

Contract characteristics Nr. 3 Number of poles Nr. 3 Rated insulation voltage Ui IEC/EN V 500 Rated insulation voltage Uimp KV 6 Operational frequency min Hz 25 IEC Conventional frequency max Hz 400 IEC Conventional frequency AZ-1 (\$40°C) A 20 Operational current le AC-1 (\$40°C) A 20 AC-1 (\$70°C) A 18 AC-1 (\$70°C) A 9 AC-1 (\$70°C) A 9 AC-4 (400V) A 4 Rated operational power AC-3 (T\$55°C) 230V kW 4 4 At15V KW 4.3 440V 4 5 Souv kW 4 5 500V kW 4 Short-time allowable current for 10s (IEC/EN60947-1) A 96 96 Protection fuse gG (IEC) A 92 300V A 72 Breaking capacit	Product designation Product type designation			Power contactor BGP09
Rated insulation voltage Ui IEC/EN V 500 Rated impulse withstand voltage Uimp kV 6 Operational frequency min Hz 25 max Max 400 25 IEC Conventional free air thermal current lth A 20 Operational current le AC-1 (≤40°C) A 20 AC-1 (≤55°C) A 15 AC-3 (≤440V ≤55°C) A 9 AC-3 (≤440V ≤55°C) A 9 AC-4 (400V) A Rated operational power AC-3 (T≤55°C) 230V kW 4. 415V kW 4.3 440V kW 4. 600V kW 4. 415V kW 4. 500V kW 4. 500V kW 4. 600V kW 4. 400V kW 4. 500V kW 8. 400V kW 4. 60V kW 4. 500V kW 4. 500V kW	Contact characteristics			
Rated impulse withstand voltage Uimp kV 6 Operational frequency min Hz 25 max Hz 400 162 Operational current le AC-1 (≤40°C) A 20 Operational current le AC-1 (≤40°C) A 20 AC-1 (≤40°C) A 20 AC-1 (≤40°C) A 20 AC-1 (≤40°C) A 20 AC-1 (≤40°C) A 15 AC-1 (≤40°C) A 15 AC-1 (≤40°C) A 9 AC-1 (≤40°C) A 15 AC-1 (≤40°C) A 4 Rated operational power AC-3 (Ts55°C) 230V kW 4 4 At15V kW 4.3 440V kW 4.5 S00V kW 4 500V kW 8 400V kW 8 400V kW 14 500V KW 16 14 500V 14 Short-time allowable current for 10s (IEC/EN60947-1) A	Number of poles		Nr.	3
Operational frequency min Hz 25 max Hz 400 1EC Conventional free air thermal current lth A 20 Operational current le AC-1 (s40°C) A 20 AC-1 (s55°C) A 18 AC-1 (s70°C) A 15 AC-3 (s400) (s55°C) A 9 AC-3 (s400) A 4 AC-4 (4000) A 4 Rated operational power AC-3 (T≤55°C) 230 V kW 4. 415V kW 4.3 440 V KW 4. 415V kW 4.5 500 V kW 14 500V kW 14 500 V 14 500 V 16 Short-time allowable current for 10s (IEC/EN60947-1) A 92 10 10 10	Rated insulation voltage Ui IEC/EN		V	500
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Rated impulse withstand voltage Uimp		kV	6
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Operational frequency			
EC Conventional free air thermal current lth A 20 Operational current le AC-1 (\$40°C) A 20 AC-1 (\$55°C) A 18 AC-1 (\$55°C) A 18 AC-1 (\$55°C) A 9 AC-4 (400V) A 4 Rated operational power AC-3 (T≤55°C) 230V kW 2.2 400V kW 4 AC-4 (400V) KW 4 415V kW 4.3 440V kW 4.5 500V kW 5 Rated operational power AC-1 (T≤40°C) 230V kW 8 400V kW 14 500V kW 14 500V kW 14 500V kW 14 500V kW 14 500V kW 14 500V kW 14 500V kW 16 10 440V A 72 Breaking capacity (RMS value) A 92 10 72 500V A 72		min	Hz	25
Operational current le AC-1 (\$40°C) A 20 AC-1 (\$55°C) A 18 AC-1 (\$70°C) A 15 AC-3 (\$440V \$55°C) A 9 AC-4 (400V) A 4 Rated operational power AC-3 (T\$55°C) 230V kW 2.2 400V kW 4 Rated operational power AC-3 (T\$55°C) 230V kW 4.5 5 Rated operational power AC-1 (T\$40°C) 230V kW 4.5 5 Rated operational power AC-1 (T\$40°C) 230V kW 8 400V kW 14 Short-time allowable current for 10s (IEC/EN60947-1) A 96 9 9 Protection fuse gG (IEC) A 20 aM (IEC) A 10 Making capacity (RMS value) A 92 10 10 10 Power dissipation per pole (average value) mΩ 10 10 10 Power dissipation per pole (average value) mΩ 0.81 11 11 max Nm <t< td=""><td></td><td>max</td><td>Hz</td><td>400</td></t<>		max	Hz	400
