



Product type designation Contact characteristics Number of poles Rated insulation voltage Ui IEC/EN Rated impulse withstand voltage Uimp Operational frequency IEC Conventional free air thermal current Ith Operational current le AC Rated operational power AC-3 (T≤55°C)	min max AC-1 (≤40°C) AC-1 (≤55°C) AC-1 (≤70°C) C-3 (≤440V ≤55°C) AC-4 (400V) 230V	Nr. V kV Hz Hz A A A A A A A A A	BG06 3 690 6 25 400 16 16 14 12 6 3.3
Number of poles Rated insulation voltage Ui IEC/EN Rated impulse withstand voltage Uimp Operational frequency IEC Conventional free air thermal current Ith Operational current le	max AC-1 (≤40°C) AC-1 (≤55°C) AC-1 (≤70°C) C-3 (≤440V ≤55°C) AC-4 (400V)	V kV Hz A A A A A A A A	690 6 25 400 16 16 14 12 6
Rated insulation voltage Ui IEC/EN Rated impulse withstand voltage Uimp Operational frequency IEC Conventional free air thermal current Ith Operational current le	max AC-1 (≤40°C) AC-1 (≤55°C) AC-1 (≤70°C) C-3 (≤440V ≤55°C) AC-4 (400V)	V kV Hz A A A A A A A A	690 6 25 400 16 16 14 12 6
Rated impulse withstand voltage Uimp Operational frequency IEC Conventional free air thermal current Ith Operational current le	max AC-1 (≤40°C) AC-1 (≤55°C) AC-1 (≤70°C) C-3 (≤440V ≤55°C) AC-4 (400V)	Hz Hz A A A A A A A	6 25 400 16 16 14 12 6
Operational frequency IEC Conventional free air thermal current Ith Operational current le	max AC-1 (≤40°C) AC-1 (≤55°C) AC-1 (≤70°C) C-3 (≤440V ≤55°C) AC-4 (400V)	Hz A A A A A A A	400 16 16 14 12 6
IEC Conventional free air thermal current Ith Operational current le	max AC-1 (≤40°C) AC-1 (≤55°C) AC-1 (≤70°C) C-3 (≤440V ≤55°C) AC-4 (400V)	Hz A A A A A A A	400 16 16 14 12 6
Operational current le	AC-1 (≤40°C) AC-1 (≤55°C) AC-1 (≤70°C) C-3 (≤440V ≤55°C) AC-4 (400V)	A A A A A A	16 16 14 12 6
Operational current le	AC-1 (≤55°C) AC-1 (≤70°C) C-3 (≤440V ≤55°C) AC-4 (400V)	A A A A	16 14 12 6
AC	AC-1 (≤55°C) AC-1 (≤70°C) C-3 (≤440V ≤55°C) AC-4 (400V)	A A A A	14 12 6
	AC-1 (≤55°C) AC-1 (≤70°C) C-3 (≤440V ≤55°C) AC-4 (400V)	A A A A	14 12 6
	AC-1 (≤70°C) C-3 (≤440V ≤55°C) AC-4 (400V)	A A A	12 6
	C-3 (≤440V ≤55°C) AC-4 (400V)	A A	6
	AC-4 (400V)	A	
Rated operational power AC-3 (T≤55°C)			3.3
Rated operational power AC-3 (T≤55°C)	230V		
	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 $L/R \le 1$ ms with 1 poles in series	(0.1) (•
	≤24V	A	9
	48V	A	8
	75V	A	4
	110V 220V	A	3
IEC max current le in DC1 with L/R \leq 1ms with 2 poles in series	220 V	A	_
The max current le in DC1 with $L/R \ge 1115$ with 2 poles in series	≤24V	۸	10
	≤24V 48V	A A	12 11
	48V 75V	A	7
	110V	A	6
	220V	A	-
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series	2201	~	
	≤24V	А	14
	48V	A	14
	40V 75V	A	8
	110V	A	8

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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, AC COIL 50/60HZ, 48VAC, 1NO AUXILIARY CONTACT

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	220V	Α	1
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	≤24V	А	-
	48V	А	-
	75V	А	-
	110V	А	-
	220V	Α	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series			
	≤24V	А	6
	48V	А	5
	75V	А	2
	110V	А	1
	220V	А	-
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	А	7
	48V	А	7
	75V	А	4
	110V	А	3
	220V	А	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	А	9
	48V	А	9
	75V	А	5
	110V	А	4
	220V	А	0,5
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			,
	≤24V	А	_
	48V	A	_
	75V	A	_
	110V	A	_
	220V	A	_
Short-time allowable current for 10s (IEC/EN60947-1)		Α	96
Protection fuse			
	gG (IEC)	А	16
	aM (IEC)	A	6
Making capacity (RMS value)		A	92
Breaking capacity at voltage		71	
Eroaning supulity at rollage	440V	А	72
	500V	A	72
	690V	A	72
Resistance per pole (average value)	000 V	mΩ	10
Power dissipation per pole (average value)		11122	10
i une dissipation per pole (average value)	lth	W	2.6
	AC-3	W	2.6 0.36
	AC-3	VV	0.30

