ENERGY AND AUTOMATION

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



Product designation Power contactor
Product type designation BG09

Contact characteristics

Number of poles Nr. 3

Pated insulation voltage Lii JEC/EN

Number of poles		INI.	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-3 (=440V =55°C)	Α	9
	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			
	=24V	Α	12
	48V	Α	10
	75V	Α	4
	110V	Α	3
	220V	Α	_
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			
	=24V	Α	16
	48V	Α	16
	75V	Α	10
	110V	Α	10



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	220V	Α	2
IEC max current le in DC1 with L/R = 1ms with 4 poles in series			
	=24V	Α	16
	48V	Α	16
	75V	Α	10
	110V	Α	10
	220V	Α	2
IEC max current le in DC3-DC5 with L/R = 15ms with 1 poles in series			
	=24V	Α	7
	48V	A	6
	75V	A	2
	110V	A	1
	220V	A	
IFC may current to in DC2 DC5 with L/D. 15mg with 2 notes in parion	220 V		
IEC max current le in DC3-DC5 with L/R = 15ms with 2 poles in series	0.41/	۸	0
	=24V	A	8
	48V	A	8
	75V	A	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)	aivi (ILO)	A	92
Breaking capacity at voltage			J2
Droaming capacity at voltage	440V	٨	72
		A	
	500V	A	72 72
Desigtance may note (average vertice)	690V	A	72
Resistance per pole (average value)		m?	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	lbin	9
	max	lbin	9
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9



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		may	lhin	0
Max number of wires	simultaneously connectable	max	Ibin Nr.	2
Conductor section	Simultaneously connectable		INI.	
Conductor Scotlon	AWG/Kcmil			
	, tri Girtoniii	max		12
	Flexible w/o lug conductor section			
	3	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
-	ction according to IEC/EN 60529			IP20 when wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	220
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact char	acteristics			
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de				A600 - Q600
Operating current AC	15	0001/		
		230V	A	3
		400V 500V	A A	1.9 1.4
Operating current DC	12	300 V	^	1.4
Operating current DC	12	110V	Α	2.9
Operating current DC	12	1100		2.9
Operating current bo		24V	Α	2.9
		48V	A	1.4
		60V	A	1.2
		110V	A	0.6
		125V	Α	0.55
		220V	Α	0.3
		600V	Α	0.1
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	cycles	500000
		mechanical load	cycles	20000000
-	ing to IEC/EN 609474-4-1			yes
EMC compatibility				yes
DC coil operating				0.4
DC rated control volta	ige		V	24



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DC operating voltage					
	pick-up				
			min	%Us	75
			max	%Us	115
	drop-out				
	·		min	%Us	10
			max	%Us	25
Average coil consump	tion =20°C				
·			in-rush	W	3.2
			holding	W	3.2
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times				0,0100/11	
Average time for Us co	ontrol				
Average time for 05 of	in AC				
	III AO	Closing NO			
		Closing NO	min	ms	12
		Opening NO	max	ms	21
		Opening NO	min	 .	0
			min	ms	9
		Olasia a NO	max	ms	18
		Closing NC			47
			min	ms	17
		0 . 10	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			
			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	AC motor			
,			at 480V	Α	7.6
			at 600V	Α	6.1
Yielded mechanical pe	erformance				
,	for single-phase	e AC motor			
			110/120V	HP	0.5
			230V	HP	1.5
	for three-phase	AC motor	200 V		
	ioi tinee phase	7.6 motor	200/208V	HP	2
			220/230V	HP	3
			460/480V	nr HP	
				HP HP	5 5
			575/600V		



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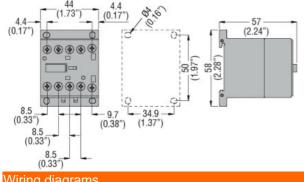
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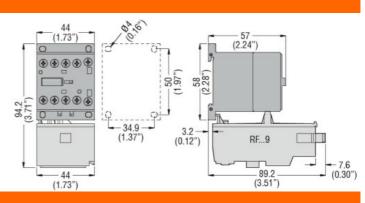
Contactor

		AC current	Α	20
Short-circuit prote	ction 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 a	uxiliary contacts according to UL			A600 - Q600
Ambient condition	S			
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Prot	ection			

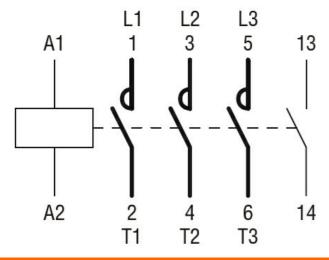
3 Pollution degree

Dimensions





Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1



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	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