



		4	
Product designation			Power contactor
Product type designation			BG09
Contact characteristics			DO00
		ro r	2
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		Α	20
Operational current le			
•	AC-1 (≤40°C)	Α	20
	AC-1 (≤55°C)	Α	18
	AC-1 (≤70°C)	Α	15
	AC-1 (<u>≤</u> 70 C) AC-3 (≤440V ≤55°C)	A	9
D. () () () () () () () () () (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)			
, , , ,	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	000 V	1000	
ILC max current le in DCT with L/N 2 mis with 1 poles in series	~24\ /	۸	10
	≤24V	A	12
	48V	A	10
	75V	Α	4
	110V	Α	3
	220V	A	
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			
2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	≤24V	Α	16
	48V	A	16
	75V	A	10
	75V 110V		
	1100	Α	10



ENERGY AND AUTOMATION

	220V	Α	2
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	220 V		
120 max current to in 201 with 2/1 = 1m3 with 4 poles in 3ches	≤24V	Α	16
	48V	A	16
	75V	A	10
	110V	Α	10
	220V	A	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	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤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	Α	5
	220V	Α	0,8
Short-time allowable current 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 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	Ibin	0.59
	max	Ibin	0.74
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbft	0.8



ENERGY AND AUTOMATION

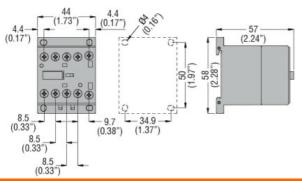
	max	lbft	0.74
Max number of wires simultaneously connectable		nr.	2
Conductor section			
Flexible w/o lug conductor section			
	min	mm²	0.75
	max	mm²	2.5
Flexible c/w lug conductor section			
	min	mm²	1.5
=	max	mm²	2.5
Flexible with insulated spade lug conductors		•	
	min	mm²	1.5
Device to recipie all protections according to IFO/FN COFOO	max	mm²	2.5
Power terminal protection according to IEC/EN 60529			IP20 when wired
Mechanical features Operating position			
Operating position	normal		vertical plan
	normal allowable		vertical plan ±30°
	allowable		Screw / DIN rail
Fixing			35mm
Weight		g	224
Auxiliary contact characteristics		3	· ·
Type of contact			1 NC
Thermal current Ith		Α	10
IEC/EN 60947-5-1 designation			A600 - Q600
Operating current AC15			
	230V	Α	3
	400V	Α	1.9
	500V	Α	1.4
Operating current DC12			
	110V	Α	2.9
Operating current DC13			
	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 Machanical life		a, : -1 · ·	20000000
Mechanical life		cycles	20000000 500000
Electrical life		cycles	500000
Safety related data Performance level R10d according to EN/ISO 13489-1			
Performance level B10d according to EN/ISO 13489-1	rated load	cycles	500000
	mechanical load	cycles cycles	2000000
Mirror contats according to IEC/EN 609474-4-1	moonamoa lodu	Oy OlG3	yes
EMC compatibility			Yes
DC coil operating			100
DC rated control voltage		V	24
DC operating voltage		v	
pick-up			
γιοις αρ	min	%Us	75
	max	%Us	115

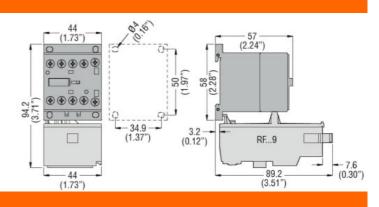


ENERGY AND AUTOMATION				
	- Inches de			
	drop-out	min	0/116	10
		min	%Us %Us	10 25
Average coil consump	tion <20°C	max	7005	25
Average con consump	1011 320 C	in-rush	W	3.2
		holding	W	3.2
Max cycles frequency		Holaing	• • • • • • • • • • • • • • • • • • • •	0.2
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us co	ontrol			
	in AC			
	Closing NO			
		min	ms	12
		max	ms	21
	Opening NO			
		min	ms	9
	0	max	ms	18
	Closing NC			47
		min	ms	17
	Opening NC	max	ms	26
	Opening NC	min	ms	7
		max	ms	, 17
	in DC	max	1110	17
	Closing NO			
	5.55mg	min	ms	18
		max	ms	25
	Opening NO			
		min	ms	2
		max	ms	3
	Closing NC			
		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 motor			
		at 480V	A	7.6
Valle I and a dealer		at 600V	A	6.1
Yielded mechanical pe				
	for single-phase AC motor	440/420\/	UD	0.5
		110/120V	HP	0.5
	for three-phase AC motor	230V	HP	1.5
	ioi iiiiee-piiase AO iiioioi	200/208V	HP	2
		200/200V 220/230V	HP	3
		460/480V	HP	5
		575/600V	HP	5
General USE		31 0/000 V		
	Contactor			
		AC current	Α	20
Short-circuit protection	fuse, 600V			
•	High fault			
	-			



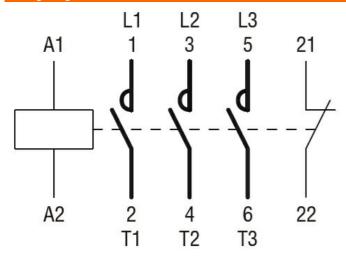
	Short circuit current	kA	100
	Fuse rating	Α	30
	Fuse class		J
Standard fault			
	Short circuit current	kA	5
	Fuse rating	Α	30
Contact rating of auxiliary contacts according to UL			A600 - Q600
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-40
	max	°C	60
Storage temperature			
	min	°C	-55
	max	°C	70
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3





Wiring diagrams

Dimensions



UL 60947-4-1

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

Certificates





Eigenschaften Minischütz, BG0901D, 3P+1Ö, 9A AC3, 24VDC

CCC			
cULus			
EAC			

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching