	Nm	0.8	
	max	Nm	1	
	min	Ibin	0.59	
	max	Ibin	0.74	
Tightening torque for coil terminal				
	min	Nm	0.8	
	max	Nm	1	
	min	lbft	0.8	
		lbft		
	max	ווטו	0.74	



Max number of wires simultaneously connectable 2 nr. Conductor section Flexible w/o lug conductor section 0.75 min mm² max mm² 2.5 Flexible c/w lug conductor section min mm² 1.5 mm² 2.5 max Flexible with insulated spade lug conductor section 1.5 min mm² max mm² 2.5 Power terminal protection according to IEC/EN 60529 IP20 when wired Mechanical features Operating position vertical plan normal ±30° allowable Screw / DIN rail Fixing 35mm Weight 182 g Auxiliary contact characteristics 1 NC Type of contact Thermal current Ith А 10 IEC/EN 60947-5-1 designation A600 - Q600 **Operating current AC15** 3 230V А 400V А 1.9 500V А 1.4 Operating current DC12 110V А 2.9 Operating current DC13 24V А 2.9 48V А 1.4 60V А 1.2 110V А 0.6 125V А 0.55 220V А 0.3 600V А 0.1 Operations 20000000 Mechanical life cycles Electrical life 500000 cycles Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 20000000 mechanical load cycles Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility Yes AC coil operating Rated AC voltage at 50/60Hz V 230 AC operating voltage of 50/60Hz coil powered at 50Hz pick-up %Us 75 min %Us 115 max

11BG0901A230



11BG0901A230 Eigenschaften Minischütz, BG0901A, 3P+1Ö, 9A AC3, 230V 50/60HZ

Eigenschaften	Minischütz,	BG0901A,	3P+1Ö	, 9A AC	3, 230V	50/60HZ
drop-out						

		drop-out			
		-	min	%Us	20
			max	%Us	55
	of 50/60Hz coil r	powered at 60Hz			
		pick-up			
		Prost of	min	%Us	80
			max	%Us	115
		drop-out	max	/003	110
		diop-out	min	%Us	20
			min		
			max	%Us	55
AC average coil cons					
	of 50/60Hz coil p	powered at 50Hz			
			in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil p	powered at 60Hz			
			in-rush	VA	25
			holding	VA	3
	of 60Hz coil pow	vered at 60Hz			
			in-rush	VA	30
			holding	VA	4
Discipation at holding	<20°C 50U-		noiuirig	W	0.95
Dissipation at holding				VV	0.95
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us of	control				
	in AC				
		Closing NO			
		-	min	ms	12
			max	ms	21
		Opening NO		-	
		oponing ito	min	ms	9
			max	ms	18
			max	1115	10
		Closing NC			47
			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
			max	ms	3
		Closing NC	max	1115	5
		Closing NC	•		2
			min	ms	3
			max	ms	5
		Opening NC			
			min	ms	11
			max	ms	17
UL technical data					
Full-load current (FLA) for three-phase A	C motor			
			at 480V	А	7.6
			ai 400 V	A	1.0

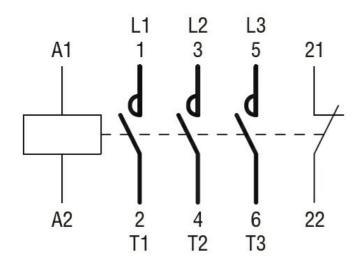


Eigenschaften Minischütz, BG0901A, 3P+1Ö, 9A AC3, 230V 50/60HZ at 600V A 6.1

	at 600V	А	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	А	20
Short-circuit protection fuse, 600V			
High fault			
<u> </u>	Short circuit current	kA	100
	Fuse rating	A	30
	Fuse class		J
Standard fault			-
	Short circuit current	kA	5
	Fuse rating	A	30
Contact rating of auxiliary contacts according to UL			A600 - Q600
Ambient conditions			
Temperature			
Operating temperature			
operating temperature	min	°C	-40
	max	°Č	60
Storage temperature		•	
otorago tomporataro	min	°C	-55
			00
	max	О°	70
Max altitude	max	°C	70
Max altitude Resistance & Protection	max	°C m	70 3000
Resistance & Protection	max		3000
Resistance & Protection Pollution degree	max		
Resistance & Protection Pollution degree Dimensions			3000
Resistance & Protection Pollution degree		m	3000

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