



Product designation Product type designation			Power contactor BG09
Contact characteristics			
Number of poles		nr.	4
Rated insulation voltage Ui		V	690
Rated impulse withstand voltage Uimp		kV	6
Operating frequency			
	Operational frequency min	Hz	25
	Operational frequency max	Hz	400
Conventional free air thermal current Ith		Α	20
Operating current			
	Operational current AC1 (≤40°C)	Α	20
(Operational current AC3 (≤440V ≤55°C)	Α	9
	Operational current AC4 (400V)	Α	4
Rated operational power AC1 (T≤40°C)			
		kW	8
	400V	kW	14
	500V	kW	16
	690V	kW	22
Rated operational power AC3A (T≤55°C)			
Ra	ated operational power AC3 (T≤55°C) 230V	kW	2.2
	ated operational power AC3 (T≤55°C) 400V		4
Ra	ated operational power AC3 (T≤55°C) 415V	kW	4.3
Ra	ated operational power AC3 (T≤55°C) 440V	kW	4.5
Ra	ated operational power AC3 (T≤55°C) 500V	kW	5
Ra	ated operational power AC3 (T≤55°C) 690V	kW	5
Short-time allowable current for 10s (IEC/EN60947-1)			96
Protection fuse			
	gG (IEC)	Α	20
	aM (IEC)	Α	10
Making capacity (RMS value)		Α	92
Breaking capacity at voltage			
	Breaking capacity 440V	Α	72
	Breaking capacity 500V	Α	72
	Breaking capacity 690V	Α	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
Po	wer dissipation pole (average value) Ith	W	4
	AC3	W	0.81
Tightening torque for terminals			
		Nm	0.8
		Nm	1
		lbft	0.59
	max	lbft	0.74

Tightening torque for coil terminal



		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
		max	lbft	0.74
max number of wires simultaneously connectable			nr.	2
Conductor section				
	AWG			
		min		18
		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 conductor section	n		
		min	mm²	1.5
		max	mm²	2.5
	tion according to IEC/EN 60529			IP20 when wired
Auxiliary contact chara				
Operational current AC			Α	20
Operating current DC1	3			
		110V	Α	Screw / DIN rail 35mm
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-40
		max	°C	60
	Storage temperature			
		min	°C	-55
		max	°C	70
Max altitude			m	3000
Operating position				
		normal		Vertical plan
		allowable		±30°
Mounting				Screw / DIN rail 35mm
Weight			g	0.183
Operations				
Mechanical life			Cycles	20000000
Electrical life			Cycles	500000
Safety related data				
Performance level B10	Od according to EN/ISO 13489-1			
		rated load	Cicli	500000
		mechanical load	Cicli	20000000
Mirror contats according	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		m:-	0/110	0.75

%Us

min

0.75



	max	%Us	1.15
drop-out			
	min	%Us	0.2
. (50/00LL	max	%Us	0.55
of 50/60Hz coil powered at 60Hz			
pick-up	min	%Us	0.8
	max	%Us	1.15
drop-out		,,,,,	
· ·	min	%Us	0.2
	max	%Us	0.55
of 60Hz coil powered at 60Hz			
pick-up			
	min	%Us	0.75
	max	%Us	1.15
drop-out		0/11-	0.2
	min	%Us %Us	0.2 0.55
AC operating voltage	max	/oUS	0.00
of 50/60Hz coil powered at 50Hz			
01 00/001 12 0011 powered at 301 12	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			
	in-rush	VA	30
·	holding	VA	4
Dissipation at holding ≤20°C 50Hz		W	0.95
DC coil operating			
DC rated control voltage	may	V	480
DC operating voltage	max	V	400
Average coil consuption ≤20°C			
Average con consuption =20 C	in-rush	W	3.2
	holding	W	3.2
Max cycles frequency			U.
Mechanical operations		Cycles/h	3600
Operating times			
Average time for Us control			
in AC			
Closing NO			
	min	ms	12
	max	ms	21
Opening NO			0
	min	ms	9
Closing NC	max	ms	18
Closing NC	min	ms	17
	max	ms	26
Opening NC	max	0	_5
- F	min	ms	7
	max	ms	17
UL technical data			



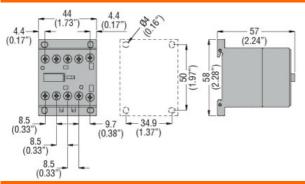
ENERGY AND AUTOMATION

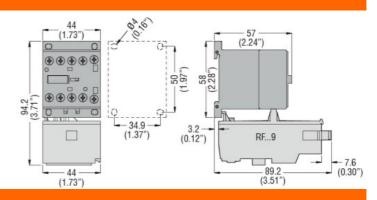
at 480V	Α	7.6	
at 600V	Α	6.1	
Yielded mechanical performance			
for single-phase AC motor			
at 110/120V	hp	0.5	
at 230V	hp	1.5	
for three-phase AC motor			
at 200/208V	hp	2	
at 220/230V	hp	3	
at 460/480V	hp	5	
at 575/600V	hp	5	

General USE

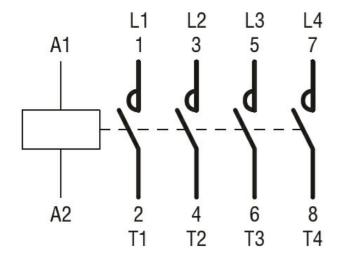
Contactor

AC current Α 20 Other features Pollution degree 3 **Dimensions**





Wiring diagrams



Certifications and compliance

Certifications

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

Compliance





FOUR-POLE CONTACTOR, AC COIL 50/60HZ, 230VAC

CCC			
cULus	 _	_	
FAC			

ETIM 6 classification

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EC000066 - Power contactor, AC switching