**ENERGY AND AUTOMATION** 

# electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, DC COIL, 12VDC, 1NC AUXILIARY CONTACT

99990 Lordo

Product designation Power contactor Product type designation BG06

Froduct type designation			DG00
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	16
Operational current le			
	AC-1 (≤40°C)	Α	16
	AC-1 (≤55°C)	Α	14
	AC-1 (≤70°C)	Α	12
	AC-3 (≤440V ≤55°C)	Α	6
	AC-4 (400V)	Α	3.3
Rated operational power AC-3 (T≤55°C)			
	230V	kW	1.5
	400V	kW	2.2
	415V	kW	2.4
	440V	kW	2.5
	500V	kW	3
	690V	kW	3
Rated operational power AC-1 (T≤40°C)			
	230V	kW	6
	400V	kW	10
	500V	kW	13
	690V	kW	18
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	Α	9
	48V	Α	8
	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	12
	48V	Α	11
	75V	Α	7
	110V	Α	6
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	Α	14
	48V	Α	14
	75V	Α	8



electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, DC COIL, 12VDC, 1NC AUXILIARY CONTACT **ENERGY AND AUTOMATION** 

	220V	Α	1
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	220 V		<u> </u>
ILC max current le in DCT with E/N = mis with 4 poles in series	≤24V	۸	
	≤24 V 48 V	A	_
	75V	A	_
		A	_
	110V	A	_
150	220V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series		_	
	≤24V	Α	6
	48V	Α	5
	75V	Α	2
	110V	Α	1
	220V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	Α	7
	48V	Α	7
	75V	Α	4
	110V	Α	3
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	Α	9
	48V	Α	9
	75V	Α	5
	110V	Α	4
	220V	Α	0,5
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	_
	48V	Α	_
	75V	Α	_
	110V	Α	_
	220V	A	_
Short-time allowable current for 10s (IEC/EN60947-1)	2201	A	96
Protection fuse			
1 Tote Culon Tuse	ac (IEC)	۸	16
	gG (IEC)	A	
Making consists (DMC value)	aM (IEC)	A	6
Making capacity (RMS value)		Α	92
Breaking capacity at voltage			70
	440V	A	72
	500V	A	72
	690V	Α	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	Ith	W	2.6
	AC3	W	0.36
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



		max	Ibin	9
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			40
	Fig. 7.1	max		12
	Flexible w/o lug conductor section			0.75
		min	mm² mm²	0.75 2.5
	Flexible c/w lug conductor section	max	111111	2.5
	Flexible C/W lug colludctor section	min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section		111111	2.0
	Tropidle with interlated opage ray contactor coolien	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°
Fixing				Screw / DIN rail
				35mm
Weight			g	218
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact chara	acteristics		•	1.0
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	SCIANATION			
	-			A600 - Q600
Operating current AC	-	2001/		
	-	230V	A	3
	-	400V	Α	3 1.9
Operating current AC	15			3
	15	400V 500V	A A	3 1.9 1.4
Operating current AC	12	400V	Α	3 1.9
Operating current AC	12	400V 500V 110V	A A	3 1.9 1.4 2.9
Operating current AC	12	400V 500V 110V 24V	A A A	3 1.9 1.4 2.9
Operating current AC	12	400V 500V 110V 24V 48V	A A A	3 1.9 1.4 2.9 2.9 1.4
Operating current AC	12	400V 500V 110V 24V 48V 60V	A A A A	3 1.9 1.4 2.9 2.9 1.4 1.2
Operating current AC	12	400V 500V 110V 24V 48V 60V 110V	A A A A A	3 1.9 1.4 2.9 2.9 1.4 1.2 0.6
Operating current AC	12	400V 500V 110V 24V 48V 60V 110V 125V	A A A A	3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55
Operating current AC	12	400V 500V 110V 24V 48V 60V 110V	A A A A A	3 1.9 1.4 2.9 2.9 1.4 1.2 0.6
Operating current AC	12	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3
Operating current AC Operating current DC Operating current DC	12	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3
Operating current AC Operating current DC Operating current DC Operating current DC	12	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current AC Operating current DC Operating current DC Operating current DC Operating current DC	12	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A Cycles	3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current AC  Operating current DC  Operating current DC  Operating current DC  Operations  Mechanical life  Electrical life  Safety related data	12	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A Cycles	3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current AC  Operating current DC  Operating current DC  Operating current DC  Operations  Mechanical life  Electrical life  Safety related data	12	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A Cycles	3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current AC  Operating current DC  Operating current DC  Operating current DC  Operations  Mechanical life  Electrical life  Safety related data	12 13 Od according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles cycles	3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B1	12 13 Od according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles cycles	3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B1	12 13 Od according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles cycles	3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000

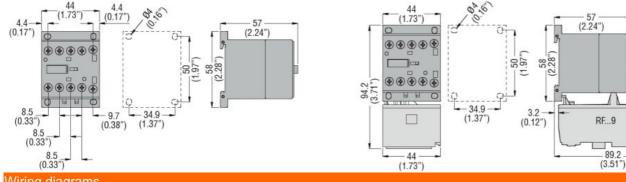


DC rated control voltage	20			V	12
DC operating voltage	<del>ye</del>			V	12
Do operating voltage	pick-up				
	pick up		min	%Us	75
			max	%Us	115
	drop-out		тах	7000	110
	arop out		min	%Us	10
			max	%Us	25
Average coil consump	tion ≤20°C			,,,,,	
3			in-rush	W	3.2
			holding	W	3.2
Max cycles frequency			J		
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us of	ontrol				
•	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
	in DC				
		Closing NO			
			min	ms	18
			max	ms	25
		Opening NO			
			min	ms	2
			max	ms	3
		Closing NC	_		_
			min	ms	3
		0 1 110	max	ms	5
		Opening NC			4.4
			min	ms	11
III to obvioel date			max	ms	17
UL technical data Full-load current (FLA)	for three phase ^C	motor			
ruil-ioau current (FLA)	i ioi iiiiee-phase At	וווטוטו כ	ot 400\/	٨	1 0
			at 480V at 600V	A A	4.8 3.9
Violded machanical as	orformanco		ai 000V	А	ა.უ
Yielded mechanical pe		AC motor			
	for single-phase i	AO MUIUI	110/1001	Пυ	0.2
			110/120V	HP up	0.3
	for three phase ^	C motor	230V	HP	1
	for three-phase A	C motor	200/2007	UD	1 5
			200/208V	HP	1.5
			220/230V	HP	2
			460/480V	HP	3
			575/600V	HP	3

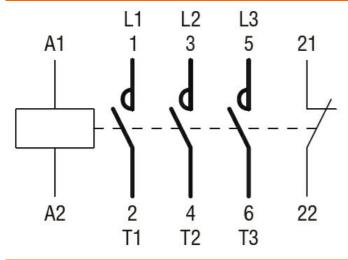


**ENERGY AND AUTOMATION** 

General USE				
	Contactor			
		AC current	Α	16
Short-circuit protection f	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 auxiliar	ry contacts according to UL			A600 - Q600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protection	ı			
Pollution degree				3
Dimensions				
4.4 (0.17") (0.17") (0.17")	57 (2.24")	(1.73") ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	(2.	57



#### Wiring diagrams



#### Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

7.6 (0.30")



#### 11BG0601D012

electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, DC COIL, 12VDC, 1NC
AUXILIARY CONTACT

ENERGY AND AUTOMATION

IEC/EN 60947-1
IEC/EN 60947-4-1
UL 60947-1
UL 60947-4-1

CCC
CULus
EAC

ETIM classification

ETIM 8.0

Certificates

EC000066 -Power contactor, AC switching

### electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, DC COIL, 24VDC, 1NC AUXILIARY CONTACT **ENERGY AND AUTOMATION**



Product designation Power contactor Product type designation BG06

Froduct type designation			DG00
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	16
Operational current le			
	AC-1 (≤40°C)	Α	16
	AC-1 (≤55°C)	Α	14
	AC-1 (≤70°C)	Α	12
	AC-3 (≤440V ≤55°C)	Α	6
	AC-4 (400V)	Α	3.3
Rated operational power AC-3 (T≤55°C)			
	230V	kW	1.5
	400V	kW	2.2
	415V	kW	2.4
	440V	kW	2.5
	500V	kW	3
	690V	kW	3
Rated operational power AC-1 (T≤40°C)			
	230V	kW	6
	400V	kW	10
	500V	kW	13
	690V	kW	18
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	Α	9
	48V	Α	8
	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	12
	48V	Α	11
	75V	Α	7
	110V	Α	6
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	Α	14
	48V	Α	14
	75V	Α	8



