



Product designation			Power contacto
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			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	20
Operational current le			
	AC-1 (≤40°C)	А	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 $L/R \le 1$ ms with 1 poles in series			
	≤24V	А	12
	48V	А	10
	75V	Α	4
	110V	А	3
	220V	А	-
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	А	15
	48V	А	14
	75V	А	9
	110V	А	8
	220V	А	_
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	А	16
	48V	А	16
	75V	А	10
	750	/ \	10

11BG0901L048



## **11BG0901L048** THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL LOW CONSUMPTION, 48VDC, 1NC AUXILIARY CONTACT

	220V	А	2
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	А	16
	48V	A	16
	75V	A	10
	110V	А	10
	220V	А	2
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series			
	≤24V	А	7
	48V	A	6
	75V	А	2
	110V	А	1
	220V	А	_
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series			
	≤24V	А	8
	48V	А	8
	75V	А	5
	110V	А	4
	220V	A	_
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series			
	≤24V	А	10
	48V	A	10
	75V	A	6
	110V	A	5
	220V	A	0,8
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series	2201	71	
	≤24V	А	10
	48V	A	10
	75V	A	6
	110V	A	5
	220V	A	0,8
Short-time allowable current for 10s (IEC/EN60947-1)		А	96
Protection fuse			
	gG (IEC)	А	20
	aM (IEC)	A	10
Making capacity (RMS value)		A	92
Breaking capacity at voltage		7	52
Licensing outpuolity at rollago	440V	А	72
	500V	A	72
	690V	A	72
Resistance per pole (average value)	0001	mΩ	10
Power dissipation per pole (average value)		11152	10
Tower dissipation per pole (average value)	lth	W	4
	AC-3	W	0.81
Tightening torque for terminals	A0 0	~ ~	0.01
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
	max	Ibin	9
Tightening torque for coil terminal	Παλ		3
	min	Nm	0.8
	min		
	max	Nm Ihin	1
	min	lbin	9

11BG0901L048



## **11BG0901L048** THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL LOW CONSUMPTION, 48VDC, 1NC AUXILIARY CONTACT

A		max	Ibin	9
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			10
		max		12
	Flexible w/o lug conductor section	min	mm²	0.75
		max	mm²	2.5
	Flexible c/w lug conductor section	max	111111	2.5
	Flexible c/w lug conductor section	min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section	max	111111	2.5
	Texible with insulated spade log conductor section	min	mm²	1.5
		max	mm²	2.5
		Шах		IP20 when
Power terminal prote	ection according to IEC/EN 60529			properly wired
Mechanical features				property milea
Operating position				
		normal		Vertical plan
		allowable		±30°
				Screw / DIN rai
Fixing				35mm
Veight			g	200
Conductor section				
	AWG/kcmil conductor section			
		max		12
к ни	restariation			
Auxiliary contact chai	racteristics			
Auxiliary contact chai Thermal current Ith			А	10
			A	10 A600 - Q600
Thermal current Ith	esignation		A	
Thermal current Ith EC/EN 60947-5-1 d	esignation	230V	A	
Thermal current Ith EC/EN 60947-5-1 d	esignation	230V 400V		A600 - Q600
Thermal current Ith EC/EN 60947-5-1 d	esignation		A	A600 - Q600 3
Thermal current Ith EC/EN 60947-5-1 d	esignation C15	400V	A A	A600 - Q600 3 1.9
Thermal current Ith EC/EN 60947-5-1 d Operating current AC	esignation C15	400V	A A	A600 - Q600 3 1.9
Thermal current Ith EC/EN 60947-5-1 d Operating current AC	esignation C15 C12	400V 500V	A A A	A600 - Q600 3 1.9 1.4
Thermal current Ith EC/EN 60947-5-1 d Operating current AC	esignation C15 C12	400V 500V	A A A	A600 - Q600 3 1.9 1.4
Thermal current Ith EC/EN 60947-5-1 d Operating current AC	esignation C15 C12	400V 500V 110V	A A A A	A600 - Q600 3 1.9 1.4 2.9
Thermal current Ith EC/EN 60947-5-1 d Operating current AC	esignation C15 C12	400V 500V 110V 24V	A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9
Thermal current Ith EC/EN 60947-5-1 d Operating current AC	esignation C15 C12	400V 500V 110V 24V 48V	A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 2.9 1.4
Thermal current Ith EC/EN 60947-5-1 d Operating current AC	esignation C15 C12	400V 500V 110V 24V 48V 60V	A A A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 2.9 1.4 1.2
Thermal current Ith EC/EN 60947-5-1 d Operating current AC	esignation C15 C12	400V 500V 110V 24V 48V 60V 110V	A A A A A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6
Thermal current Ith EC/EN 60947-5-1 d Operating current AC	esignation C15 C12	400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55
Thermal current Ith EC/EN 60947-5-1 d Operating current AC	esignation C15 C12	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3
Thermal current Ith EC/EN 60947-5-1 d Operating current AC Operating current DC	esignation C15 C12	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3
Thermal current Ith EC/EN 60947-5-1 d Operating current AC Operating current DC Operating current DC	esignation C15 C12	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Thermal current Ith EC/EN 60947-5-1 d Operating current AC Operating current DC Operating current DC Operations Mechanical life	esignation C15 C12	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A A Cycles	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000
Thermal current Ith EC/EN 60947-5-1 d Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	esignation C15 C12	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A A Cycles	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000
Thermal current Ith EC/EN 60947-5-1 d Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	esignation C15 C12 C13	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A A Cycles	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000
Thermal current Ith EC/EN 60947-5-1 d Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	esignation C15 C12 C13 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A A A A Cycles cycles	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Thermal current Ith EC/EN 60947-5-1 d Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B	esignation C15 C12 C13 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A A A Cycles cycles	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 500000



