11BG1210A400

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 50/60HZ, 400VAC, 1NO AUXILIARY CONTACT



Product designation			Power contactor
Product type designation			BG12
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
Conventional free air thermal current Ith IEC/EN		A	20
Operational current Ie			
	AC-1 (≤40°C)	A	20
	AC-3 (≤440V ≤55°C)	A	12
	AC-4 (400V)	A	4.8
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	3.2
	400V	kW	57
	415V	kW	6.2
	440V	kW	5.5
	500V	kW	5
	690V	kW	5
Short-time allowable current for 10s (IEC/EN60947-1)		A	96
Protection fuse			
	gG (IEC)	A	20
	aM (IEC)	A	16
Making capacity (RMS value)		A	120
Breaking capacity at voltage			
	440V	A	96
	500V	A	72
	690V	A	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	Power dissipation pole (average value) Ith	W	4
	AC3	W	1.44
Tightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	lbft	0.59
	max	lbft	0.74
Tightening torque for coil terminal			

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		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			
		min	mm²	1.5
		max	mm²	2.5
Power terminal protection according to IEC/EN 60529				IP20 when wired
Auxiliary contact characteristics				
Type of contact				1 NO
Thermal current Ith			A	10
IEC/EN 60947-5-1 designation				A600 - Q600
Operational current Ie AC-1 (≤40°C)			A	20
Operating current AC15				
		230V	A	3
		400V	A	1.9
		500V	A	1.4
Operating current DC12				
		110V	A	2.9
Operating current DC13				
		24V	A	2.9
		48V	A	1.4
		60V	A	1.1
		110V	A	Screw / DIN rail 35mm
		125V	A	0.3
		220V	A	0.1
		600V	A	0.6
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-40
		max	°C	60
	Storage temperature			
		min	°C	-55
		max	°C	70
Max altitude			m	3000
Operational position				
		Operating position normal		Vertical plan
		Operating position allowable		±30°
Mounting				Screw / DIN rail 35mm
Weight			g	0.177

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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				
		rated load	Cicli	500000
		mechanical load	Cicli	20000000
Mirror contats according 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		
			min	%Us 0.75
			max	%Us 1.15
		drop-out		
			min	%Us 0.2
			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		
			min	%Us 0.2
			max	%Us 0.55
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
			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				
			max	V 480
DC operating voltage				
Average coil consuption ≤20°C				
			in-rush	W 3.2
			holding	W 3.2
Max cycles frequency				
Mechanical operations			Cycles/h	3600
Operating times				
Average time for Us control				

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in AC			
Closing NO			
	min	ms	12
	max	ms	21
Opening NO			
	min	ms	9
	max	ms	18
Closing NC			
	min	ms	17
	max	ms	26
Opening NC			
	min	ms	7
	max	ms	17

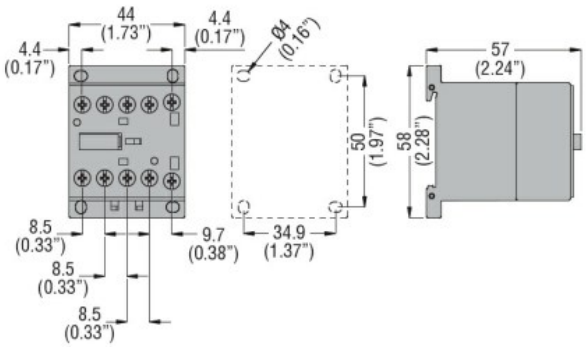
UL technical data

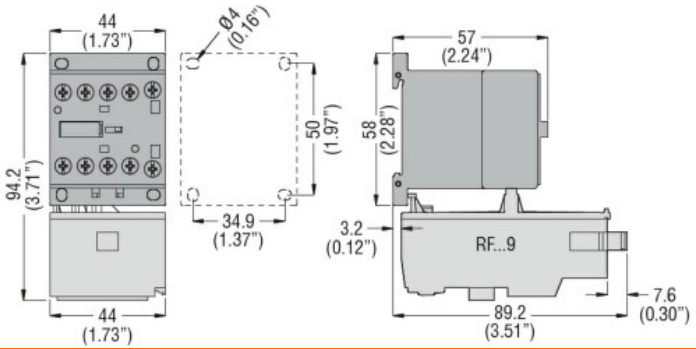
Full-load current (FLA) for three-phase AC motor			
	at 480V	A	11
	at 600V	A	11
Yielded mechanical performance for			
for single-phase AC motor			
	Yielded mechanical performance at 110/120V	hp	0.5
	Yielded mechanical performance at 230V	hp	1.5
for three-phase AC motor			
	Yielded mechanical performance at 200/208V	hp	3
	Yielded mechanical performance at 220/230V	hp	3
	Yielded mechanical performance at 460/480V	hp	7.5
	Yielded mechanical performance at 575/600V	hp	10
Contact rating of auxiliary contacts according to UL			A600 - Q600
General USE			
Contactor			
	AC current	A	20

Other features

Pollution degree	3

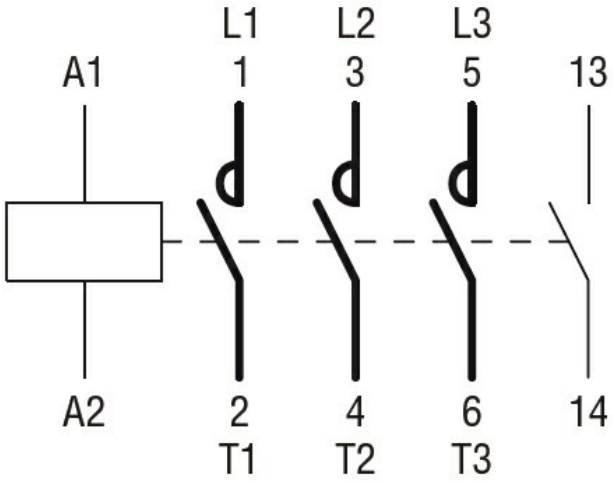
Dimensions





Wiring diagrams

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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

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