AC-1 (≤40°C) A 20 AC-1 (≤57°C) A 18 AC-1 (≤70°C) A 15 AC-3 (≤440V) ≤55°C) A 9 AC-4 (400V) A 4 Rated operational power AC-3 (T≤55°C) 230V kW 2.2 400V kW 4.3 415V kW 4.3 440V kW 4.5 500V kW 5 Rated operational power AC-1 (T≤40°C) 230V kW 8 400V kW 4.5 500V kW 14 500V kW 14 500V A 92 Breaking capacity (RMS value) A 92 92 92 Breaking capacity at voltage 440V A 72 500V A 72 Resistance per pole (average value) mQ 10			Α	20
AC-1 (S55°C) A 18 AC-1 (S70°C) A 15 AC-3 (S440V) S55°C) A 9 AC-4 (400V) A 4 Rated operational power AC-3 (T≤55°C) 230V kW 2.2 400V kW 4.3 415V kW 4.3 4415V kW 4.3 440V kW 4.5 500V kW 4.5 500V kW 16 Short-time allowable current for 10s (IEC/EN60947-1) A 96 96 Protection fuse gG (IEC) A 10 Making capacity (RMS value) A 92 92 Breaking capacity at voltage 440V A 72 Resistance per pole (average value) mQ 10 Power dissipation per pole (average value) mQ 10 Power dissipation per pole (average value) mX 0.81 Tightening torque for terminals min Nm 0.81 Tightening torque for coil terminal min 10 10 </td <td>Operational current le</td> <td></td> <td></td> <td></td>	Operational current le			
$\begin{array}{cccc} & AC-1 (\pm 70^{\circ} C) & A & 15 \\ AC-3 (\pm 440V \pm 55^{\circ} C) & A & 9 \\ AC-4 (400V) & A & 4 \\ \hline \end{array}$ Rated operational power AC-3 (T \le 55^{\circ} C) & 230V & kW & 2.2 \\ 400V & kW & 4 \\ 415V & kW & 4.3 \\ 440V & kW & 4.5 \\ 500V & kW & 4.5 \\ 500V & kW & 5 \\ \hline \end{array} Rated operational power AC-1 (T \le 40^{\circ} C) & 230V & kW & 8 \\ 400V & kW & 14 \\ 500V & kW & 14 \\ 500V & kW & 14 \\ \hline \end{array} Short-time allowable current for 10s (IEC/EN60947-1) A 96 \\ \hline Protection fuse & gG (IEC) & A 20 \\ aM (IEC) & A & 10 \\ \hline Making capacity (RMS value) & A & 92 \\ \hline Breaking capacity at voltage & 440V & A & 72 \\ \hline SootV & A & 72 \\ \hline SootV & A & 72 \\ \hline \end{array}			А	20
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			А	18
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			А	15
Rated operational power AC-3 (T≤55°C) 230V kW 2.2 400V kW 4 415V kW 4.3 440V kW 4.5 500V kW 5 Rated operational power AC-1 (T≤40°C) 230V kW 8 230V kW 8 400V kW 14 500V kW 16 5 500V kW 16 Short-time allowable current for 10s (IEC/EN60947-1) A 96 96 Protection fuse gG (IEC) A 20 aM (IEC) A 10 440V A 72 Breaking capacity (RMS value) A 92 92 90 90 Breaking capacity at voltage 440V A 72 500V A 72 Resistance per pole (average value) mΩ 10 10 10 Power dissipation per pole (average value) mΩ 10 10 10 Power dissipation per pole (average value) min Nm 0.81 11 11 10 1			А	9
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		AC-4 (400V)	А	4
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Rated operational power AC-3 (T≤55°C)			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$				