# 11BG0901L048 THREE-POLE CONTACTOR, I

IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL LOW
CONSUMPTION, 48VDC, 1NC AUXILIARY CONTACT

DC rated control volta	ade			V	48
DC operating voltage	-			•	
	pick-up				
			min	%Us	75
			max	%Us	115
	drop-out				
			min	%Us	10
			max	%Us	25
Average coil consum	ption ≤20°C				
			in-rush	W	2.3
			holding	W	2.3
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us of					
	in AC				
		Closing NO	<b>~</b> in	me	12
			min max	ms ms	21
		Opening NO	IIIdX	1115	<u> </u>
			min	ms	9
			max	ms	18
		Closing NC			
		5 - 5 - 5	min	ms	17
			max	ms	26
		Opening NC			
		. 2	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	me	3
			max	ms ms	5
		Opening NC	Παλ	1113	5
		Cpoining 100	min	ms	11
			max	ms	17
UL technical data				-	
Full-load current (FLA	A) for three-phase A	AC motor			
	-		at 480V	А	7.6
			at 600V	А	6.1
Yielded mechanical p					
	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
			575/600V	HP	5

11BG0901L048



Contactor

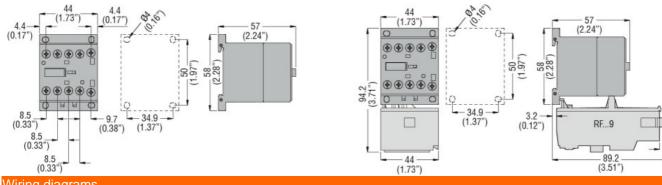
General USE

**11BG0901L048** THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL LOW CONSUMPTION, 48VDC, 1NC AUXILIARY CONTACT

AC current 20 А Short-circuit protection fuse, 600V High fault Short circuit current 100 kΑ Fuse rating А 30 Fuse class J Standard fault Short circuit current 5 kΑ Fuse rating А 30 Fuse class RK5 Contact rating of auxiliary contacts according to UL A600 - Q600 Ambient conditions Temperature Operating temperature °C -50 min °C +70 max Storage temperature

	min max	°C °C	-60 +80	
Max altitude		m	3000	
Resistance & Protection				

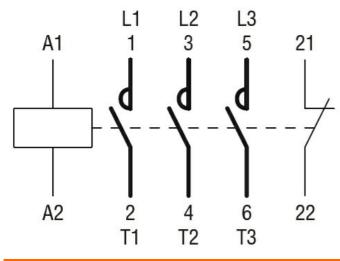
3



Wiring diagrams

Pollution degree

Dimensions



## Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

7.6

(0.30")



## **11BG0901L048** THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL LOW CONSUMPTION, 48VDC, 1NC AUXILIARY CONTACT

	CSA C22.2 n° 60947-4-1
	IEC/EN 60947-1
	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