electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 24VDC, 1NO **AUXILIARY CONTACT**

ENERGY AND AUTOMATION



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
Operational frequency	IX V	
· ·	LJ	25
min	Hz	
Consequence of the arrival assessed to the UEC/EN	Hz	400
Conventional free air thermal current Ith IEC/EN	Α	20
Operational current le	_	
AC-1 (≤40°C)	Α	20
AC-3 (≤440V ≤55°C)	Α	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
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
Short-time allowable current for 10s (IEC/EN60947-1)	A	96
Protection fuse		- 50
	۸	20
gG (IEC)	A	20
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)		
Power dissipation pole (average value) Ith	W	4
AC3	W	0.81
Tightening torque for terminals		
min	Nm	0.8
max	Nm	1
min	lbft	0.59
max	lbft	0.74
Tightening torque for coil terminal	1511	J.1 T



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		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
Max number of wires o	imultanaayah cannaatahla	max	Ibft	0.74
Conductor section	imultaneously connectable		nr.	
Conductor Section	AWG			
	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 cond	ductor section		
		min	mm²	1.5
		max	mm²	2.5
	ion according to IEC/EN 60529			IP20 when wired
Auxiliary contact chara	cteristics			
Type of contact				1 NO
Thermal current Ith	to call to		Α	10
IEC/EN 60947-5-1 des			Δ.	A600 - Q600
Operational current le			Α	20
Operating current AC1	5	2201/	۸	2
		230V 400V	A A	3 1.9
		500V	A	1.4
Operating current DC1	2	300 (
Operating defrent Do i	_	110V	Α	2.9
Operating current DC1	3			
operating content of		24V	Α	2.9
		48V	Α	1.4
		60V	Α	1.1
		110V	Α	Screw / DIN rail 35mm
		125V	Α	0.3
		220V	Α	0.1
		600V	Α	0.6
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-40
	-	max	°C	60
	Storage temperature		0.0	
		min	°C	-55 -70
Max altitude		max		70 3000
Operational position			m	3000
Operational position		Operating position normal		Vertical plan
		Operating position allowable		±30°
		Sparating position allowable		Screw / DIN rail
Mounting				35mm
Weight			g	0.22
				



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Operations			
Mechanical life		Cycles	20000000
Electrical life		Cycles	500000
Safety related data		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Performance level B10d according to EN/ISO) 13489-1		
Ç	rated load	Cicli	500000
	mechanical load	Cicli	20000000
Mirror contats according to IEC/EN 609474-4-	-1		yes
EMC compatibility			yes
DC coil operating			
DC rated control voltage			
	min	V	6
	max	V	480
DC operating voltage			
pick-up			
	min	%Us	0.75
	max	%Us	1.15
drop-out			
	min	%Us	0.1
Average asil assessed as 20000	max	%Us	0.25
Average coil consuption ≤20°C		147	2.0
	in-rush	W	3.2
May avalog fraguency	holding	W	3.2
Max cycles frequency Mechanical operations		Cycles/h	3600
Operating times		Cycles/II	3600
Average time for Us control			
in AC			
117.00	Closing NO		
	min	ms	12
	max	ms	21
	Opening NO		
	min	ms	9
	max	ms	18
in DC			
	Closing NO		
	min	ms	18
	max	ms	25
	Opening NO		_
	min	ms	2
	max	ms	3
JL technical data			
	otor		7.0
Full-load current (FLA) for three-phase AC mo			7.6
-uil-load current (FLA) for three-phase AC mc	at 480V	A	
	at 480V at 600V	A	6.1
/ielded mechanical performance for	at 600V		
	at 600V	A	6.1
/ielded mechanical performance for	at 600V motor Yielded mechanical performance at 110/12	A 20V hp	0.5
/ielded mechanical performance for for single-phase AC n	at 600V motor Yielded mechanical performance at 110/12 Yielded mechanical performance at 230V	A	6.1
/ielded mechanical performance for	at 600V motor Yielded mechanical performance at 110/12 Yielded mechanical performance at 230V motor	A 20V hp hp	0.5 1.5
rielded mechanical performance for for single-phase AC n	motor Yielded mechanical performance at 110/12 Yielded mechanical performance at 230V notor Yielded mechanical performance at 200/20	A 20V hp hp 08V hp	0.5 1.5
Yielded mechanical performance for for single-phase AC n	at 600V motor Yielded mechanical performance at 110/12 Yielded mechanical performance at 230V motor	A 20V hp hp 08V hp 80V hp	0.5 1.5

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Contact rating of auxiliary contacts according to UL A600 - Q600

General USE

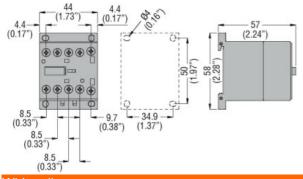
Contactor

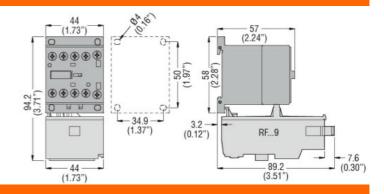
AC current Α 20

Other features

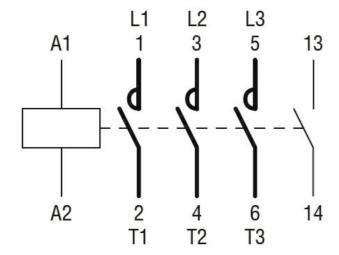
Pollution degree 3

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

CCC

cULus

EAC

ETIM 6 classification

EC000066 - Power contactor, AC switching