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Product designation Product type designation			Power contactor 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		А	16
Operational current le			
	AC-1 (≤40°C)	А	160
	AC-3 (≤440V ≤55°C)	А	6
	AC-4 (400V)	А	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 $L/R \le 1$ ms with 1 poles in series			
	≤24V	A	9
	48V	A	8
	75V	A	4
	110V	A	3
$I_{\rm E}$ may aureant la in DC4 with $1/D < 4$ may with 2 malas in series	220V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series	<041/	۸	10
	≤24V 48V	A A	12
	46V 75V	A	11 7
	110V	A	6
	220V	A	0
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series	2201	~	
	≤24V	А	14
	48V	A	14
	48V 75V	A	8
	110V	A	8
	220V	A	1
	223 V		-

IEC max current le in DC1 with L/R \leq 1ms with 4 poles in series



$\begin{aligned} \frac{$244}{48} & A & - \\ \frac{48}{75V} & A & - \\ 110V & A & - \\ 220V & A & - \\ 220V & A & - \\ \frac{48}{75V} & A & 2 \\ 110V & A & 1 \\ 220V & A & 2 \\ 110V & A & 1 \\ 220V & A & 2 \\ 110V & A & 1 \\ 220V & A & - \\ 320V & A & - $				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		≤24V	А	_
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		48V	А	_
EC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series 524V A 6 48V A 5 75V A 2 110V A 1 220V A - EC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series 524V A 7 48V A 7 48V A 7 48V A 7 75V A 4 110V A 3 220V A - EC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series 524V A 9 48V A 9 48V A 9 48V A 9 48V A 9 20V A - - 20V A - EC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series 524V A 9 - 500rt-time allowable current for 10s (IEC/EN60947-1) A - - - 500rt-time allowable current for 10s (IEC/EN60947-1) A		75V	А	-
EC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series $\begin{array}{cccccccccccccccccccccccccccccccccccc$		110V	А	-
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		220V	А	_
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		≤24V	А	6
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		48V	А	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		75V	А	
$\begin{array}{c c c c c c c } \hline 220V & A & - \\ \hline \\ EC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series \\ \hline \\ & 48V & A & 7 \\ & 48V & A & 7 \\ & 48V & A & 3 \\ & 220V & A & 3 \\ & 220V & A & 3 \\ & 220V & A & 9 \\ & 48V & A & 5 \\ & 110V & A & 4 \\ & 220V & A & 5 \\ & 110V & A & 4 \\ & 220V & A & 5 \\ & 110V & A & 4 \\ & 220V & A & 5 \\ & 110V & A & 4 \\ & 220V & A & - \\ & 48V & A & - \\ & 110V & A & - \\ & 100V $				
EC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series $\begin{array}{c} \leq 24V & A & 7 \\ 48V & A & 7 \\ 75V & A & 4 \\ 110V & A & 3 \\ 220V & A & - \end{array}$ EC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series $\begin{array}{c} \leq 24V & A & 9 \\ 48V & A & 9 \\ 75V & A & 5 \\ 110V & A & 4 \\ 220V & A & 0.5 \end{array}$ EC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series $\begin{array}{c} \leq 24V & A & 9 \\ 48V & A & 9 \\ 75V & A & 5 \\ 110V & A & 4 \\ 220V & A & 0.5 \end{array}$ EC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series $\begin{array}{c} \leq 24V & A & - \\ 48V & A & - \\ 75V & A & - \\ 110V & A & - \\ 220V & A & - \end{array}$ Short-time allowable current for 10s (IEC/EN60947-1) & A & 96 \end{array} Protection fuse $\begin{array}{c} gG (IEC) & A & 16 \\ aM (IEC) & A & 6 \\ 440V & A & 72 \\ 500V & A & 72 \\ 690V & A & 72 \\ 70V & A & 72 \\ 70V$				_