---a la t :1.4

lightening torque for coil	terminal		

Nm

Nm

Ibin

lbin

Nm

Nm

Ibin

min

max min

max

min

max

min

0.8

1

9 9

0.8

1

9



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, AC COIL 50/60HZ, 48VAC, 1NO AUXILIARY CONTACT

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Max number of wires	simultaneously connectable	max	Ibin Nr.	9 2
Conductor section	simultaneously connectable		INF.	2
	AWG/Kcmil			
		max		12
	Flexible w/o lug conductor section	max		12
		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 60529			IP20 when
•				properly wired
Mechanical features				
Operating position				Manthe - Lat
		normal		Vertical plan
		allowable		±30° Screw / DIN ra
Fixing				Screw / DIN ra 35mm
Weight			g	177
Conductor section			9	
	AWG/kcmil conductor section			
		max		12
Auxiliary contact char	acteristics			
Auxiliary contact char Thermal current lth	acteristics		А	10
			A	10 A600 - Q600
Thermal current Ith	esignation		A	
Thermal current Ith IEC/EN 60947-5-1 de	esignation	230V	A 	
Thermal current Ith IEC/EN 60947-5-1 de	esignation	230V 400V		A600 - Q600
Thermal current Ith IEC/EN 60947-5-1 de	esignation		A	A600 - Q600 3
Thermal current Ith IEC/EN 60947-5-1 de	esignation 215	400V	A A	A600 - Q600 3 1.9
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC	esignation 215	400V	A A	A600 - Q600 3 1.9
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC	esignation 215 212	400V 500V	A A A	A600 - Q600 3 1.9 1.4
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 215 212	400V 500V 110V 24V	A A A	A600 - Q600 3 1.9 1.4 2.9 2.9
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 215 212	400V 500V 110V 24V 48V	A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 2.9 1.4
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 215 212	400V 500V 110V 24V 48V 60V	A A A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 2.9 1.4 1.2
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 215 212	400V 500V 110V 24V 48V 60V 110V	A A A A A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 215 212	400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 215 212	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC	esignation 215 212	400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC	esignation 215 212	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operations Mechanical life	esignation 215 212	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A A Cycles	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life	esignation 215 212	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Thermal current Ith 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 215 212 213	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A A Cycles	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000
Thermal current Ith 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 215 212	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A A A Cycles cycles	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
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 215 212 213 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 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
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 Performance level B ²	esignation 215 212 213 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 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 20000000
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 Performance level B ²	esignation 215 212 213 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 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

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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, AC COIL 50/60HZ, 48VAC, 1NO AUXILIARY CONTACT