	220V	Α	1
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	220 V		<u> </u>
ILC max current le in DCT with E/N = mis with 4 poles in series	≤24V	۸	
	≤24 V 48 V	A	_
	75V	A	_
		A	_
	110V	A	_
150	220V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series		_	
	≤24V	Α	6
	48V	Α	5
	75V	Α	2
	110V	Α	1
	220V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	Α	7
	48V	Α	7
	75V	Α	4
	110V	Α	3
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	Α	9
	48V	Α	9
	75V	Α	5
	110V	Α	4
	220V	Α	0,5
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	_
	48V	Α	_
	75V	Α	_
	110V	Α	_
	220V	A	_
Short-time allowable current for 10s (IEC/EN60947-1)	2201	A	96
Protection fuse			
1 Tote Culon Tuse	ac (IEC)	۸	16
	gG (IEC)	A	
Making consists (DMC value)	aM (IEC)	A	6
Making capacity (RMS value)		Α	92
Breaking capacity at voltage			70
	440V	A	72
	500V	A	72
	690V	Α	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	Ith	W	2.6
	AC3	W	0.36
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



		max	lbin	9
Max number of wires	simultaneously connectable		Nr.	2
Conductor section	·			
	AWG/Kcmil			
		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 prote	ction according to IEC/EN 60520			IP20 when
Power terminal prote	ction according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	212
Conductor section				
	AWG/kcmil conductor section			
	7 5,7.61 55.74.60	max		12
Auxiliary contact chai	racteristics			
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	esignation			A600 - Q600
Operating current AC	•			
a paramag a annanana		230V	Α	3
		_00.		· ·
		400V	Α	1.9
		400V 500V	A A	1.9 1.4
Operating current DC	212	400V 500V		1.9 1.4
Operating current DC	212	500V	Α	1.4
		500V 110V	A	2.9
		500V 110V 24V	A A	1.4 2.9 2.9
		500V 110V 24V 48V	A A A	1.4 2.9 2.9 1.4
		500V 110V 24V 48V 60V	A A A A	1.4 2.9 2.9 1.4 1.2
		500V 110V 24V 48V 60V 110V	A A A A A	1.4 2.9 2.9 1.4 1.2 0.6
		500V 110V 24V 48V 60V 110V 125V	A A A A A A	1.4 2.9 2.9 1.4 1.2 0.6 0.55
		500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3
Operating current DC		500V 110V 24V 48V 60V 110V 125V	A A A A A A	1.4 2.9 2.9 1.4 1.2 0.6 0.55
Operating current DC		500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current DC  Operations  Mechanical life		500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A Cycles	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current DC  Operations  Mechanical life  Electrical life		500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B	213	500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A Cycles	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current DC  Operations  Mechanical life  Electrical life  Safety related data		500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles cycles	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Operating current DC  Operations  Mechanical life  Electrical life  Safety related data	10d according to EN/ISO 13489-1	500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A Cycles cycles	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Operations Mechanical life Electrical life Safety related data Performance level B	10d according to EN/ISO 13489-1	500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles cycles	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 20000000
Operating current DC  Operations  Mechanical life  Electrical life  Safety related data  Performance level B	10d according to EN/ISO 13489-1	500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A Cycles cycles	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000

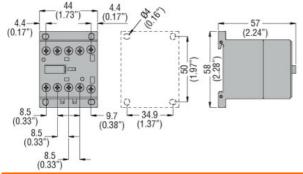


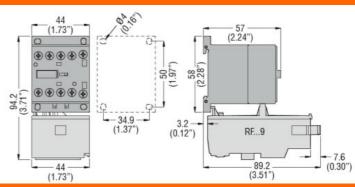
DC rated control voltage	ie			V	24
DC operating voltage	, -				
	pick-up				
			min	%Us	75
			max	%Us	115
	drop-out				
			min	%Us	10
			max	%Us	25
Average coil consump	tion ≤20°C				
			in-rush	W	3.2
May avalag fraguesay			holding	W	3.2
Max cycles frequency Mechanical operation				cycles/h	3600
Operating times				cycles/II	3600
Average time for Us co	ontrol				
Average time for 03 cc	in AC				
	,	Closing NO			
		2.23	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
	in DC		max	ms	17
	III DC	Closing NO			
		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
III to obvio al-data			max	ms	17
UL technical data	for three phase AC =	notor			
Full-load current (FLA)	ioi tillee-phase AC n	IUIUI	at 480V	Α	4.8
			at 600V	A	3.9
Yielded mechanical pe	rformance		at 000 v		0.0
riolada medianidai pe	for single-phase AC	motor			
	.s. s.i.gio pilaso Ao		110/120V	HP	0.3
			230V	HP	1
	for three-phase AC	motor			
	,		200/208V	HP	1.5
			220/230V	HP	2
			460/480V	HP	3
			575/600V	HP	3



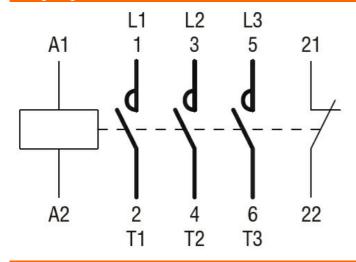
**ENERGY AND AUTOMATION** 

General USE				
	Contactor			
		AC current	Α	16
Short-circuit protecti	ion 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 aux	xiliary contacts according to UL			A600 - Q600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protect	ction			
Pollution degree				3
Dimensions				
4.4 (0.17") (0.17 (0.17") (0.17	(2.24")	(1.73") (1	(2)	57-24")





#### Wiring diagrams



#### Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1



#### 11BG0601D024

electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, DC COIL, 24VDC, 1NC
AUXILIARY CONTACT

**ENERGY AND AUTOMATION** 

IEC/EN 60947-1 IEC/EN 60947-4-1 UL 60947-1 UL 60947-4-1

ETIM classification

EAC

ETIM 8.0

Certificates

EC000066 -Power contactor, AC switching

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, DC COIL, 24VDC, 1NC AUXILIARY CONTACT WITH SURGE SUPPRESSOR **ENERGY AND AUTOMATION** 



Product designation			Power contactor with surge surpressor
Product type designation			BG06
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	16
Operational current le			
	AC-1 (≤40°C)	Α	16
	AC-1 (≤55°C)	Α	14
	AC-1 (≤70°C)	Α	12
	AC-3 (≤440V ≤55°C)	Α	6
	AC-4 (400V)	Α	3.3
Rated operational power AC-3 (T≤55°C)			
	230V	kW	1.5
	400V	kW	2.2
	415V	kW	2.4
	440V	kW	2.5
	500V	kW	3
	690V	kW	3
Rated operational power AC-1 (T≤40°C)			_
, ,	230V	kW	6
	400V	kW	10
	500V	kW	13
	690V	kW	18
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			_
	≤24V	Α	9
	48V	Α	8
	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	12
	48V	Α	11
	75V	Α	7
	110V	Α	6
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	220 V	, ,	
120 max surrone to in 201 with E/1 = 1mo with 5 poles in series	≤24V	Α	14
	48V	A	14
	75V	A	8
	750		U





**ENERGY AND AUTOMATION** 

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, DC COIL, 24VDC, 1NC AUXILIARY CONTACT WITH SURGE SUPPRESSOR

	110V	Α	8
	220V	Α	1
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	_
	48V	Α	_
	75V	Α	_
	110V	A	_
IFC many assument to im DC2 DC5 with 1/D < 45 may with 1 males in position	220V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	≤24V	Α	6
	≥24V 48V	A	6 5
	75V	A	2
	110V	A	1
	220V	A	<u>'</u>
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	220 V		
TEO MAX GAMERIC IN 200 200 WAT EAR 2 TO THO WAT 2 POINT IN GOING	≤24V	Α	7
	48V	Α	7
	75V	Α	4
	110V	Α	3
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
·	≤24V	Α	9
	48V	Α	9
	75V	Α	5
	110V	Α	4
	220V	Α	0,5
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	_
	48V	Α	_
	75V	Α	-
	110V	Α	_
	220V	A	
Short-time allowable current for 10s (IEC/EN60947-1)		Α	96
Protection fuse	- (Is)	_	
	gG (IEC)	Α	16
	aM (IEC)	Α .	6
Making capacity (RMS value)		Α	92
Breaking capacity at voltage	4.40\/	Δ.	70
	440V	A	72 72
	500V 690V	A	72 72
Resistance per pole (average value)	0907	A mΩ	10
Power dissipation per pole (average value)		11122	10
i owei dissipation per pole (average value)	Ith	W	2.6
	AC3	W	0.36
Tightening torque for terminals	703	V V	0.00
rightening torque for terminals	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
	max	Ibin	9
Tightening torque for coil terminal	11102		-
G G d	min	Nm	0.8
	max	Nm	1