$\begin{aligned} & \leq 24V & A & 7 \\ & 48V & A & 7 \\ & 48V & A & 7 \\ & 48V & A & 7 \\ & 75V & A & 4 \\ & 110V & A & 3 \\ & 220V & A & - \\ & 220V & A & 9 \\ & 48V & A & 5 \\ & 110V & A & 4 \\ & 220V & A & 5 \\ & 110V & A & 4 \\ & 220V & A & 0.5 \end{aligned}$ EC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series $\leq 24V & A & - \\ & 48V & A & - \\ & 48V & A & - \\ & 48V & A & - \\ & 110V & A & - \\ & 110V & A & - \\ & 220V & A & - \\ & 110V & A & - \\ & 220V & A & - \\ & 110V & A & - \\ & 220V & A & - \\ & 110V & A & - \\ & 220V & A & - \\ & 110V & A & - \\ & 220V & A & - \\ & 110V & A & - \\ & 220V & A & - \\ & 110V & A & - \\ & 220V & A & - \\ & 110V & A & - \\ & 220V & A & - \\ & 110V & A & - \\ & 220V & A & - \\ & 110V & A & - \\ & 220V & A & - \\ & 100V & A & - \\ & 220V & A & - \\ & 100V & A & - \\ & 220V & A & - \\ & 100V & A & - \\ & 220V & A & - \\ & 100V & A & - \\ & 220V & A & - \\ & 100V & A & - \\ & 220V & A & - \\ & 100V $	IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
$ \begin{array}{cccc} 48V & A & 7\\ 75V & A & 4\\ 110V & A & 3\\ 220V & A & -\\ \hline \end{array}$		≤24V	А	7
75V A 4 110V A 3 220V A - EC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series 524V A 9 48V A 9 75V A 5 110V A 4 220V A 9 220V A 9 65 5 110V A 4 220V A 6 220V A 9 65 5 110V A 4 220V A 6 220V A - 48V A - 48V A - - 220V A - 5001 A 9 - - 100V A - Stort-time allowable current for 10s (IEC/EN60947-1) A 96 - - - Stort-time allowable current for 10s (IEC/EN60947-1) A 92 - - - -				
$ \begin{array}{c c c c c c c } 110 & A & 3 \\ 220 & A & - \\ \hline \\$				
$\begin{array}{c c c c c c c } \hline 220V & A & - \\ \hline EC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series $$24V & A & 9 \\ & 48V & A & 9 \\ & 75V & A & 5 \\ & 110V & A & 4 \\ & 220V & A & 0.5 \\ \hline EC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series $$24V & A & - \\ & 48V & A & - \\ & 75V & A & - \\ & 110V & A & - \\ & 220V & A & - \\ & 75V & A & - \\ & 110V & A & - \\ & 220V & A & - \\ & 110V & A & - \\ & 220V & A & - \\ & 110V & A & - \\ & 220V & A & - \\ & 110V & A & - \\ & 220V & A & - \\ & 110V & A & - \\ & 220V & A & - \\ & 110V & A & - \\ & 220V & A & - \\ & 110V & A & - \\ & 96 & - \\ \hline & 7ctection fuse & & \\ \hline & & gG (IEC) & A & 16 \\ & aM (IEC) & A & 6 \\ \hline & Making capacity (RMS value) & & A & 92 \\ \hline & 3reaking capacity at voltage & & \\ \hline & & 440V & A & 72 \\ & 500V & A & 72 \\ \hline & & 60V & A & 72 \\ \hline & & 60V & A & 72 \\ \hline & & & 60V & A & 72 \\ \hline & & & & & \\ \hline & & & & & & \\ \hline & & & &$				
EC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series $\begin{array}{c} $				
$\begin{aligned} & \leq 24V & A & 9 \\ & 48V & A & 9 \\ & 75V & A & 5 \\ & 110V & A & 4 \\ & 220V & A & 0.5 \end{aligned}$ EC max current le in DC3-DC5 with L/R < 15ms with 4 poles in series $\begin{aligned} & \leq 24V & A & - \\ & 48V & A & - \\ & 48V & A & - \\ & 48V & A & - \\ & 75V & A & - \\ & 110V & A & - \\ & 220V & A & - \end{aligned}$ Short-time allowable current for 10s (IEC/EN60947-1) & A & 96 \\ Protection fuse $\begin{aligned} & gG (IEC) & A & 16 \\ & aM (IEC) & A & 6 \\ \\ & Vaking capacity (RMS value) & A & 92 \end{aligned}$ Breaking capacity at voltage $\begin{aligned} & 440V & A & 72 \\ & 500V & A & 72 \\ & 690V & A & 72 \\ & 690V & A & 72 \\ \hline & 690V & A $	IEC max current le in DC3-DC5 with $I/R \le 15$ with 3 notes in series	2201	,,	