Rated AC voltage	at 50/60Hz			V	48
AC operating volta	•				
	of 50/60Hz coi	l powered at 50Hz			
		pick-up			
			min	%Us	75
		drop out	max	%Us	115
		drop-out	min	%Us	20
			min max	%Us %Us	20 55
	of 50/60Hz coi	l powered at 60Hz	IIIdA	/003	55
		pick-up			
		plot dp	min	%Us	80
			max	%Us	115
		drop-out			
		•	min	%Us	20
			max	%Us	55
AC average coil co	onsumption at 20°C				
		l powered at 50Hz			
			in-rush	VA	30
			holding	VA	4
	of 50/60Hz coi	l powered at 60Hz			
			in-rush	VA	25
			holding	VA	3
	of 60Hz coil po	owered at 60Hz	. .		
			in-rush	VA	30
				\ / A	
<u></u>			holding	VA	4
			holding	VA W	4 0.95
Dissipation at hold Max cycles freque	ncy		holding	W	0.95
Max cycles freque Mechanical operat	ncy		holding		0.95
Max cycles freque Mechanical operat Operating times	ncy ion		holding	W	0.95
Max cycles freque Mechanical operat Operating times	ncy ion Js control		holding	W	0.95
Max cycles freque Mechanical operat Operating times	ncy ion	Closing NO	holding	W	0.95
Max cycles freque Mechanical operat Operating times	ncy ion Js control	Closing NO		W cycles/h	0.95 3600
Max cycles freque Mechanical operat Operating times	ncy ion Js control	Closing NO	holding min max	W	0.95 3600 12
Max cycles freque Mechanical operat Operating times	ncy ion Js control	Closing NO Opening NO	min	W cycles/h ms	0.95 3600
Max cycles freque Mechanical operat Operating times	ncy ion Js control		min	W cycles/h ms	0.95 3600 12
Max cycles freque Mechanical operat Operating times	ncy ion Js control	Opening NO	min max	W cycles/h ms ms	0.95 3600 12 21
Max cycles freque Mechanical operat Operating times	ncy ion Js control		min max min max	W cycles/h ms ms ms	0.95 3600 12 21 9 18
Max cycles freque Mechanical operat Operating times	ncy ion Js control	Opening NO	min max min	W cycles/h ms ms ms ms ms	0.95 3600 12 21 9 18 17
Max cycles freque Mechanical operat Operating times	ncy ion Js control	Opening NO Closing NC	min max min max	W cycles/h ms ms ms ms	0.95 3600 12 21 9 18
	ncy ion Js control	Opening NO	min max min max min max	W cycles/h ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26
Max cycles freque Mechanical operat Operating times	ncy ion Js control	Opening NO Closing NC	min max min max min max min max min	W cycles/h ms ms ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26 7
Max cycles freque Mechanical operat Operating times	ncy ion Js control in AC	Opening NO Closing NC	min max min max min max	W cycles/h ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26
Max cycles freque Mechanical operat Operating times	ncy ion Js control	Opening NO Closing NC Opening NC	min max min max min max min max min	W cycles/h ms ms ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26 7
Max cycles freque Mechanical operat Operating times	ncy ion Js control in AC	Opening NO Closing NC	min max min max min max min max	W cycles/h ms ms ms ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26 7 17
Max cycles freque Mechanical operat Operating times	ncy ion Js control in AC	Opening NO Closing NC Opening NC	min max min max min max min max min max	W cycles/h ms ms ms ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26 7 17 18
Max cycles freque Mechanical operat Operating times	ncy ion Js control in AC	Opening NO Closing NC Opening NC Closing NO	min max min max min max min max	W cycles/h ms ms ms ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26 7 17
Max cycles freque Mechanical operat Operating times	ncy ion Js control in AC	Opening NO Closing NC Opening NC	min max min max min max min max min max	W cycles/h ms ms ms ms ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26 7 17 17 18 25
Max cycles freque Mechanical operat Operating times	ncy ion Js control in AC	Opening NO Closing NC Opening NC Closing NO	min max min max min max min max min max min max min max	W cycles/h ms ms ms ms ms ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26 7 17 17 18 25 2
Max cycles freque Mechanical operat Operating times	ncy ion Js control in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	min max min max min max min max min max	W cycles/h ms ms ms ms ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26 7 17 17 18 25
Max cycles freque Mechanical operat Operating times	ncy ion Js control in AC	Opening NO Closing NC Opening NC Closing NO	min max min max min max min max min max min max min max	W cycles/h ms ms ms ms ms ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26 7 17 17 18 25 2

11BG0610A048 The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

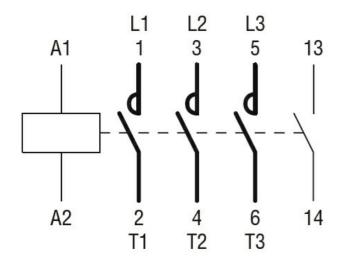


THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, AC COIL 50/60HZ, 48VAC, 1NO AUXILIARY CONTACT

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	Opening	NC		
		min	ms	11
		max	ms	17
UL technical data				
Full-load current (FLA	.) for three-phase AC motor			
		at 480V	A	4.8
		at 600V	A	3.9
Yielded mechanical p				
	for single-phase AC motor	140/4001		0.0
		110/120V 230V	HP HP	0.3
	for three-phase AC motor	2300		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				
	Contactor			
		AC current	А	16
Short-circuit protectio	n fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	А	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	A	30
_	iary contacts according to UL			A600 - Q600
Ambient conditions				
Temperature				
	Operating temperature		° 0	
		min	°C	-50
	Storage tomperature	max	°C	+70
	Storage temperature	~ :~	°C	-60
		min max	С О°	-60 +80
Max altitude		IIIdX	 	3000
Resistance & Protecti	ion		111	
Pollution degree				3
Dimensions				-
		11 at 6		
4.4 (0.17") (0		94.2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(2.28°) 5	57 24")
8.5 (0.33") (0.38") (0.38")		(0.12'		RF9
8.5 (0.33")		(1.73")		





Certifications and compliance

Compliance

Compliance	
	CSA C22.2 n° 60947-1
	CSA C22.2 n° 60947-4-1
	IEC/EN 60947-1
	IEC/EN 60947-4-1
	UL 60947-1
	UL 60947-4-1
Certificates	
	CCC
	cULus
	EAC
ETIM classification	

ETIM 8.0

EC000066 -Power contactor, AC switching