**ENERGY AND AUTOMATION** 

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, DC COIL, 24VDC, 1NC AUXILIARY CONTACT WITH SURGE SUPPRESSOR

Max number of wires simultaneously connectable					•	
Max number of wires simultaneously connectable         Nr.         2           Conductor section         AWG/Kcmil         max         12           Flexible w/o lug conductor section         min         mm²         2.5           Flexible c/w lug conductor section         min         mm²         1.5           Flexible with insulated spade lug conductor section         min         mm²         1.5           Flexible with insulated spade lug conductor section         min         mm²         1.5           Machanical features         min         mm²         1.5           Operating position         normal allowable         3.30°         2.5           Fixing         normal allowable         3.30°         3.5mm           Weight         g         212         2.5           Fixing         Screw / DIN rail 35mm         3.5mm         3.5mm           Weight         g         212         2.2           Conductor section         max         1.2         1.2           Auxiliary contact characteristics         3.5mm         4.0         1.2           Auxiliary contact characteristics         230V         A         3.           Auxiliary contact characteristics         230V         A         3.			min	Ibin	9	
AWG/Kemil	May number of wires	cimultaneously connectable	max			
AWG/Kcmil   Plexible w/o lug conductor section   min max mm²   1.5   1		Simultaneously connectable		INI.		
Plexible w/o lug conductor section	Conductor Scotlon	AWG/Kcmil				
Flexible w/o lug conductor section		, W. 6, 1 (c)	max		12	
Flexible c/w lug conductor section		Flexible w/o lug conductor section				
Flexible c/w lug conductor section   min max max min		-	min	mm²	0.75	
Pictible with insulated spade lug conductor section			max	mm²	2.5	
Property		Flexible c/w lug conductor section				
Flexible with insulated spade lug conductor section   min   mm²						
Proper terminal protection according to IEC/EN 60529		Elevible with insulated and deliver conductor postion	max	mm²	2.5	
Prower terminal protection according to IEC/EN 60529   IP20 wine properly wired properly with a 1920 properly wired properly with a 1920 properly wired properly wired pr		Flexible with insulated spade lug conductor section	min	mm²	1 5	
Power terminal protection according to IEC/EN 60529   Properly wired properly w						
Property wired   Property   Property wired   Property   Property   Property   Property   Property   Property   Property   Property wired   Property   Property   Property wired   Property wired   Property   Property   Property wired   Property wired   Property   Pr			max			
Normal allowable   Section   Normal allowable   Section   Sectio	Power terminal proted	ction according to IEC/EN 60529				
Normal allowable   Vertical plan	Mechanical features					
fixing         dallowable         ± 30°           Fixing         Screw / DIN rail 35mm           Weight         g 212           Conductor section           AWG/kcmil conductor section           max         12           Auxiliary contact characteristics           Thermal current lth         A 00           EEC/EN 60947-5-1 designation         A 600 - Q600           Operating current AC15         230V         A 3         3           Operating current DC12         110V         A 2.9         4         A 2.9         April 100         A 1.4         A 0.2         A 1.4         A 0.2         A 1.2         A 1.2         A 1.2         A 0.3         A 0.5         A 0.5         A 0.5         A 0.5         A 0.3         A 0.3 <th col<="" td=""><td>Operating position</td><td></td><td></td><td></td><td></td></th>	<td>Operating position</td> <td></td> <td></td> <td></td> <td></td>	Operating position				
Screw / DIN rail 35mm   Scre						
Parking   g   212			allowable			
Weight         g         212           Conductor section           AWG/kcmil conductor section           The mal current lith         A         10           Light Support Supp	Fixing					
Conductor section	Woight			<u> </u>		
AWG/kcmil conductor section max 12  Auxiliary contact characteristics  Thermal current lth A 10 IEC/EN 60947-5-1 designation A600 - Q600 Operating current AC15  Operating current DC15  Operating current DC12  Operating current DC12  Operating current DC13  A 10  E230V A 3  400V A 1.9  500V A 1.4  Operating current DC12  110V A 2.9  Operating current DC13  A48V A 2.9  A48V A 1.4  60V A 1.2  A10V A 2.9  A10V A 2.	-			9	212	
Max   12   Auxiliary contact characteristics	Conductor Section	AWG/kemil conductor section				
Auxiliary contact characteristics		/WO/Komiii oonddotor sestion	max		12	
A600 - Q600	Auxiliary contact char	acteristics				
Comparising current AC15   230V   A   3   400V   A   1.9   500V   A   1.4	Thermal current Ith			Α	10	
230V	IEC/EN 60947-5-1 de	esignation			A600 - Q600	
A 00V	Operating current AC	15				
S00V   A   1.4						
Operating current DC12						
110V   A   2.9	On a ratio a average DO	40	500V	Α	1.4	
Operating current DC13	Operating current DC	12	110\/	۸	2.0	
24V   A   2.9   48V   A   1.4   60V   A   1.2   110V   A   0.6   125V   A   0.55   220V   A   0.3   600V   A   0.1   0	Operating current DC	12	1100	Α	2.9	
A8V   A   1.4   60V   A   1.2   110V   A   0.6   125V   A   0.55   220V   A   0.3   600V   A   0.1	Operating current DC	13	24\/	Δ	2 9	
60V						
125V A 0.55						
220V A 0.3   600V A 0.1						
Operations         600V         A         0.1           Mechanical life         cycles         20000000           Electrical life         cycles         500000           Safety related data           Performance level B10d according to EN/ISO 13489-1           rated load cycles         500000 mechanical load cycles         20000000           Mirror contats according to IEC/EN 609474-4-1         yes				Α		
Operations         cycles         20000000           Mechanical life         cycles         20000000           Electrical life         cycles         500000           Safety related data           Performance level B10d according to EN/ISO 13489-1           rated load         cycles         500000           mechanical load         cycles         20000000           Mirror contats according to IEC/EN 609474-4-1         yes				Α		
Mechanical life         cycles         20000000           Electrical life         cycles         500000           Safety related data         Performance level B10d according to EN/ISO 13489-1           rated load mechanical load mechanical load mechanical load mechanical load sycles         500000           Mirror contats according to IEC/EN 609474-4-1         yes			600V	Α	0.1	
Electrical life cycles 500000  Safety related data  Performance level B10d according to EN/ISO 13489-1  rated load cycles 500000  mechanical load cycles 20000000  Mirror contats according to IEC/EN 609474-4-1  yes					222222	
Safety related data  Performance level B10d according to EN/ISO 13489-1  rated load cycles 500000  mechanical load cycles 20000000  Mirror contats according to IEC/EN 609474-4-1  yes						
Performance level B10d according to EN/ISO 13489-1  rated load cycles 500000  mechanical load cycles 20000000  Mirror contats according to IEC/EN 609474-4-1  yes				cycles	500000	
rated load cycles 500000 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 yes		Ind according to EN/ISO 13489-1				
mechanical load cycles 20000000  Mirror contats according to IEC/EN 609474-4-1 yes	i enomiance level D	104 according to E14/130 13409-1	rated load	cycles	500000	
Mirror contats according to IEC/EN 609474-4-1 yes		mer		-		
	Mirror contats accord		ai iioai ioaa	0,0100		
	EMC compatibility				yes	





THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, DC COIL, 24VDC, 1NC AUXILIARY CONTACT WITH SURGE SUPPRESSOR **ENERGY AND AUTOMATION** 