Rated operational power AC-1 (T≤40°C) 230V kW 8 400V kW 14 500V kW 16 Short-time allowable current for 10s (IEC/EN60947-1) A 96 Protection fuse gG (IEC) A 20 aM (IEC) A 10 Making capacity (RMS value) A 92 Breaking 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) mín Nm 4.40.4 AC-3 W 0.81 11 Tightening torque for terminals min Nm 1.8 max Nm 1 min 10 Tightening torque for coil terminal min 1 1				
230VkW8400VkW14500VkW16Short-time allowable current for 10s (IEC/EN60947-1)A96Protection fusegG (IEC)A20aM (IEC)A10Making capacity (RMS value)A92Breaking capacity at voltage440VA72S00VA72Resistance per pole (average value)mΩ10Power dissipation per pole (average value)IthW4AC-3W0.81Tightening torque for terminalsminNm0.8maxNm1min1bin9maxIbin9maxIbin9Tightening torque for coil terminalFightening torque for coil terminalFightening torque for coil terminal		500V	kW	5
400V kW 14 500V kW 16 Short-time allowable current for 10s (IEC/EN60947-1) A 96 Protection fuse gG (IEC) A 20 aM (IEC) A 10 A 92 Breaking capacity (RMS value) A 92 Breaking capacity at voltage 440V A 72 Soov A 72 500V A 72 Resistance per pole (average value) mΩ 10 Power dissipation per pole (average value) Power dissipation per pole (average value) mΩ 10 Power dissipation per pole (average value) Ith W 4 AC-3 W 0.81 Tightening torque for terminals min Nm 1 min Ibin 9 max Ibin 9	Rated operational power AC-1 (T≤40°C)			
500VkW16Short-time allowable current for 10s (IEC/EN60947-1)A96Protection fusegG (IEC)A20aM (IEC)A10Making capacity (RMS value)A92Breaking capacity at voltage440VA72S00VA72Resistance per pole (average value)mΩ10Power dissipation per pole (average value)IthW4AC-3W0.81Tightening torque for terminalsminNm0.8maxNm1min1bin9maxIbin9maxIbin9Tightening torque for coil terminalFightening torque for coil terminalFightening torque for coil terminalFightening torque for coil terminal				
Short-time allowable current for 10s (IEC/EN60947-1) A 96 Protection fuse gG (IEC) A 20 aM (IEC) A 10 Making capacity (RMS value) A 92 Breaking capacity at voltage 440V A 72 Resistance per pole (average value) mΩ 10 Power dissipation per pole (average value) Ith W 4 AC-3 W 0.81 Tightening torque for terminals min Nm 0.8 min Ibin 9 Tightening torque for coil terminal min 1				
Protection fuse gG (IEC) A 20 aM (IEC) A 10 Making capacity (RMS value) A 92 Breaking capacity at voltage 440V A 72 SooV A 72 500V A 72 Resistance per pole (average value) mΩ 10 Power dissipation per pole (average value) Ith W 4 AC-3 W 0.81 Tightening torque for terminals min Nm 1 min Ibin 9 max Ibin 9 Tightening torque for coil terminal Min 1 1 1		500V		
gG (IEC)A20aM (IEC)A10Making capacity (RMS value)A92Breaking capacity at voltage440VA72440VA72500VA72Resistance per pole (average value)mΩ100Power dissipation per pole (average value)IthW4AC-3W0.811Tightening torque for terminalsminNm0.8maxNm1min10MaxNm111MinIbin91Tightening torque for coil terminal91			A	96
aM (IEC) A 10 Making capacity (RMS value) A 92 Breaking capacity at voltage 440V A 72 S00V A 72 72 Resistance per pole (average value) mΩ 10 Power dissipation per pole (average value) Ith W 4 AC-3 W 0.81 Tightening torque for terminals min Nm 0.8 min Ibin 9 Tightening torque for coil terminal 9 10	Protection fuse			00