$ \begin{array}{cccc} 48V & A & 9 \\ 75V & A & 5 \\ 110V & A & 0.5 \end{array} \\ \hline \\$		<24\/	Δ	9
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				
EC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	IEC may current le in DC3-DC5 with $1/P < 15ms$ with 4 poles in series	220 V	Λ	0.0
48V A - 75V A - 75V A - 110V A - 220V A - 200r A 96 Protection fuse A 96 Protection fuse gG (IEC) A 16 aM (IEC) A 6 Vaking capacity (RMS value) A 92 Breaking capacity at voltage 440V A 72 Stoot of the service 440V A 72 Breaking capacity at voltage mΩ 10 Power dissipation per pole (average value) mΩ 10 Power dissipation per pole (average value) mΩ 0.36 Protection fuse min Nm 1 Inpletening torque for terminals min Nm 1 Inpletening torque for coil terminal min Nm 1 Inpletening torque for coil terminal min Nm 1 Inpletening torque for coil terminal min Nm	TEC max current le in DC3-DC3 with E/R 2 15ms with 4 poles in series	<241	۸	
$\begin{array}{cccc} 75 & A & - \\ 110 & A & - \\ 220 & A & - \\ 220 & A & - \end{array}$				-
110V A - 220V A - Short-time allowable current for 10s (IEC/EN60947-1) A 96 Protection fuse gG (IEC) A 16 all (IEC) A 92 6 Vaking capacity (RMS value) A 92 3 Breaking capacity at voltage 440V A 72 Streaking capacity at voltage 440V A 72 Resistance per pole (average value) mΩ 10 Power dissipation per pole (average value) mΩ 10 Power dissipation per pole (average value) min Nm 0.36 Flightening torque for terminals min Nm 0.59 max Nm 1 min 0.74 Flightening torque for coil terminal min Nm 1 min Nm 0.8 max Nm 1 min Ibin 0.59 max Nm 1				-
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				-
Short-time allowable current for 10s (IEC/EN60947-1) A 96 Protection fuse gG (IEC) A 16 aM (IEC) A 6 Making capacity (RMS value) A 92 Breaking capacity at voltage 440V A 72 Streaking capacity at voltage 440V A 72 Gesistance per pole (average value) mΩ 10 Power dissipation per pole (average value) Ith W 2.6 AC3 W 0.36 Fightening torque for terminals min Nm 1 min Ibin 0.59 max Ibin 0.74				-
Protection fuse $ \begin{array}{ccccccccccccccccccccccccccccccccccc$	Short time allowable surrent for 10s (IEC/ENG0047.1)	220 V		
gG (IEC) A 16 aM (IEC) A 6 Making capacity (RMS value) A 92 Breaking capacity at voltage 440V A 72 Streaking capacity at voltage M 72 690V A 72 Resistance per pole (average value) mΩ 10 0 0 0 Power dissipation per pole (average value) mΩ 10 0			A	90
aM (IEC) A 6 Making capacity (RMS value) A 92 Breaking capacity at voltage 440V A 72 Solov A 72 690V A 72 Resistance per pole (average value) mΩ 10 Power dissipation per pole (average value) Ith W 2.6 AC3 W 0.36 Ith 0.36 Fightening torque for terminals min Nm 0.8 max Nm 1 0.59 max Ibin 0.59 0.74	Protection fuse		٨	16
Making capacity (RMS value) A 92 Breaking capacity at voltage 440V A 72 500V A 72 690V A 72 690V A 72 690V A 72 Power dissipation per pole (average value) mΩ 10 Power dissipation per pole (average value) Ith W 2.6 AC3 W 0.36 10 Prightening torque for terminals min Nm 0.8 max Nm 1 1 1 fightening torque for coil terminal min Nm 0.8 max Ibin 0.74 1		- · ·		