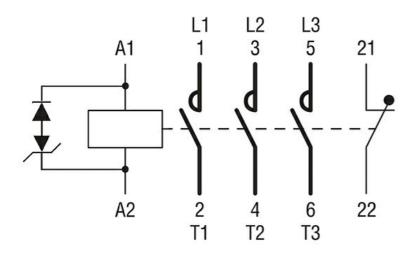
DC coil operating					
DC rated control voltage	ne			V	24
DC operating voltage	<del>-</del>			•	·
	pick-up				
	r - <del></del>		min	%Us	75
			max	%Us	115
	drop-out				
	-		min	%Us	10
			max	%Us	25
Average coil consump	tion ≤20°C				
			in-rush	W	3.2
			holding	W	3.2
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co					
	in AC	<b>A.</b>			
		Closing NO			
			min	ms	12
		0 : 10	max	ms	21
		Opening NO	•		•
			min	ms	9
		Clasias NC	max	ms	18
		Closing NC	min	mo	17
			min	ms ms	26
		Opening NC	max	ms	20
		Opening NO	min	ms	7
			max	ms	, 17
	in DC		παλ	1110	.,
	20	Closing NO			
		2.20	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	AC motor			
			at 480V	Α	4.8
			at 600V	Α	3.9
Yielded mechanical pe					
	for single-phas	e AC motor	4404400	LIE	0.0
			110/120V	HP	0.3
	f d	10	230V	HP	1
	for three-phase	AC motor	000/0001	LIB	4.5
			200/208V	HP	1.5
			220/230V	HP	2
			460/480V	HP	3



electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, DC COIL, 24VDC, 1NC AUXILIARY CONTACT WITH SURGE SUPPRESSOR

**ENERGY AND AUTOMATION** 

	575/600V	HP	3
General USE			
Contactor			
	AC current	Α	16
Short-circuit protection 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 auxiliary contacts according to UL			A600 - Q600
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-50
	max	°C	+70
Storage temperature			
	min	°C	-60
	max	°C	+80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3
Dimensions			
4.4 (0.17") (0.17") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33")	(1.73") (1.73") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37")	(2.28") 5	89.2 (3.51")



#### Certifications and compliance

Compliance



#### 11BG0601D024V120

electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, DC COIL, 24VDC, 1NC AUXILIARY CONTACT WITH SURGE SUPPRESSOR

**ENERGY AND AUTOMATION** 

	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

ETIM 8.0

EC000066 -Power contactor, AC switching

#### electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, DC COIL, 48VDC, 1NC **AUXILIARY CONTACT ENERGY AND AUTOMATION**



Power contactor Product designation Product type designation BG06 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	16
Operational current le			
	AC-1 (≤40°C)	Α	16
	AC-1 (≤55°C)	Α	14
	AC-1 (≤70°C)	Α	12
	AC-3 (≤440V ≤55°C)	Α	6
	AC-4 (400V)	Α	3.3
Rated operational power AC-3 (T≤55°C)			_
	230V	kW	1.5
	400V	kW	2.2
	415V	kW	2.4
	440V	kW	2.5
	500V	kW	3
	690V	kW	3
Rated operational power AC-1 (T≤40°C)			
	230V	kW	6
	400V	kW	10
	500V	kW	13
	690V	kW	18
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	Α	9
	48V	Α	8
	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	12
	48V	Α	11
	75V	Α	7
	110V	Α	6
	220V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	Α	14
	48V	Α	14
	75V	Α	8
	110V	Α	8

electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, DC COIL, 48VDC, 1NC AUXILIARY CONTACT **ENERGY AND AUTOMATION** 

	220V	Α	1
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	220 V		<u> </u>
ILC max current le in DCT with E/N = mis with 4 poles in series	≤24V	۸	
	≤24 V 48 V	A	_
	75V	A	_
		A	_
	110V	A	_
150	220V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series		_	
	≤24V	Α	6
	48V	Α	5
	75V	Α	2
	110V	Α	1
	220V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	Α	7
	48V	Α	7
	75V	Α	4
	110V	Α	3
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	Α	9
	48V	Α	9
	75V	Α	5
	110V	Α	4
	220V	Α	0,5
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	_
	48V	Α	_
	75V	Α	_
	110V	Α	_
	220V	A	_
Short-time allowable current for 10s (IEC/EN60947-1)	2201	A	96
Protection fuse			
1 Tote Culon Tuse	ac (IEC)	۸	16
	gG (IEC)	A	
Making consists (DMC value)	aM (IEC)	A	6
Making capacity (RMS value)		Α	92
Breaking capacity at voltage			70
	440V	A	72
	500V	A	72
	690V	Α	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	Ith	W	2.6
	AC3	W	0.36
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



Max number of wires		max	lbin	9
max number of wires	simultaneously connectable		Nr.	2
Conductor section	·			
	AWG/Kcmil			
		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
		max		IP20 when
Power terminal prote	ction according to IEC/EN 60529			properly wired
Mechanical features				1 I- 3,
Operating position				
operating position		normal		Vertical plan
		allowable		±30°
		allowable		Screw / DIN rail
Fixing				35mm
Weight			α	230
Conductor section			g	230
Conductor Section	AVAIC // consil as an direction as at its a			
	AWG/kcmil conductor section			40
A Manager	and the state of	max		12
Auxiliary contact char	acteristics		Δ	4.0
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	-			A600 - Q600
Operating current AC	`1 <b>5</b>			
operating current Ac	710			
Operating current Ac	,,,,	230V	Α	3
Operating current Ac	,10	400V	A A	1.9
		400V	Α	1.9
		400V	Α	1.9
Operating current DC	212	400V 500V	A A	1.9 1.4
Operating current DC	212	400V 500V	A A	1.9 1.4
Operating current DC	212	400V 500V 110V	A A	1.9 1.4 2.9
Operating current DC	212	400V 500V 110V 24V	A A A	1.9 1.4 2.9 2.9
Operating current DC	212	400V 500V 110V 24V 48V	A A A A	1.9 1.4 2.9 2.9 1.4
Operating current DC	212	400V 500V 110V 24V 48V 60V	A A A A A	1.9 1.4 2.9 2.9 1.4 1.2 0.6
Operating current DC	212	400V 500V 110V 24V 48V 60V 110V	A A A A A	1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55
Operating current DC	212	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A	1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3
Operating current DC Operating current DC	212	400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A	1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55
Operating current DC Operating current DC	212	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current DC Operating current DC Operations Mechanical life	212	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A Cycles	1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current DC Operating current DC Operations Mechanical life Electrical life	212	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	212	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A Cycles	1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	212	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles cycles	1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000
Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	212 213 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles cycles	1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B	212 213 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles cycles	1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level Bar	212 213 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles cycles	1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 500000 200000000 yes
Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B	212 213 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles cycles	1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000

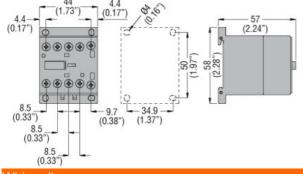


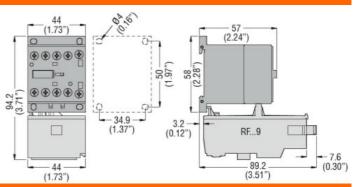
DC rated control voltage	10			V	48
DC operating voltage	,o			· · ·	
	pick-up				
	, <u>-</u>		min	%Us	75
			max	%Us	115
	drop-out				
			min	%Us	10
			max	%Us	25
Average coil consumpt	tion ≤20°C				
			in-rush	W	3.2
May avalag fraguesa			holding	W	3.2
Max cycles frequency				oveloc/b	3600
Mechanical operation Operating times				cycles/h	3600
Average time for Us co	ntrol				
Average time for ea oc	in AC				
		Closing NO			
		J	min	ms	12
			max	ms	21
		Opening NO			
			min	ms	9
			max	ms	18
		Closing NC			4.7
			min	ms	17 26
		Opening NC	max	ms	20
		Opening NO	min	ms	7
			max	ms	17
	in DC				
		Closing NO			
			min	ms	18
			max	ms	25
		Opening NO			
			min	ms	2
		Closing NC	max	ms	3
		Closing NC	min	ms	3
			max	ms	5
		Opening NC	ax	0	-
		, 5	min	ms	11
			max	ms	17
UL technical data					
Full-load current (FLA)	for three-phase AC r	notor			
			at 480V	Α	4.8
	•		at 600V	Α	3.9
Yielded mechanical pe		N 4			
	for single-phase AC	motor	440/4001/	UD	0.3
			110/120V 230V	HP HP	0.3
	for three-phase AC	motor	2307	ПГ	1
	ioi tiliee-pilase AO	motor	200/208V	HP	1.5
			220/230V	HP	2
			460/480V	HP	3
			575/600V	HP	3