Making capacity (RMS value) A 92 Breaking capacity at voltage 440V A 72 440V A 72 500V A 72 Resistance per pole (average value) mΩ 10 Power dissipation per pole (average value) Ith W 4 AC-3 W 0.81 Tightening torque for terminals min Nm 0.8 min Ibin 9 Tightening torque for coil terminal 9 10				
Breaking capacity at voltage 440V A 72 440V A 72 500V A 72 Resistance per pole (average value) mΩ 10 Power dissipation per pole (average value) Ith W 4 AC-3 W 0.81 Tightening torque for terminals min Nm 1.8 min Ibin 9 max Ibin 9 Tightening torque for coil terminal 9 Tightening torque for coil terminal 0.8	Malling and the (DMO and a)	aM (IEC)		
440V A 72 500V A 72 Resistance per pole (average value) mΩ 10 Power dissipation per pole (average value) Ith W 4 AC-3 W 0.81 0.81 Tightening torque for terminals min Nm 0.8 min Ibin 9 max Ibin 9 Tightening torque for coil terminal Min 1 1 1			A	92
500V A 72 Resistance per pole (average value) mΩ 10 Power dissipation per pole (average value) Ith W 4 AC-3 W 0.81 0.81 Tightening torque for terminals min Nm 0.8 min Ibin 9 Tightening torque for coil terminal 9	Breaking capacity at voltage	44014		70
Resistance per pole (average value) mΩ 10 Power dissipation per pole (average value) Ith W 4 AC-3 W 0.81 Tightening torque for terminals min Nm 0.8 min Nm 1 min Ibin 9 Tightening torque for coil terminal Tightening torque for coil terminal				
Power dissipation per pole (average value) Ith W 4 AC-3 W 0.81 Tightening torque for terminals min Nm 0.8 max Nm 1 min Ibin 9 max Ibin 9 Tightening torque for coil terminal	Desistance per pole (overage volue)	5000		
Ith W 4 AC-3 W 0.81 Tightening torque for terminals min Nm 0.8 max Nm 1 min Ibin 9 Tightening torque for coil terminal Tightening torque for coil terminal			mΩ	10
AC-3 W 0.81 Tightening torque for terminals min Nm 0.8 max Nm 1 min Ibin 9 Tightening torque for coil terminal Tightening torque for coil terminal	Power dissipation per pole (average value)	Ith	14/	4
Tightening torque for terminals min Nm 0.8 max Nm 1 min Ibin 9 max Ibin 9 Tightening torque for coil terminal 1				
min Nm 0.8 max Nm 1 min Ibin 9 max Ibin 9 Tightening torque for coil terminal	Tightoning torque for terminals	AC-3	vv	0.01
max Nm 1 min Ibin 9 max Ibin 9 Tightening torque for coil terminal	nymening wique wi terrindis	min	Nm	0.8
min Ibin 9 max Ibin 9 Tightening torque for coil terminal				
max Ibin 9 Tightening torque for coil terminal				
Tightening torque for coil terminal				
	Tightening torque for coil terminal	Παλ		5
		min	Nm	0.8

11BGP0901D024 electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 24VDC, 1NC AUXILIARY CONTACT, REAR PCB SOLDER PIN

		max	Nm	1
		min	lbin	9
		max	lbin	9
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		12
	Flexible w/o lug conductor section			
		min	mm²	0.8
		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 protec	ction according to IEC/EN 60529			IP00
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
				Screw / DIN ra
Fixing				35mm
Weight			g	243
Conductor section			9	210
	AWG/kcmil conductor section			
	AWG/Remil conductor section	max		12
Auxiliary contact chara	octaristics	max		12
