





Product type designation	Product designation			Power contactor
Number of poles	Product type designation			BG06
Rated insulation voltage Ui IEC/EN V 690 Rated impulse withstand voltage Uimp kV 6 Operational frequency min Hz 25 IEC Conventional free air thermal current lth A 16 Operational current le AC-1 (≤40°C) A 16 AC-1 (≤55°C) A 14 AC-1 (≤55°C) A 14 AC-3 (≤440V ≤55°C) A 6 AC-4 (400V) A 3.3 Rated operational power AC-3 (T≤55°C) 230V kW 1.5 400V kW 2.2 440V kW 2.2 415V kW 2.4 444V kW 2.4 440V kW 2.5 500V kW 3 690V kW 1.5 400V kW 2.2 415V kW 6 400V kW 1.0 50V 1.0 1.0	Contact characteristics			
Rated impulse withstand voltage Uimp	Number of poles		Nr.	3
Operational frequency min max Hz bits 2 do IEC Conventional free air thermal current lith A 16 Operational current le AC-1 (\$40°C) A 16 AC-1 (\$55°C) A 14 AC-3 (\$4400 \$55°C) A 6 AC-3 (\$4400 \$55°C) A 3.3 Rated operational power AC-3 (T≤55°C) 230V kW 2.2 415V kW 2.4 440V kW 2.5 500V kW 3 3 Rated operational power AC-1 (T≤40°C) 230V kW 6 400V kW 10 500V kW 13 690V kW 16 400V kW 10 500V kW 18 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series \$24V A 9 48V A 7 110V A 6 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series \$24V A 7 48V A 7 110V A 6 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	Rated insulation voltage Ui IEC/EN		V	690
Fig. 25	Rated impulse withstand voltage Uimp		kV	6
EC Conventional free air thermal current Ith	Operational frequency			
EC Conventional free air thermal current lth		min	Hz	25
Operational current le AC-1 (≤40°C) A 16 AC-1 (≤55°C) A 14 AC-1 (≤70°C) A 12 AC-3 (≤440V ≤55°C) A 6 AC-4 (400V) A 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 690V kW 10 500V kW 13 690V kW 13 690V kW 18 IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 12 48V A 11 75V A 7 110V A 6 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 12 48V A <td></td> <td>max</td> <td>Hz</td> <td>400</td>		max	Hz	400
AC-1 (≤40°C)			Α	16
AC-1 (S55°C)	Operational current le			
AC-1 (≤70°C) A 12 AC-3 (≤440V ≤55°C) A 6 AC-4 (400V) A 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 13 69			Α	16
AC-3 (≤440V ≤55°C) A 6 AC-4 (400V) A 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 13 690V kW 13 690V kW 13 690V kW 18 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V A 9 48V A 8 75V A 4 110V A 3 220V A − IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 12 48V A 11 75V A 7 110V A 6 220V A − IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			Α	14
AC-4 (400V)			Α	12
Rated operational power AC-3 (T≤55°C) 230V kW 1.5 400V kW 2.2 415V kW 2.4 4440V kW 2.5 500V kW 3 690V kW 3 690V kW 10 500V kW 10 500V kW 13 690V kW 18 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series \$\frac{24V}{48V} A 9 48V A 8 75V A 4 110V A 3 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series \$\frac{24V}{48V} A 12 48V A 11 75V A 7 110V A 6 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series		•	Α	
230V kW 1.5 400V kW 2.2 415V kW 2.4 445V kW 2.5 500V kW 3 690V kW 3 690V kW 3 690V kW 3 690V kW 10 500V kW 13 690V kW 18 690	9	AC-4 (400V)	Α	3.3
400V kW 2.2 415V kW 2.4 440V kW 2.5 500V kW 3 690V kW 3 690V kW 3 690V kW 3 690V kW 10 500V kW 13 690V kW 18 kW 10 kW 1	Rated operational power AC-3 (T≤55°C)			
415V		230V	kW	1.5
A40V kW 2.5 500V kW 3 690V kW 10 600V kW 10 600V kW 13 690V kW 18 690V k		400V	kW	2.2
Soov kW 3 690V kW 3 8 8 8 8 8 8 8 8 8		415V	kW	2.4
Rated operational power AC-1 (T≤40°C) 230V kW 6 400V kW 10 500V kW 13 690V kW 18 18 18 18 18 18 19 19		440V	kW	2.5
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 A 9 48V A 8 75V A 4 110V A 3 220V A − IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 12 48V A 11 75V A 7 110V A 6 220V A − IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 12 48V A 11 75V A 7 110V A 6 220V A −		500V	kW	3
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		690V	kW	3
A00V kW 10 500V kW 13 690V kW 18	Rated operational power AC-1 (T≤40°C)			
Soov kW 13 690V kW 18		230V	kW	6
EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series S24V		400V	kW	10
Section Sec		500V	kW	13
		690V	kW	18
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
T5V A 4 110V A 3 220V A -		≤24V	Α	9
110V A 3 220V A -			Α	8
EC max current le in DC1 with L/R \leq 1ms with 2 poles in series \leq 24V A 12 48V A 11 75V A 7 110V A 6 220V A -			Α	4
EC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V		110V	Α	3
		220V	Α	
	IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			Α	12
			Α	11
EC max current le in DC1 with L/R \leq 1ms with 3 poles in series \leq 24V A 14 48V A 14 75V A 8			Α	7
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 14 48V A 14 75V A 8		110V	Α	6
≤24V A 14 48V A 14 75V A 8		220V	Α	_
48V A 14 75V A 8	IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