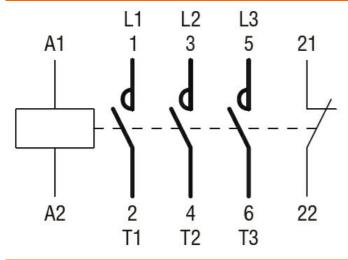
**ENERGY AND AUTOMATION** 

General USE				
	Contactor			
		AC current	Α	16
Short-circuit protectio	n 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 auxil	liary contacts according to UL	<u> </u>		A600 - Q600
Ambient conditions	· ·			
Temperature				
·	Operating temperature			
	, , ,	min	°C	-50
		max	°C	+70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protecti	ion			
Pollution degree				3
Dimensions				
4.4 (0.17") (0.17") (0.17") (0.17") (0.17")	57 (2.24")	44 (1.73") (1.80 (1.73")	(2	57





#### Wiring diagrams



#### Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1



#### 11BG0601D048

electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, DC COIL, 48VDC, 1NC
AUXILIARY CONTACT

**ENERGY AND AUTOMATION** 

| 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



Product designation			Power contactor
Product type designation			BG06
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	16
Operational current le			
AC-1 (≤4	40°C)	Α	16
AC-1 (≤5	55°C)	Α	14
AC-1 (≤7	70°C)	Α	12
AC-3 (≤440V ≤5	55°C)	Α	6
AC-4 (4	100V)	Α	3.3
Rated operational power AC-3 (T≤55°C)			
	230V	kW	1.5
	400V	kW	2.2
	415V	kW	2.4
	440V	kW	2.5
4	500V	kW	3
	690V	kW	3
Rated operational power AC-1 (T≤40°C)			
	230V	kW	6
	400V	kW	10
	500V	kW	13
	690V	kW	18
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	Α	9
	48V	Α	8
	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	12
	48V	Α	11
	75V	Α	7
	110V	Α	6
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	Α	14
	48V	Α	14
		A A A	14 8 8



electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, DC COIL, 60VDC, 1NC AUXILIARY CONTACT **ENERGY AND AUTOMATION** 

	220V	Α	1
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	220 V	A	
TEC max current le in DCT with L/K > mis with 4 poles in series	≤24V	۸	
	48V	A A	_
	75V	A	_
	110V	A	_
	220V	A	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	6
	48V	Α	5
	75V	Α	2
	110V	Α	1
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	Α	7
	48V	Α	7
	75V	Α	4
	110V	Α	3
	220V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	Α	9
	48V	Α	9
	75V	Α	5
	110V	Α	4
	220V	Α	0,5
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series		_	
	≤24V	A	_
	48V	A	_
	75V	A	_
	110V 220V	A	_
Short-time allowable current for 10s (IEC/EN60947-1)	220 V	A 	96
Protection fuse			90
Flotection luse	gG (IEC)	Α	16
	aM (IEC)	A	6
Making capacity (RMS value)	aivi (IEO)	A	92
Breaking capacity (Nine value)			
	440V	Α	72
	500V	A	72
	690V	Α	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
· · · · · · · · · · · · · · · · · · ·	Ith	W	2.6
	AC3	W	0.36
Tightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
	max	Ibin	9
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9



		max	Ibin	9
Max number of wires	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		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
Dower terminal prote	ation according to IEC/EN 60520			IP20 when
Power terminal prote	ction according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	220
Conductor section			9	220
Conductor Section	AWG/kcmil conductor section			
	AVVG/RCITIII COTIQUETOT Section	max		12
Auxiliary contact char	actoristics	IIIax		12
Thermal current Ith	acteristics		А	10
IEC/EN 60947-5-1 de	signation			A600 - Q600
Operating current AC	<u>-</u>			7000 Q000
Operating current AC	15	230V	۸	3
		400V	A A	3 1.9
		500V	A	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 DC	13	24V	۸	2.9
		48V	A A	1.4
		40 V		1.4
		60\/	Λ	1.2
		60V	Α Δ	
		110V	Α	0.6
		110V 125V	A A	0.6 0.55
		110V 125V 220V	A A A	0.6 0.55 0.3
Operations		110V 125V	A A	0.6 0.55
		110V 125V 220V	A A A	0.6 0.55 0.3 0.1
Mechanical life		110V 125V 220V	A A A A	0.6 0.55 0.3 0.1
Mechanical life Electrical life		110V 125V 220V	A A A	0.6 0.55 0.3 0.1
Mechanical life Electrical life Safety related data		110V 125V 220V	A A A A	0.6 0.55 0.3 0.1
Mechanical life Electrical life Safety related data	0d according to EN/ISO 13489-1	110V 125V 220V 600V	A A A Cycles	0.6 0.55 0.3 0.1 20000000 500000
Mechanical life Electrical life Safety related data	-	110V 125V 220V 600V	A A A A Cycles cycles	0.6 0.55 0.3 0.1 20000000 500000
Mechanical life Electrical life Safety related data Performance level B	me	110V 125V 220V 600V	A A A Cycles	0.6 0.55 0.3 0.1 20000000 500000 500000 20000000
Mechanical life Electrical life Safety related data Performance level B'	-	110V 125V 220V 600V	A A A A Cycles cycles	0.6 0.55 0.3 0.1 20000000 500000 500000 200000000 yes
	me	110V 125V 220V 600V	A A A A Cycles cycles	0.6 0.55 0.3 0.1 20000000 500000 500000 20000000

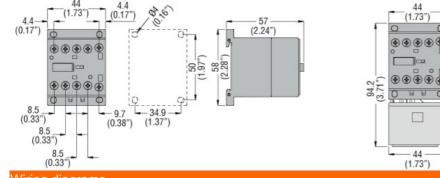


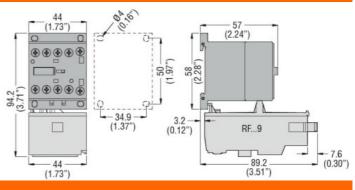
DC roted control voltage	70			V	60
DC rated control voltage  DC operating voltage	je <u> </u>			V	60
DC operating voltage	pick-up				
	pick-up		min	%Us	75
			max	%Us	115
	drop-out		IIIdx	7003	110
	drop out		min	%Us	10
			max	%Us	25
Average coil consump	tion ≤20°C				
			in-rush	W	3.2
			holding	W	3.2
Max cycles frequency			3 3 3		_
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co	ontrol				
· ·	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
	in DC	01 : 110			
		Closing NO			4.0
			min	ms	18
		Opening NO	max	ms	25
		Opening NO	min	me	2
			max	ms ms	3
		Closing NC	IIIdX	ms	3
		Ciosing NO	min	ms	3
			max	ms	5
		Opening NC	max	1110	Ü
			min	ms	11
			max	ms	17
UL technical data					
Full-load current (FLA)	for three-phase AC	C motor			
,	•		at 480V	Α	4.8
			at 600V	Α	3.9
Yielded mechanical pe	erformance				
·	for single-phase	AC motor			
			110/120V	HP	0.3
			230V	HP	1
	for three-phase A	C motor			
			200/208V	HP	1.5
			220/230V	HP	2
			460/480V 575/600V	HP	3



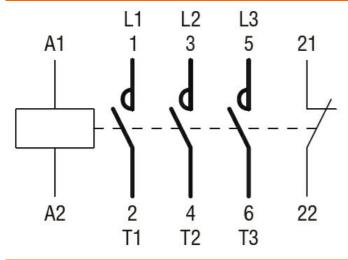
**ENERGY AND AUTOMATION** 

General USE				
	Contactor			
		AC current	Α	16
Short-circuit protection f	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 auxiliar	ry contacts according to UL			A600 - Q600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protection	ı			
Pollution degree				3
Dimensions				
4.4 (0.17") (0.17") (0.17")	57 (2.24")	(1.73") ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	(2.	57





#### Wiring diagrams



#### Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1



#### 11BG0601D060

electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, DC COIL, 60VDC, 1NC
AUXILIARY CONTACT

**ENERGY AND AUTOMATION** 

| 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







Product designation Power contactor Product type designation **BG06** Contact characteristics 3 Nr. Number of poles Rated insulation voltage Ui IEC/EN ٧ 690 k√ Rated impulse withstand voltage Uimp 6 Operational frequency min Нъ 25 max Hz 400 IEC Conventional free air thermal current Ith 16 Α Operational current le AC-1 (≤40°C) Α 16 AC-1 (≤55°C) Α 14 AC-1 (≤70°C) Α 12 AC-3 (≤440V ≤55°C) Α 6 AC-4 (400V) 3.3 Rated operational power AC-3 (T≤55°C) 230V kW 1.5 400V kW 2.2 415V kW 2.4 440V kW 2.5 500V kW 3 690V kW 3 Rated operational power AC-1 (T≤40°C) 230V kW 6 400V kW 10 500V kW 13 690V kW 18 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V Α 9 48V Α 8 75V Α 4 110V 3 Α 220V Α IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V Α 12 48V Α 11 75V 7 Α 110V Α 6 220V Α IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V Α 14 14 48V Α 75V Α 8 110V 8