Breaking capacity at voltage 440V A 72 500V A 72 690V A 72 Resistance per pole (average value) mΩ 10 Power dissipation per pole (average value) Ith W 2.6 AC3 W 0.36 Fightening torque for terminals min Nm 0.8 max Nm 1 min 10 Fightening torque for coil terminals min Nm 0.8 max Nm 1 0.74 Fightening torque for coil terminal min Nm 0.8 max Ibin 0.74 0.8 max Ibin 0.74 0.8	Making appaaity (DMS value)			
440V A 72 500V A 72 690V A 72 690V A 72 690V A 72 Power dissipation per pole (average value) Ith W 2.6 AC3 W 0.36 Ith W 2.6 AC3 W 0.36 Ith Nm 0.8 Fightening torque for terminals min Nm 1 min 0.59 max Ibin 0.74 Ith 0.8 max Nm 1 Fightening torque for coil terminal min Nm 0.8 max Nm 1 Fightening torque for coil terminal min Ibin 0.74 Ith 0.8 max Nm 1			A	92
500V A 72 690V A 72 Resistance per pole (average value) mΩ 10 Power dissipation per pole (average value) Ith W 2.6 AC3 W 0.36	Breaking capacity at voltage	4.40)/	•	70
690V A 72 Resistance per pole (average value) mΩ 10 Power dissipation per pole (average value) Ith W 2.6 AC3 W 0.36 Fightening torque for terminals min Nm 0.8 max Nm 1 min 1bin 0.59 max Ibin 0.74 0.8 max Nm 1 Fightening torque for coil terminal min Nm 0.8 max Nm 1 Fightening torque for coil terminal min Ibin 0.59 max Ibin 0.74				
Resistance per pole (average value) mΩ 10 Power dissipation per pole (average value) Ith W 2.6 AC3 W 0.36 Fightening torque for terminals min Nm 0.8 min Ibin 0.59 max Ibin 0.74 Fightening torque for coil terminal min Nm 1.8 min Ibin 0.74 Fightening torque for coil terminal min Nm 1.8 min Ibin 0.74				
Power dissipation per pole (average value) Ith W 2.6 AC3 W 0.36 Fightening torque for terminals min Nm 0.8 max Nm 1 min Ibin 0.59 max Ibin 0.74 Fightening torque for coil terminal min Nm 0.8 max Nm 1 min Ibft 0.8 max Ibft 0.74		6907		
Ith W 2.6 AC3 W 0.36 Fightening torque for terminals min Nm 0.8 max Nm 1 min Ibin 0.59 max Ibin 0.74 Fightening torque for coil terminal min Nm 0.8 min Ibin 0.74 Fightening torque for coil terminal min Nm 0.8 max Nm 1 min Ibft 0.8 min Ibft 0.8 max Nm 1 min Ibft 0.8 max Ibft 0.74			mΩ	10
AC3 W 0.36 Fightening torque for terminals min Nm 0.8 max Nm 1 min Ibin 0.59 max Ibin 0.74 Fightening torque for coil terminal min Nm 0.8 min Nm 0.8 max Nm 0.74 Fightening torque for coil terminal min Nm 0.8 min Ibft 0.8 max Min Ibft 0.8 max Ibft	Power dissipation per pole (average value)			
Fightening torque for terminals min Nm 0.8 max Nm 1 min Ibin 0.59 max Ibin 0.74 Fightening torque for coil terminal min Nm 0.8 min Nm 0.8 max Nm 1 min Ibin 0.74 0.8 max Nm 1 min Ibft 0.8 max Nm 1 0.8 min Ibft 0.8 max Ibft 0.74				
min Nm 0.8 max Nm 1 min Ibin 0.59 max Ibin 0.74 Fightening torque for coil terminal min Nm 0.8 max Nm 1 min Ibft 0.8 max Ibft 0.74	-	AC3	VV	0.36
maxNm1minIbin0.59maxIbin0.74Tightening torque for coil terminalminNm0.8maxNm1minIbft0.8maxIbft0.8maxIbft0.74	lightening torque for terminals			
min Ibin 0.59 max Ibin 0.74 Fightening torque for coil terminal min Nm 0.8 max Nm 1 min Ibft 0.8 max Ibft 0.74				
maxIbin0.74Fightening torque for coil terminalminNm0.8maxNm1minIbft0.8minIbft0.8maxIbft0.74				
Fightening torque for coil terminal min Nm 0.8 max Nm 1 min lbft 0.8 max lbft 0.74				
min Nm 0.8 max Nm 1 min Ibft 0.8 max Ibft 0.74		max	Ibin	0.74
max Nm 1 min lbft 0.8 max lbft 0.74	Tightening torque for coil terminal			
min lbft 0.8 max lbft 0.74				
max lbft 0.74				
		min		
Max number of wires simultaneously connectable nr. 2		max	lbft	
	Max number of wires simultaneously connectable		nr.	2