75V A 8			Α	14
			Α	14
110V A 8			Α	
		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	_
			_
IFO and a summer to be DOO DOC with 1/D < 45 and with 4 and a beginning	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	220 V		
TEC max current le in DC3-DC5 with L/R \square 15ms with 3 poles in series	2041 /	۸	0
	≤24V	A	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	Α	_
Short-time allowable current for 10s (IEC/EN60947-1)		Α	96
Protection fuse		- , ,	
1 Total Collott Tube	aC (IEC)	۸	16
	gG (IEC)	A	16
M. I	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)		$m\Omega$	10
Power dissipation per pole (average value)			
,	Ith	W	2.6
	AC-3	W	0.36
Tightening torque for terminals			
rightshing torque for terrinitale	min	Nm	0.8
		Nm	
	max		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
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			4.0
	Els 21s /s Louis Lotores Co.	max		12
	Flexible w/o lug conductor section			0.75
		min	mm²	0.75 2.5
	Flexible c/w lug conductor section	max	mm²	2.5
	Flexible C/W lug colludctor section	min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section	max		2.0
	r loxible with indulated opade lag conductor decitor	min	mm²	1.5
		max	mm²	2.5
				IP20 when
Power terminal protec	tion 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			
	AVVG/KCITIII COTIQUCIOI SECTION			
		max		12
Auxiliary contact chara		max		
Thermal current Ith	acteristics	max	A	10
Thermal current Ith IEC/EN 60947-5-1 de	acteristics	max	A	
Thermal current Ith	acteristics			10 A600 - Q600
Thermal current Ith IEC/EN 60947-5-1 de	acteristics	230V	A	10 A600 - Q600
Thermal current Ith IEC/EN 60947-5-1 de	acteristics	230V 400V	A A	10 A600 - Q600 3 1.9
Thermal current lth IEC/EN 60947-5-1 de Operating current AC1	signation 15	230V	A	10 A600 - Q600
Thermal current Ith IEC/EN 60947-5-1 de	signation 15	230V 400V 500V	A A A	10 A600 - Q600 3 1.9 1.4
Thermal current lth IEC/EN 60947-5-1 de: Operating current AC1 Operating current DC2	signation 15	230V 400V	A A	10 A600 - Q600 3 1.9
Thermal current lth IEC/EN 60947-5-1 de Operating current AC1	signation 15	230V 400V 500V	A A A	10 A600 - Q600 3 1.9 1.4
Thermal current lth IEC/EN 60947-5-1 de: Operating current AC1 Operating current DC2	signation 15	230V 400V 500V 110V	A A A	10 A600 - Q600 3 1.9 1.4 2.9
Thermal current lth IEC/EN 60947-5-1 de: Operating current AC1 Operating current DC2	signation 15	230V 400V 500V 110V 24V 48V	A A A A	10 A600 - Q600 3 1.9 1.4 2.9
Thermal current lth IEC/EN 60947-5-1 de: Operating current AC1 Operating current DC2	signation 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 lth IEC/EN 60947-5-1 de: Operating current AC1 Operating current DC2	signation 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 lth IEC/EN 60947-5-1 de: Operating current AC1 Operating current DC2	signation 15	230V 400V 500V 110V 24V 48V 60V 110V 125V	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 lth IEC/EN 60947-5-1 de: Operating current AC1 Operating current DC2	signation 15	230V 400V 500V 110V 24V 48V 60V 110V	A 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 lth IEC/EN 60947-5-1 de: Operating current AC1 Operating current DC2	signation 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 dei Operating current AC1 Operating current DC2 Operating current DC2	signation 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 AC1 Operating current DC2 Operating current DC2 Operating current DC2 Operations	signation 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 der Operating current AC1 Operating current DC2 Operating current DC3 Operating current DC3 Operations Mechanical life	signation 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 dei Operating current AC1 Operating current DC2 Operating current DC3 Operations Mechanical life Electrical life Safety related data	signation 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 dei Operating current AC1 Operating current DC2 Operating current DC3 Operations Mechanical life Electrical life Safety related data	signation 15 12	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 dei Operating current AC1 Operating current DC2 Operating current DC3 Operations Mechanical life Electrical life Safety related data	signation 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 det Operating current AC1 Operating current DC2 Operating current DC3 Operating current DC3 Operations Mechanical life Electrical life Safety related data Performance level B1	signation 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 det Operating current AC1 Operating current DC2 Operating current DC3 Operating current DC3 Operations Mechanical life Electrical life Safety related data Performance level B1	signation 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 500000