	220V	Α	1
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
·	≤24V	Α	_
	48V	Α	_
	75V	Α	_
	110V	Α	_
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
'	≤24V	Α	6
	48V	Α	5
	75V	Α	2
	110V	Α	1
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
120 max carrent to in 200 200 man 2/1 = 10mb man 2 perso in consc	≤24V	Α	7
	48V	A	7
	75V	A	4
	110V	A	3
	220V	A	-
IEC may current to in DC3 DC5 with L/D < 15ms with 3 notes in series	220 V		
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	≤24V	٨	9
	≤24V 48V	A	
	46 V 75 V	A	9
		A	5 4
	110V	A	
150	220V	Α	0,5
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	40.4V		
	≤24V	A	_
	48V	A	_
	75V	Α	_
	110V	A	_
OL 46 (IFO/FN00047.4)	220V	A	_
Short-time allowable current for 10s (IEC/EN60947-1)		Α	96
Protection fuse	0 ((=0)		4.0
	gG (IEC)	Α	16
	aM (IEC)	Α	6
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)			
	Ith	W	2.6
	AC3	W	0.36
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





		max	Ibin	9
	simultaneously connectable		Nr.	2
Conductor section	A)A(O/I/C - 1)			
	AWG/Kcmil			40
	Clavible w/s live an director postion	max		12
	Flexible w/o lug conductor section	min	mm²	0.75
		min	mm² mm²	0.75 2.5
	Florible of white conductor acction	max	ШШ	2.5
	Flexible c/w lug conductor section	min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section		111111	2.0
	Tickible with insulated space tag conductor section	min	mm²	1.5
		max	mm²	2.5
		max		IP20 when
Power terminal prote	ection according to IEC/EN 60529			properly wired
Mechanical features				,
Operating position				
. 01		normal		Vertical plan
		allowable		±30°
Elizio e				Screw / DIN rail
Fixing				35mm
Weight			g	213
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact cha	racteristics			
Thermal current Ith			Α	10
	esignation		A	10 A600 - Q600
IEC/EN 60947-5-1 d	<u> </u>		A	
IEC/EN 60947-5-1 d	<u> </u>	230V	A	
IEC/EN 60947-5-1 d	<u> </u>	230V 400V		A600 - Q600
IEC/EN 60947-5-1 d	<u> </u>		A	A600 - Q600 3
IEC/EN 60947-5-1 d Operating current AC	C15	400V 500V	A A	A600 - Q600 3 1.9
IEC/EN 60947-5-1 d Operating current AC Operating current DC	C15	400V	A A	A600 - Q600 3 1.9
IEC/EN 60947-5-1 d Operating current AC Operating current DC	C15	400V 500V	A A A	A600 - Q600 3 1.9 1.4
IEC/EN 60947-5-1 d Operating current AC Operating current DC	C15	400V 500V 110V 24V	A A A	A600 - Q600 3 1.9 1.4
IEC/EN 60947-5-1 d Operating current AC Operating current DC	C15	400V 500V 110V 24V 48V	A A A	A600 - Q600  3 1.9 1.4 2.9 2.9 1.4
IEC/EN 60947-5-1 d Operating current AC Operating current DC	C15	400V 500V 110V 24V	A A A	A600 - Q600  3 1.9 1.4 2.9 2.9 1.4 1.2
IEC/EN 60947-5-1 d Operating current AC Operating current DC	C15	400V 500V 110V 24V 48V	A A A A	A600 - Q600  3 1.9 1.4 2.9 2.9 1.4
IEC/EN 60947-5-1 d Operating current AC Operating current DC	C15	400V 500V 110V 24V 48V 60V	A A A A A	A600 - Q600  3 1.9 1.4 2.9 2.9 1.4 1.2
IEC/EN 60947-5-1 d Operating current AC Operating current DC	C15	400V 500V 110V 24V 48V 60V 110V	A A A A A A	A600 - Q600  3 1.9 1.4  2.9  2.9 1.4 1.2 0.6
IEC/EN 60947-5-1 d Operating current AC Operating current DC Operating current DC	C15	400V 500V 110V 24V 48V 60V 110V 125V	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
IEC/EN 60947-5-1 d Operating current AC Operating current DC Operating current DC Operating current DC	C15	400V 500V 110V 24V 48V 60V 110V 125V 220V	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
Operating current DO	C15	400V 500V 110V 24V 48V 60V 110V 125V 220V	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
Operations  Operations  Operations  Mechanical life  Electrical life	C15	400V 500V 110V 24V 48V 60V 110V 125V 220V	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
Operating current DO Operations Mechanical life Electrical life Safety related data	C12 C13	400V 500V 110V 24V 48V 60V 110V 125V 220V	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
Operating current DO Operations Mechanical life Electrical life Safety related data	C15	400V 500V 110V 24V 48V 60V 110V 125V 220V	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
Operating current DO Operations Mechanical life Electrical life Safety related data	C12 C13	400V 500V 110V 24V 48V 60V 110V 125V 220V	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
Operating current DO Operations Mechanical life Electrical life Safety related data	C12 C13 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 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
Operating current DO Operations Mechanical life Electrical life Safety related data Performance level B	C12 C13 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 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
	C12 C13 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 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

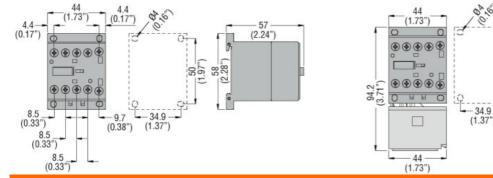


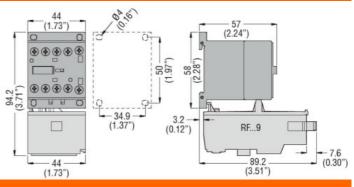


DC rated control voltage			V	110
DC operating voltage				
pick-up				
		min	%Us	75
		max	%Us	115
drop-out				
		min	%Us	10
		max	%Us	25
Average coil consumption ≤20°C		2	107	0.0
		in-rush	W	3.2
Max cycles frequency		holding	W	3.2
Mechanical operation			cycles/h	3600
Operating times			Cycles/II	3000
Average time for Us control				
in AC				
	Closing NO			
	<u> </u>	min	ms	12
		max	ms	21
(	Opening NO			
		min	ms	9
		max	ms	18
(	Closing NC			
		min	ms	17
,	On aning NC	max	ms	26
	Opening NC	min	me	7
		max	ms ms	17
in DC		Пих		
	Closing NO			
		min	ms	18
		max	ms	25
(	Opening NO			
		min	ms	2
		max	ms	3
(	Closing NC			_
		min	ms	3
,	On aning NC	max	ms	5
(	Opening NC	min	ma	11
		min max	ms ms	17
UL technical data		IIIdX	1113	.,
Full-load current (FLA) for three-phase AC motor				
, , , , , , , , , , , , , , , , , , ,		at 480V	Α	4.8
		at 600V	Α	3.9
Yielded mechanical performance				
for single-phase AC moto	or			
		110/120V	HP	0.3
		230V	HP	1
for three-phase AC moto	or			
		200/208V	HP	1.5
		220/230V	HP	2
		460/480V 575/600V	HP HP	3

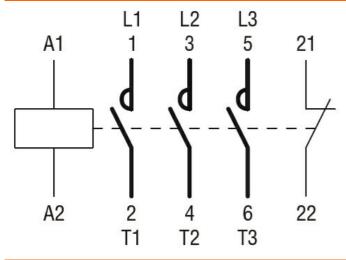


General USE				
Co	ontactor			
		AC current	Α	16
Short-circuit protection fus	e, 600V			
Hi	gh fault			
		Short circuit current	kA	100
		Fuse rating	Α	30
		Fuse class		J
Sta	andard fault			
		Short circuit current	kA	5
		Fuse rating	Α	30
Contact rating of auxiliary of	contacts according to UL			A600 - Q600
Ambient conditions				
Temperature				
Op	perating temperature			
		min	°C	-50
		max	°C	+70
St	orage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protection				
Pollution degree				3
Dimensions				
4.4 (0.17") (0.17") (0.17")	(2.24")	(1.73")	(2	57 





