



Product designation Product type designation			Power contactor 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-1 (≤55°C)	Α	18
	AC-1 (≤70°C)	Α	15
	AC-3 (≤440V ≤55°C)	Α	9
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
150	220V	A	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	40 AV /		4.5
	≤24V	A	15
	48V	A	14
	75V	A	9
	110V	A	8
IFC many commant to im DC4 with L/D < 4 may with 2 males in parish	220V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	<0.417	۸	10
	≤24V	A	16
	48V 75V	A A	16 10
	110V	A	10
	220V	A	2
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	2200	^	
ILO max ounch le in DOT with L/N > 11115 with 4 poles in selles	≤24V	Α	16
	≤24∨ 48V	A	16
	75V	A	10
	110V	A	10
	220V	A	2
	220 V	^	_



IEC max current le in D	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 D	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 D	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 co	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	·			
0 1 7	G	440V	Α	72
		500V	Α	72
		690V	Α	72
Resistance per pole (a	verage value)		mΩ	10
Power dissipation per p				_
	,	Ith	W	4
		AC-3	W	0.81
Tightening torque for te	erminals			
		min	Nm	0.8
		max	Nm	1
		min	Ibin	9
		max	Ibin	9
Tightening torque for co	oil terminal			
-		min	Nm	0.8
		max	Nm	1
		min	Ibin	9
		max	Ibin	9
Max number of wires s	imultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		12
	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 cor		2	4.5
		min	mm² mm²	1.5 2.5
		max	mm-	IP20 when
Power terminal protect	tion according to IEC/EN 60529			properly wired
Mechanical features				, , ,
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	183
Conductor section				
	AWG/kcmil conductor section			40
Auviliant contest share	otoriotico	max		12
Auxiliary contact chara Thermal current Ith	CLEHSLICS		Α	10
IEC/EN 60947-5-1 des	signation			A600
Operations	signation			Addo
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data				
Performance level B10	Od according to EN/ISO 13489-1			
		rated load	cycles	500000
		mechanical load	cycles	20000000
	ng to IEC/EN 609474-4-1			yes
EMC compatibility AC coil operating				yes
Rated AC voltage at 50	0/60Hz		V	230
AC operating voltage	0,00112		•	200
rio operaning remage	of 50/60Hz coil powered at 50Hz			
	, pick-up			
		min	%Us	75
			,	
		max	%Us	115
	drop-out	max	%Us	115
	drop-out	max min	%Us %Us	11520
	·	max	%Us	115
	of 50/60Hz coil powered at 60Hz	max min	%Us %Us	11520
	·	max min max	%Us %Us %Us	115 20 55
	of 50/60Hz coil powered at 60Hz	max min	%Us %Us	11520
	of 50/60Hz coil powered at 60Hz	max min max min	%Us %Us %Us	115 20 55 80
	of 50/60Hz coil powered at 60Hz pick-up	max min max min	%Us %Us %Us %Us %Us %Us %Us	115 20 55 80 115 20
	of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max	%Us %Us %Us %Us %Us	115 20 55 80 115
AC average coil consu	of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min min max	%Us %Us %Us %Us %Us %Us %Us	115 20 55 80 115 20
AC average coil consu	of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max	%Us %Us %Us %Us %Us %Us %Us %Us	115 20 55 80 115 20 55
AC average coil consu	of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max min max in-rush	%Us	115 20 55 80 115 20 55
AC average coil consu	of 50/60Hz coil powered at 60Hz pick-up drop-out Imption at 20°C of 50/60Hz coil powered at 50Hz	max min max min max min max	%Us %Us %Us %Us %Us %Us %Us %Us	115 20 55 80 115 20 55
AC average coil consu	of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max min max in-rush	%Us	115 20 55 80 115 20 55

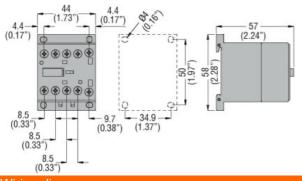


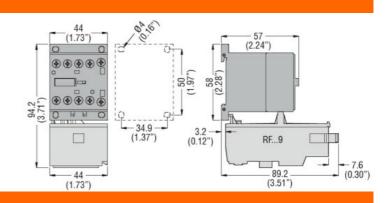
		le a l'eller e	\	0
	of 60Hz coil powered at 60Hz	holding	VA	3
	of 60H2 coil powered at 60H2	in-rush	VA	30
		holding	VA	4
Dissipation at holding :	≤20°C 50Hz	Holding	W	0.95
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us co	ontrol			
	in AC			
	Closing NO			
		min	ms	12
	0	max	ms	21
	Opening NO			0
		min	ms	9
	Closing NC	max	ms	18
	Closling NC	min	ms	17
		max	ms	26
	Opening NC	max	1110	20
	G pog	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			•
		min	ms	3
	Opening NC	max	ms	5
	Opening NC	min	ms	11
		max	ms	17
UL technical data		Пах	1113	17
	for three-phase AC motor			
- ' (- ')	•	at 480V	Α	7.6
		at 600V	Α	6.1
Yielded mechanical pe	rformance			
•	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
Conoral LISE		575/600V	HP	5
General USE	Contactor			
	Contactor	AC current	Α	20
Short-circuit protection	fuse 600V	AC current	^	20
Onon-onoun protection	High fault			
	i ligit tadit	Short circuit current	kA	100
		Short circuit current	rv-1	100



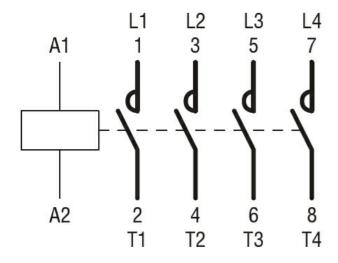
		Fuse rating	Α	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	30
		Fuse class		RK5
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protect	ion			
Pollution degree				3
Dimonoiono				

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



11BG09T4A230

MINISCHÜTZ, BG09T4A, 4P (4S), 20A AC1, 230V 50/60HZ

CCC			
cULus			
EAC			

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching