



Product designation Product type designation			Power contactor BG06
Contact characteristics			
Number of poles		nr.	3
Rated insulation voltage Ui		V	690
Rated impulse withstand voltage Uimp		kV	6
Operating frequency			
	Operational frequency min	Hz	25
	Operational frequency max	Hz	400
Conventional free air thermal current Ith		А	16
Operating current			
	Operational current AC1 (≤40°C)	А	16
	Operational current AC3 (≤440V ≤55°C)	А	6
	Operational current AC4 (400V)	Α	3.3
Rated operational power AC1 (T≤40°C)			
	230V	kW	6
	400V	kW	10
	500V	kW	13
	690V	kW	18
Rated operational power AC3A (T≤55°C)			
	Rated operational power AC3 (T≤55°C) 230		1.5
	Rated operational power AC3 (T≤55°C) 400		2.2
	Rated operational power AC3 (T≤55°C) 415		2.4
	Rated operational power AC3 (T≤55°C) 440		2.5
	Rated operational power AC3 (T≤55°C) 500		3
	Rated operational power AC3 (T≤55°C) 690		3
Short-time allowable current for 10s (IEC/ENG	60947-1)	A	96
Protection fuse			
	gG (IEC)	A	16
	aM (IEC)	A	6
Making capacity (RMS value)		A	92
Breaking capacity at voltage		•	70
	Breaking capacity 440V	A	72
	Breaking capacity 500V	A	72
Pasistenes per pala (average value)	Breaking capacity 690V	A mΩ	72 10
Resistance per pole (average value) Power dissipation per pole (average value)		mΩ	10
Power dissipation per pole (average value)	Dower dissipation pole (overage value) Ith	14/	2.6
	Power dissipation pole (average value) Ith	W	2.6
Tightoning torque for terminals	AC3	W	0.36
Tightening torque for terminals		N	0.0
	min	Nm Nm	0.8
	max min	Nm Ibft	1 0.59
		Ibri	0.59
	max	ibit	0.74

## Tightening torque for coil terminal



**11BG0610A024** THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, AC COIL 50/60HZ, 24VAC, 1NO AUXILIARY CONTACT

min Nm 0.8 max Nm 1 lbft 0.8 min 0.74 max lbft max number of wires simultaneously connectable 2 nr. Conductor section AWG min 18 12 max Flexible w/o lug conductor section min mm<sup>2</sup> 0.75 mm<sup>2</sup> 2.5 max Flexible c/w lug conductor section 1.5 mm<sup>2</sup> min max mm<sup>2</sup> 2.5 Flexible with insulated spade lug conductor section mm<sup>2</sup> 1.5 min max mm<sup>2</sup> 2.5 Power terminal protection according to IEC/EN 60529 IP20 when wired Auxiliary contact characteristics 1 NO Type of contact Thermal current Ith А 10 IEC/EN 60947-5-1 designation A600 - Q600 Operational current AC1 (≤40°C) A 16 **Operating current AC15** А 3 230V 400V А 1.9 500V А 1.4 Operating current DC12 110V А 2.9 **Operating current DC13** 24V А 2.9 48V А 1.4 60V А 1.1 Screw / DIN rail 110V А 35mm 125V А 0.3 220V А 0.1 600V А 0.6 Ambient conditions Temperature Operating temperature °C -40 min °C 60 max Storage temperature °C -55 min °C 70 max Max altitude m 3000 Operating position Vertical plan normal ±30° allowable Screw / DIN rail Mounting 35mm Weight 0.179 g

11BG0610A024 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



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Mechanical life			Cuoloo	20000000
Electrical life			Cycles Cycles	500000
Safety related data			Cycles	300000
	0d according to EN/ISO 13489-1			
		rated load	Cicli	500000
		mechanical load	Cicli	20000000
Mirror contats according	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up	min	0/110	0.75
		min max	%Us %Us	0.75 1.15
	drop-out	Παλ	/003	1.15
		min	%Us	0.2
		max	%Us	0.55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	0.8
		max	%Us	1.15
	drop-out		0/11	
		min	%Us	0.2
	of 60Hz coil powered at 60Hz	max	%Us	0.55
	pick-up			
	plot up	min	%Us	0.75
		max	%Us	1.15
	drop-out			
		min	%Us	0.2
		max	%Us	0.55
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	30
	of E0/60Hz and newared at colle	holding	VA	4
	of 50/60Hz coil powered at 60Hz	in-rush	VA	25
		holding	VA VA	3
	of 60Hz coil powered at 60Hz	lioiding	., .	-
		in-rush	VA	30
		holding	VA	4
Dissipation at holding	≤20°C 50Hz		W	0.95
DC coil operating				
DC operating voltage				
Average coil consuption	on ≤20°C			
		in-rush	W	3.2
		holding	W	3.2
Max cycles frequency			Ovela="	2600
Mechanical operations			Cycles/h	3600
Operating times Average time for Us co	ontrol			
Average une for US G	in AC			
	Closing NO			

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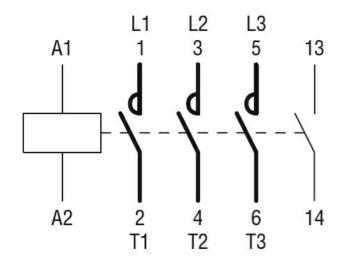


THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, AC COIL 50/60HZ, 24VAC, 1NO AUXILIARY CONTACT

	min	ms	12
	max	ms	21
Opening NC	)		
	min	ms	9
	max	ms	18
Closing NC			
	min	ms	17
	max	ms	26
Opening NC	>		
	min	ms	7
	max	ms	17
UL technical data			
Full-load current (FLA) for three-phase AC motor			
· · ·	at 480V	А	4.8
	at 600V	А	3.9
Yielded mechanical performance			
for single-phase AC motor			
5 1	at 110/120V	hp	0.3
	at 230V	hp	1
for three-phase AC motor			
	at 200/208V	hp	1.5
	at 220/230V	hp	2
	at 460/480V	hp	3
	at 575/600V	hp	3
Contact rating of auxiliary contacts according to UL			A600 - Q600
General USE			1000 0000
Contactor			
Contactor	AC current	А	16
Other features	Ae cullent	~	10
Pollution degree			3
Dimensions			5
$\begin{array}{c} 4.4 \\ (0.17") \\ (0.17") \\ (0.17") \\ (0.37") \\ (0.33") \\ (0.33") \\ (0.33") \\ (0.38") \\ (1.37") \\ (1.$		58 (2.28") (2.28")	57 24") RF9
(0.33) 8.5 (0.33")	•44 (1.73")		89.2

Wiring diagrams





## Certifications and compliance

## Certifications

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

ETIM 6 classification

EC000066 - Power contactor, AC switching