#### Wiring diagrams



#### Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1



#### 11BG0601D110

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, DC COIL, 110VDC, 1NC AUXILIARY CONTACT

	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







Product designation			Power contactor
Product type designation			BG06
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	16
Operational current le			
	AC-1 (≤40°C)	Α	16
	AC-1 (≤55°C)	Α	14
	AC-1 (≤70°C)	Α	12
	AC-3 (≤440V ≤55°C)	Α	6
9	AC-4 (400V)	Α	3.3
Rated operational power AC-3 (T≤55°C)			
	230V	kW	1.5
	400V	kW	2.2
	415V	kW	2.4
	440V	kW	2.5
	500V	kW	3
	690V	kW	3
Rated operational power AC-1 (T≤40°C)			
	230V	kW	6
	400V	kW	10
	500V	kW	13
	690V	kW	18
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	Α	9
	48V	Α	8
	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	12
	48V	Α	11 _
	75V	Α	7
	110V	Α	6
	220V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series		•	4.4
	≤24V	A	14
	48V	A	14
	75V	A	8
	110V	Α	8





	220V	Α	1
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	_
	48V	Α	_
	75V	A	_
	110V	A	_
			_
150	220V	A	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series		_	
	≤24V	Α	6
	48V	Α	5
	75V	Α	2
	110V	Α	1
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
·	≤24V	Α	7
	48V	Α	7
	75V	A	4
	110V	A	3
150 DOS DOS WILLIAM WAS A STATE OF THE STATE	220V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	Α	9
	48V	Α	9
	75V	Α	5
	110V	Α	4
	220V	Α	0,5
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	_
	48V	A	_
	75V	A	
	110V		_
		A	_
01 11 11 11 11 11 11 11 11 11 11 11 11 1	220V	A	
Short-time allowable current for 10s (IEC/EN60947-1)		Α	96
Protection fuse			
	gG (IEC)	Α	16
	aM (IEC)	Α	6
Making capacity (RMS value)		Α	92
Breaking capacity at voltage			
	440V	Α	72
	500V	Α	72
	690V	Α	72
Resistance per pole (average value)	030 V	mΩ	10
		11177	10
Power dissipation per pole (average value)	1.1	3.4.7	0.0
	Ith	W	2.6
	AC3	W	0.36
Tightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
	max	lbin	9
Tightening torque for coil terminal			
2 ··· ·· ·· · · · · · · · · · · · · · ·	min	Nm	0.8
	max	Nm	1
	min	lbin	9





		max	Ibin	9
	simultaneously connectable		Nr.	2
Conductor section	ANA/O///:1			
	AWG/Kcmil	may		10
	Florible w/o lug conductor coetion	max		12
	Flexible w/o lug conductor section	min	mm²	0.75
		max	mm²	2.5
	Flexible c/w lug conductor section	IIIax	111111	2.5
	Tiexible GW lag conductor section	min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section	παχ		2.0
	r loxiloto mar integrated opage rag contactor cocalen	min	mm²	1.5
		max	mm²	2.5
				IP20 when
Power terminal prote	ction according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	230
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact chai	racteristics			
Thermal current Ith			Α	10
167/6816/001/614				
	•			A600 - Q600
	•	2001		
	•	230V	A	3
	•	400V	Α	3 1.9
Operating current AC	215			3
Operating current AC	215	400V 500V	A A	3 1.9 1.4
Operating current AC	C12	400V	Α	3 1.9
Operating current AC	C12	400V 500V	A A	3 1.9 1.4 2.9
Operating current AC	C12	400V 500V 110V 24V	A A A	3 1.9 1.4 2.9
Operating current AC	C12	400V 500V 110V 24V 48V	A A A A	3 1.9 1.4 2.9 2.9 1.4
Operating current AC	C12	400V 500V 110V 24V 48V 60V	A A A A A	3 1.9 1.4 2.9 2.9 1.4 1.2
Operating current AC	C12	400V 500V 110V 24V 48V 60V 110V	A A A A A	3 1.9 1.4 2.9 2.9 1.4 1.2 0.6
Operating current AC	C12	400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A	3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55
Operating current AC	C12	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3
Operating current AC Operating current DC Operating current DC	C12	400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A	3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55
Operating current AC Operating current DC Operating current DC	C12	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A	3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life	C12	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A Cycles	3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life	C12	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A	3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	212	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A Cycles	3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	C12	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A Cycles cycles	3 1.9 1.4 2.9 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	212 213 213 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles cycles	3 1.9 1.4 2.9 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B	212 213 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 Cycles cycles	3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
	212 213 213 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles cycles	3 1.9 1.4 2.9 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000



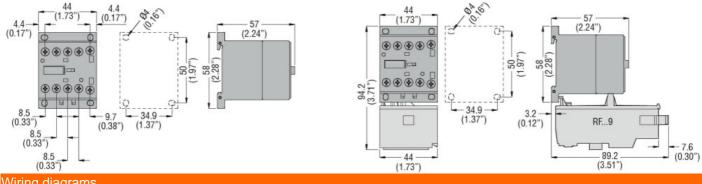


DC rated control volta	ge			V	125
DC operating voltage	minic ···				
	pick-up		min	%Us	75
			max	%Us	115
	drop-out		THEX.	7000	110
	·		min	%Us	10
			max	%Us	25
Average coil consump	tion ≤20°C				
			in-rush	W	3.2
Max cycles frequency			holding	W	3.2
Mechanical operation				cycles/h	3600
Operating times				Cyclc3/11	3000
Average time for Us c	ontrol				
· ·	in AC				
		Closing NO			
			min	ms	12
		0 : 1:0	max	ms	21
		Opening NO		<b>~</b>	0
			min max	ms ms	9 18
		Closing NC	IIIdx	1113	10
		Sieding 115	min	ms	17
			max	ms	26
		Opening NC			
			min	ms	7
	<del></del>		max	ms	17
	in DC	Clasina NO			
		Closing NO	min	ms	18
			max	ms	25
		Opening NO			
		, ,	min	ms	2
			max	ms	3
		Closing NC			
			min	ms	3
		Opening NC	max	ms	5
		Opening NC	min	ms	11
			max	ms	17
UL technical data			HIGA	5	
Full-load current (FLA	) for three-phase	AC motor			
			at 480V	Α	4.8
			at 600V	Α	3.9
Yielded mechanical pe		10			
	for single-phas	se AC motor	440/400\/	UD	0.3
			110/120V 230V	HP HP	0.3 1
	for three-phase	e AC motor	2301	ПГ	1
	101 111100 01100	5 / LO 1110101			
			200/208V	HP	1.5
			200/208V 220/230V	HP HP	1.5 2

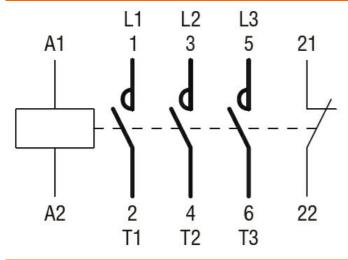
**ENERGY AND AUTOMATION** 

#### THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, DC COIL, 125VDC, **1NC AUXILIARY CONTACT**

General USE				
Contactor				
	,	AC current	Α	16
Short-circuit protection fuse, 600V				
High fault				
	Short circ	cuit current	kA	100
	F	use rating	Α	30
	J	Fuse class		J
Standard fault				
	Short circ	cuit current	kA	5
	F	use rating	Α	30
Contact rating of auxiliary contacts acc	ording to UL			A600 - Q600
Ambient conditions				
Temperature				
Operating tem	perature			
		min	°C	-50
		max	°C	+70
Storage temper	erature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protection				
Pollution degree				3
Dimensions				
4.4 (1.73") (0.17")	57 (1.73")	00.6	(2.	57 <del>-</del> 24")



### Wiring diagrams



#### Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1



#### 11BG0601D125

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, DC COIL, 125VDC, 1NC AUXILIARY CONTACT

