

#### **11BGF0901A110** THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 110VAC, 1NC AUXILIARY CONTACT, FASTON TERMINALS



Product designation Product type designation			Power contactor BGF09
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		А	20
Operational current le			
	AC-1 (≤40°C)	А	20
	AC-1 (≤55°C)	А	18
	AC-1 (≤70°C)	А	15
	AC-3 (≤440V ≤55°C)	А	9
	AC-4 (400V)	А	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	А	4
	110V	A	3
	220V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	А	15
	48V	А	14
	75V	A	9
	110V	A	8
	220V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	А	16
	48V	A	16
	75V	A	10
	110V	A	10
	220V	A	2



#### **11BGF0901A110** THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 110VAC, 1NC AUXILIARY CONTACT, FASTON TERMINALS

IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	≤24V	А	16
	48V	А	16
	75V	А	10
	110V	A	10
	220V	A	2
EC max current le in DC3-DC5 with L/R $\leq$ 15ms with 1 poles in series	2201	~~~~	2
	≤24V	А	7
	48V	A	6
	75V	А	2
	110V	А	1
	220V	Α	-
EC max current le in DC3-DC5 with L/R $\leq$ 15ms with 2 poles in series			
	≤24V	А	8
	48V	А	8
	75V	А	5
	110V	A	4
	220V	A	
EC may ourrant to in DC3 DC5 with L/P < 15mg with 3 palaging agrice	2201	А	_
EC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series	-0.0.7	۸	10
	≤24V	A	10
	48V	А	10
	75V	Α	6
	110V	А	5
	220V	А	0,8
EC max current le in DC3-DC5 with L/R $\leq$ 15ms with 4 poles in series			·
	≤24V	А	10
	48V	A	10
	75V	A	6
	110V	А	5
	220V	A	0,8
Short-time allowable current for 10s (IEC/EN60947-1)		A	96
Protection fuse			
	gG (IEC)	A	20
	aM (IEC)	Α	10
Making capacity (RMS value)		А	92
Breaking capacity at voltage			
	440V	А	72
	500V	A	72
	690V	A	72
Resistance per pole (average value)	0001	mΩ	10
Power dissipation per pole (average value)		11132	10
ower dissipation per pole (average value)	lth	W	4
The first first first first first	AC-3	W	0.81
Fightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	Ibin	9
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
	max	Ibin	9



# 11BGF0901A110

ENERGY AND AUTOMATION	THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 110VAC, 1NC AUXILIARY CONTACT, FASTON TERMINALS			
Max number of wires	simultaneously connectable	Nr.	2	
Conductor section				
	AWG/Kcmil			
		max	12	

		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			
		min	mm²	1.5
		max	mm²	2.5
				IP20 when
Power terminal protect	ction according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
				Screw / DIN rail
Fixing				35mm
Veight			g	179
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact chara	acteristics			
Thermal current Ith			А	10
EC/EN 60947-5-1 de	signation			A600 - Q600
Operating current AC	•			
		230V	А	3
		400V	A	1.9
		500V	A	1.4
Operating current DC	12			
oporating our one Do		110V	А	2.9
Operating current DC	13	1100	~~~~	2.0
		24V	А	2.9
		48V	A	1.4
		40V 60V	A	1.1
		125V	A	0.3
		220V	A	0.1
		600V	A	0.6
Operations		000 V	~	0.0
Vechanical life			cycles	20000000
Electrical life			cycles cycles	500000
Safety related data			cycles	50000
	Od according to EN//SO 124%0 1			
renormance level B1	0d according to EN/ISO 13489-1		au clas	500000
		rated load	cycles	500000

	rated load	cycles	500000
	mechanical load	cycles	2000000
Mirror contats according to IEC/EN 609474-4-1			yes
EMC compatibility			yes
AC coil operating			
Rated AC voltage at 50/60Hz		V	110
AC operating voltage			