Conductor section

Flexible w/o lug conductor section mm² 0.75 min mm² 2.5 max Flexible c/w lug conductor section mm² 1.5 min mm² 2.5 max Flexible with insulated spade lug conductor section mm² 1.5 min max mm² 2.5 Power terminal protection according to IEC/EN 60529 IP20 when wired Mechanical features Operating position Vertical plan normal allowable ±30° Screw / DIN rail Fixing 35mm Weight 212 g Auxiliary contact characteristics Type of contact 1 NC Thermal current Ith А 10 IEC/EN 60947-5-1 designation A600 - Q600 **Operating current AC15** 230V А 3 400V А 1.9 500V А 1.4 Operating current DC12 110V А 2.9 Operating current DC13 24V A 2.9 48V А 1.4 60V А 1.2 110V А 0.6 125V A 0.55 220V 0.3 А 600V А 0.1 Operations Mechanical life cycles 20000000 Electrical life 500000 cycles Safety related data Performance level B10d according to EN/ISO 13489-1 rated load 500000 cycles 2000000 mechanical load cycles Mirror contats according to IEC/EN 609474-4-1 yes Yes EMC compatibility DC coil operating DC rated control voltage V 24 DC operating voltage pick-up %Us 75 min %Us 115 max drop-out

%Us

min

10



11BG0601D024 Stycznik 3 polowy, 6A w AC3, wbudowany zestyk 1NC, 24VDC

_			max	%Us	25
Average coil consum	ption ≤20°C				
			in-rush	W	3.2
Max avalas fraguena			holding	W	3.2
Max cycles frequency Mechanical operation				cycles/h	3600
Operating times				Cycles/II	3000
Average time for Us of	control				
	in AC				
		Closing NO			
		Ũ	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	Παλ	1113	25
		opening No	min	ms	2
			max	ms	3
		Closing NC			-
		Ũ	min	ms	3
			max	ms	5
		Opening NC			
			min	ms	11
			max	ms	17
UL technical data					
Full-load current (FLA	 for three-phase A 	C motor			
			at 480V	A	4.8
			at 600V	A	3.9
Yielded mechanical p					
	for single-phase	AC motor	440/400/4		0.0
			110/120V	HP	0.3
	for three-phase	AC motor	230V	HP	1
			200/208V	HP	1.5
			200/208V 220/230V	HP	2
			460/480V	HP	3
			575/600V	HP	3
			0,0001		-
General USE	Contactor				
General USE			AC current	А	16
General USE					-
	n fuse, 600V				
General USE Short-circuit protectio	on fuse, 600V High fault		Short circuit current	kA	100

¹¹BG0601D024 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



11BG0601D024

Stycznik 3 polowy, 6A w AC3, wbudowany zestyk 1NC, 24VDC

		Fuse class		J
	Standard fault	Short circuit current Fuse rating	kA A	5 30
	iary contacts according to UL			A600 - Q600
Ambient conditions				
Temperature	Operating temperature			
	Operating temperature	min	°C	-50
		max	°Č	+70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude Resistance & Protecti	on		m	3000
Pollution degree				3
Dimensions				-
4.4 (0.17") (0.18") (0	34.9 (1.37")	44 (1.73") (1.73") (0.12" (0.12" (0.12") (0.12"	(2.28") 5	57 .24") RF9
A1 $A1$ $A1$ $A1$ $A2$ T	$\begin{bmatrix} & & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & $			
Certifications and com	npliance			
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