	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





Product designation			Power contactor
Product type designation			BG06
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	16
Operational current le			
	AC-1 (≤40°C)	Α	16
	AC-1 (≤55°C)	Α	14
	AC-1 (≤70°C)	Α	12
	AC-3 (≤440V ≤55°C)	Α	6
	AC-4 (400V)	Α	3.3
Rated operational power AC-3 (T≤55°C)			
	230V	kW	1.5
	400V	kW	2.2
	415V	kW	2.4
	440V	kW	2.5
	500V	kW	3
	690V	kW	3
Rated operational power AC-1 (T≤40°C)			
	230V	kW	6
	400V	kW	10
	500V	kW	13
	690V	kW	18
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	Α	9
	48V	Α	8
	75V	Α	4
	110V	Α	3
	220V	A	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series		_	
	≤24V	Α	12
	48V	Α	11 _
	75V	Α	7
	110V	A	6
150	220V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	.0.0	•	4.4
	≤24V	A	14
	48V	A	14
	75V	A	8
	110V	Α	8





	220V	Α	1
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	_
	48V	Α	_
	75V	A	_
	110V	A	_
			_
150	220V	A	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series		_	
	≤24V	Α	6
	48V	Α	5
	75V	Α	2
	110V	Α	1
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
·	≤24V	Α	7
	48V	Α	7
	75V	A	4
	110V	A	3
150 DOS DOS WILLIAM WAS A STATE OF THE STATE	220V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	Α	9
	48V	Α	9
	75V	Α	5
	110V	Α	4
	220V	Α	0,5
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	_
	48V	A	_
	75V	A	
	110V		_
		A	_
01 11 11 11 11 11 11 11 11 11 11 11 11 1	220V	A	
Short-time allowable current for 10s (IEC/EN60947-1)		Α	96
Protection fuse			
	gG (IEC)	Α	16
	aM (IEC)	Α	6
Making capacity (RMS value)		Α	92
Breaking capacity at voltage			
	440V	Α	72
	500V	Α	72
	690V	Α	72
Resistance per pole (average value)	030 V	mΩ	10
		11177	10
Power dissipation per pole (average value)	1.1	3.4.7	0.0
	Ith	W	2.6
	AC3	W	0.36
Tightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
	max	lbin	9
Tightening torque for coil terminal			
2 ··· ·· ·· · · · · · · · · · · · · · ·	min	Nm	0.8
	max	Nm	1
	min	lbin	9



		max	lbin	9
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			4.0
	Electrical de la constantina della constantina d	max		12
	Flexible w/o lug conductor section			0.75
		min	mm² mm²	0.75 2.5
	Flexible c/w lug conductor section	max	111111	2.5
	Flexible C/W lug colludctor section	min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section			2.0
	Tioxible with inculated opace ray contactor coolien	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°
Fixing				Screw / DIN rail
				35mm
Weight			g	222
Conductor section				
	AWG/kcmil conductor section			
				40
		max		12
Auxiliary contact chara	acteristics	max	·	
Thermal current Ith		max	A	10
Thermal current Ith IEC/EN 60947-5-1 de	esignation	max	A	
Thermal current Ith	esignation			10 A600 - Q600
Thermal current Ith IEC/EN 60947-5-1 de	esignation	230V	A	10 A600 - Q600
Thermal current Ith IEC/EN 60947-5-1 de	esignation	230V 400V	A A	10 A600 - Q600 3 1.9
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC	esignation 15	230V	A	10 A600 - Q600
Thermal current Ith IEC/EN 60947-5-1 de	esignation 15	230V 400V 500V	A A A	10 A600 - Q600 3 1.9 1.4
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15	230V 400V	A A	10 A600 - Q600 3 1.9
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC	esignation 15	230V 400V 500V	A A A	10 A600 - Q600 3 1.9 1.4
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15	230V 400V 500V 110V	A A A	10 A600 - Q600 3 1.9 1.4 2.9
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15	230V 400V 500V 110V 24V 48V	A A A A	10 A600 - Q600 3 1.9 1.4 2.9
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15	230V 400V 500V 110V 24V 48V 60V	A A A A A	10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15	230V 400V 500V 110V 24V 48V 60V 110V	A A A A A	10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15	230V 400V 500V 110V 24V 48V 60V	A A A A A	10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15	230V 400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A	10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A	10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC	esignation 15	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A	10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC	esignation 15	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	10 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 IEC/EN 60947-5-1 de Operating current AC  Operating current DC  Operating current DC  Operating current DC  Operating current DC  Mechanical life	esignation 15	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A Cycles	10 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 IEC/EN 60947-5-1 de Operating current AC  Operating current DC  Operating current DC  Operating current DC  Operations Mechanical life Electrical life Safety related data	esignation 15	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A Cycles	10 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 IEC/EN 60947-5-1 de Operating current AC  Operating current DC  Operating current DC  Operating current DC  Operations Mechanical life Electrical life Safety related data	esignation 15 12 13	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A Cycles	10 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 IEC/EN 60947-5-1 de Operating current AC  Operating current DC  Operating current DC  Operating current DC  Operations Mechanical life Electrical life Safety related data	esignation 15 12 13 Od according to EN/ISO 13489-1	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A Cycles cycles	10 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 IEC/EN 60947-5-1 de Operating current AC  Operating current DC  Operating current DC  Operating current DC  Operating current DC  Electrical life Electrical life Safety related data Performance level B1	esignation 15 12 13 Od according to EN/ISO 13489-1	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A Cycles cycles	10 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 IEC/EN 60947-5-1 de Operating current AC  Operating current DC  Operating current DC  Operating current DC  Operating current DC  Electrical life Electrical life Safety related data Performance level B1	esignation  12  13  Od according to EN/ISO 13489-1	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A Cycles cycles	10 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



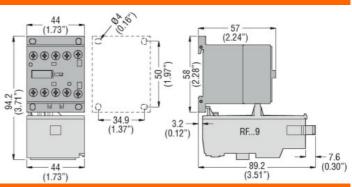


DC rated control voltage	ie			V	220
DC operating voltage	,				
	pick-up				
			min	%Us	75
			max	%Us	115
	drop-out		min	0/116	10
			min max	%Us %Us	10 25
Average coil consump	tion ≤20°C		IIIdA	7003	23
, wordgo con concamp			in-rush	W	3.2
			holding	W	3.2
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co					
	in AC	Olevier NO			
		Closing NO	min	me	12
			min max	ms ms	12 21
		Opening NO	IIIdX	1113	<b>-</b> I
			min	ms	9
			max	ms	18
		Closing NC			
			min	ms	17
		0 1 110	max	ms	26
		Opening NC			7
			min max	ms ms	7 17
	in DC		max	1113	17
	50	Closing NO			
		9	min	ms	18
			max	ms	25
		Opening NO			
			min	ms	2
		Clasina NC	max	ms	3
		Closing NC	min	ms	3
			max	ms	5
		Opening NC	max	1110	-
		, 3 -	min	ms	11
			max	ms	17
UL technical data					
Full-load current (FLA)	for three-phase AC	motor			
			at 480V	A	4.8
Violded machanical as	rformana		at 600V	Α	3.9
Yielded mechanical pe	rrormance for single-phase A	C motor			
	ioi sirigie-pilase A	O MOIOI	110/120V	HP	0.3
			230V	HP	1
	for three-phase AC	motor			
	•		200/208V	HP	1.5
			220/230V	HP	2
			460/480V	HP	3
			575/600V	HP	3

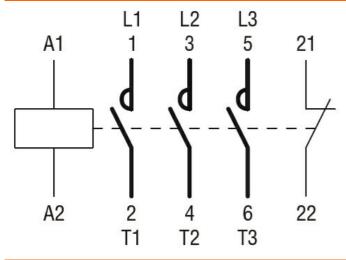


General USE				
Contac	ctor			
		AC current	Α	16
Short-circuit protection fuse, 60	VOC			
High fa	ault			
		Short circuit current	kA	100
		Fuse rating	Α	30
		Fuse class		J
Standa	ard fault			
		Short circuit current	kA	5
		Fuse rating	Α	30
Contact rating of auxiliary conta	acts according to UL			A600 - Q600
Ambient conditions				
Temperature				
Operat	ting temperature			
		min	°C	-50
		max	°C	+70
Storag	e temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protection				
Pollution degree				3
Dimensions				
(0.17") (0.17") (0.17") (0.17")	57 (2.24")	(1.73")	(2	57

# ⊕⊕⊕⊕ 9.7 - 34.9 - (0.38") (1.37") 8.5\_(0.33" 8.5 (0.33")



### Wiring diagrams



#### Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1



#### 11BG0601D220

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, DC COIL, 220VDC, **1NC AUXILIARY CONTACT** 

	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