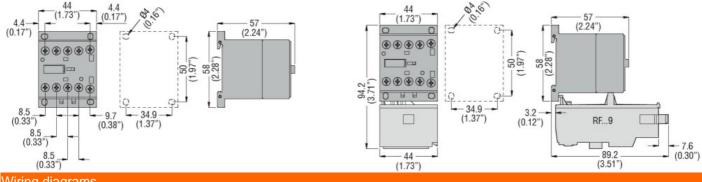


DC rated control voltage	ge			V	125
DC operating voltage					
	pick-up		min	%Us	75
			max	%Us	115
	drop-out		THEX.	7000	110
	·		min	%Us	10
			max	%Us	25
Average coil consump	tion ≤20°C				
			in-rush	W	3.2
Max evelos fraguanes			holding	W	3.2
Max cycles frequency Mechanical operation				cycles/h	3600
Operating times				CyclC3/11	3000
Average time for Us co	ontrol				
· ·	in AC				
		Closing NO			
			min	ms	12
		On selection NO	max	ms	21
		Opening NO	min	ms	9
			max	ms	18
		Closing NC	max	1110	10
		5 11 3 1	min	ms	17
			max	ms	26
		Opening NC			
			min	ms	7
	in DO		max	ms	17
	in DC	Closing 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 NO	min	ms	11
			max	ms	17
UL technical data					
Full-load current (FLA)	for three-phase	AC motor			
			at 480V	Α	4.8
Walded over 1 1 1			at 600V	A	3.9
Yielded mechanical pe		a AC motor			
	for single-phase	E AO IIIUIUI	110/120V	HP	0.3
			230V	HP	1
	for three-phase	AC motor	2001		
	,		200/208V	HP	1.5
			220/230V	HP	2
			460/480V	HP	3
			575/600V	HP	3

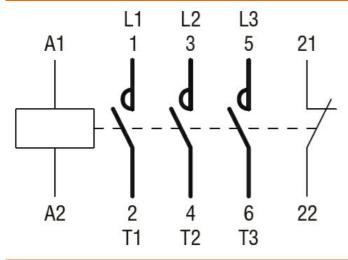
ENERGY AND AUTOMATION

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 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			
(0.17") (4.4 (0.17") (0.17") (5.7") (7.24")	(1.73")	(2	57



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