### 11BGF0901A110



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 110VAC, 1NC AUXILIARY CONTACT, FASTON TERMINALS

	of 50/60Hz coil powe	ered at 50Hz			
		pick-up			
			min	%Us	75
			max	%Us	115
		drop-out			
			min	%Us	20
			max	%Us	55
	of 50/60Hz coil powe	ered at 60Hz			
		pick-up			
			min	%Us	80
			max	%Us	115
		drop-out	_		
			min	%Us	20
<u></u>			max	%Us	55
AC average coil consu	•				
	of 50/60Hz coil powe	ered at 50Hz	tan an a t	1/4	20
			in-rush	VA	30
		arad at COLI-	holding	VA	4
	of 50/60Hz coil powe	ered at 60HZ		1/4	25
			in-rush	VA VA	25 3
	of 60Hz coil powered		holding	VA	3
			in-rush	VA	30
			holding	VA VA	4
Dissipation at holding	<20°C 50Hz		noiding	W	0.95
Max cycles frequency				vv	0.55
Mechanical operation				cycles/h	3600
Operating times				0,0100,11	
Operating times Average time for Us co	ontrol			eyelee/it	
Operating times Average time for Us co	ontrol in AC			ey el ce, il	
		Closing NO		- Cyclockin	
		Closing NO	min	ms	12
		Closing NO	min max		
		Closing NO Opening NO		ms	12 21
		-	max	ms ms ms	12 21 9
		Opening NO	max	ms ms	12 21
		-	max min max	ms ms ms ms	12 21 9 18
		Opening NO	max min max min	ms ms ms ms ms	12 21 9 18 17
		Opening NO Closing NC	max min max	ms ms ms ms	12 21 9 18
		Opening NO	max min max min max	ms ms ms ms ms	12 21 9 18 17 26
		Opening NO Closing NC	max min max min max min	ms ms ms ms ms ms	12 21 9 18 17 26 7
	in AC	Opening NO Closing NC	max min max min max	ms ms ms ms ms	12 21 9 18 17 26
		Opening NO Closing NC Opening NC	max min max min max min	ms ms ms ms ms ms	12 21 9 18 17 26 7
	in AC	Opening NO Closing NC	max min max min max min max	ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17
	in AC	Opening NO Closing NC Opening NC	max min max min max min max min	ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 18
	in AC	Opening NO Closing NC Opening NC Closing NO	max min max min max min max	ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17
	in AC	Opening NO Closing NC Opening NC	max min max min max min max min	ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 17
	in AC	Opening NO Closing NC Opening NC Closing NO	max min max min max min max min max	ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 17 18 25 2
	in AC	Opening NO Closing NC Opening NC Closing NO	max min max min max min max min max	ms ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 17
	in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	max min max min max min max min max	ms ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 17 18 25 2
	in AC	Opening NO Closing NC Opening NC Closing NO Opening NO Closing NC	max min max min max min max min max min max	ms ms ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 17 18 25 2 3
	in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	max min max min max min max min max min max min max	ms ms ms ms ms ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 17 18 25 2 3 3 5
	in AC	Opening NO Closing NC Opening NC Closing NO Opening NO Closing NC	max min max min max min max min max min max min	ms ms ms ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 17 18 25 2 3 3

11BGF0901A110 The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



11BGF0901A110 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ,

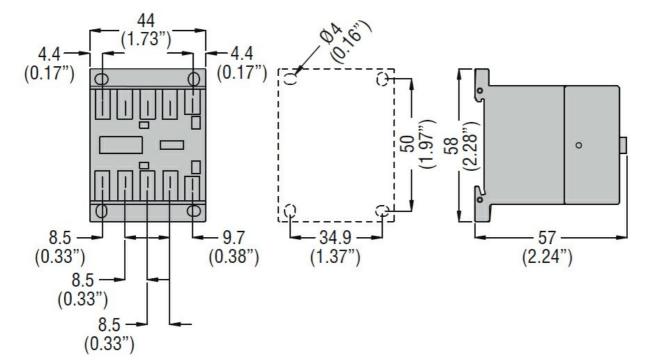
# 110VAC, 1NC AUXILIARY CONTACT, FASTON TERMINALS

	max	ms	17
UL technical data			
Full-load current (FLA) for three-phase AC me	otor		
	at 480V	А	7.6
	at 600V	Α	6.1
Yielded mechanical performance			
for single-phase AC	motor		
	110/120V	HP	0.5
	230V	HP	1.5
for three-phase AC n	notor		
	200/208V	HP	2
	220/230V	HP	3
	460/480V	HP	5
	575/600V	HP	5
General USE			
Contactor			
	AC current	А	20
Short-circuit protection fuse, 600V			
High fault			
-	Short circuit current	kA	100
	Fuse rating	А	30
	Fuse class		J
Standard fault			
	Short circuit current	kA	5
	Fuse rating	А	30
Contact rating of auxiliary contacts according	to UL		A600 - Q600
Ambient conditions			
Temperature			
Operating temperatu	re		
	min	°C	-50
	max	°C	+70
Storage temperature			
5 1		° <b>^</b>	-60
	min	°C	-00
	min max	°C	+80
Max altitude			
		°C	+80
Max altitude Resistance & Protection Pollution degree		°C	+80

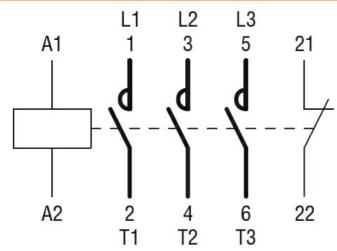
11BGF0901A110



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 110VAC, 1NC AUXILIARY CONTACT, FASTON TERMINALS



Wiring diagrams



## Certifications and compliance

Continuation of and oc	mpliance	
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		
	CCC	
	cULus	
	EAC	
ETIM classification		
		EC000066 -
ETIM 8.0		Power contactor,
		AC switching