Thermal current Ith			А	10
IEC/EN 60947-5-1 de	signation		~	A600 - Q600
	-			A000 - Q000
Operating current AC	15	2201/	^	2
		230V	A	3
		4001/		
		400V	A	1.9
		400V 500V	A A	1.9 1.4
Operating current DC ²	12	500V	А	1.4
		500V 110V	A	1.4 2.9
		500V 110V 24V	A A A	1.4 2.9 2.9
		500V 110V 24V 48V	A A A A	1.4 2.9 2.9 1.4
		500V 110V 24V 48V 60V	A A A A A	1.4 2.9 2.9 1.4 1.1
		500V 110V 24V 48V 60V 125V	A A A A A A A	1.4 2.9 2.9 1.4 1.1 0.3
		500V 110V 24V 48V 60V 125V 220V	A A A A A	1.4 2.9 2.9 1.4 1.1 0.3 0.1
Operating current DC		500V 110V 24V 48V 60V 125V	A A A A A A A	1.4 2.9 2.9 1.4 1.1 0.3
Operating current DC		500V 110V 24V 48V 60V 125V 220V	A A A A A A A	1.4 2.9 2.9 1.4 1.1 0.3 0.1
Operating current DC		500V 110V 24V 48V 60V 125V 220V	A A A A A A A	1.4 2.9 2.9 1.4 1.1 0.3 0.1
Operating current DC Operations Mechanical life		500V 110V 24V 48V 60V 125V 220V	A A A A A A A A A	1.4 2.9 1.4 1.1 0.3 0.1 0.6
Operating current DC Operations Mechanical life Electrical life		500V 110V 24V 48V 60V 125V 220V	A A A A A A A A Cycles	1.4 2.9 2.9 1.4 1.1 0.3 0.1 0.6 20000000
Operating current DC Operations Mechanical life Electrical life Safety related data	13	500V 110V 24V 48V 60V 125V 220V	A A A A A A A A Cycles	1.4 2.9 2.9 1.4 1.1 0.3 0.1 0.6 20000000
Operating current DC Operations Mechanical life Electrical life Safety related data		500V 110V 24V 48V 60V 125V 220V	A A A A A A A A Cycles cycles	1.4 2.9 2.9 1.4 1.1 0.3 0.1 0.6 20000000
Operating current DC Operations Mechanical life Electrical life Safety related data	13 Od according to EN/ISO 13489-1	500V 110V 24V 48V 60V 125V 220V 600V	A A A A A A A A cycles cycles	1.4 2.9 2.9 1.4 1.1 0.3 0.1 0.6 20000000 500000
Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B1	13 Od according to EN/ISO 13489-1 mec	500V 110V 24V 48V 60V 125V 220V 600V	A A A A A A A A Cycles cycles	1.4 2.9 1.4 1.1 0.3 0.1 0.6 20000000 500000 500000 20000000
	13 Od according to EN/ISO 13489-1	500V 110V 24V 48V 60V 125V 220V 600V	A A A A A A A A cycles cycles	1.4 2.9 2.9 1.4 1.1 0.3 0.1 0.6 20000000 500000

11BGP0901D024 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

11BGP0901D024 electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 24VDC, 1NC AUXILIARY CONTACT, REAR PCB SOLDER PIN

DC rated control voltage	re			V	24
DC operating voltage	JC			v	27
	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
Max avalas fraguenav			holding	W	3.2
Max cycles frequency Mechanical operation				cycles/h	3600
Operating times				Cycles/II	3000
Average time for Us co	ontrol				
	in AC				
		Closing NO			
		J	min	ms	12
			max	ms	21
		Opening NO			
			min	ms	9
			max	ms	18
		Closing NC			47
			min	ms	17
		Opening NC	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	ma	2
			min max	ms ms	3 5
		Opening NC	IIIdX	1113	0
			min	ms	11
			max	ms	17
UL technical data					
Full-load current (FLA)	for three-phase AC	motor			
			at 480V	Α	7.6
			at 600V	Α	6.1
Yielded mechanical pe					
	for single-phase A	C motor	440/4001		0 F
			110/120V	HP	0.5
	for three phase At	C motor	230V	HP	1.5
	for three-phase A		200/208V	HP	2
			200/208V 220/230V	HP	3
			460/480V	HP	5
			575/600V	HP	5

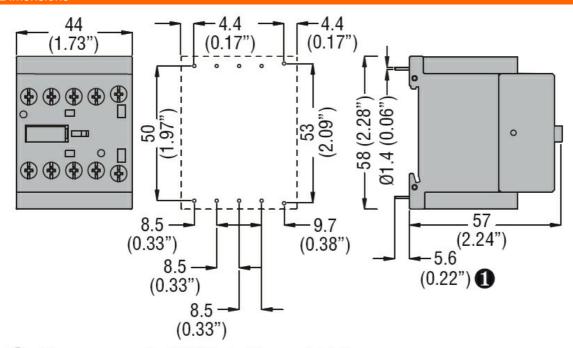
11BGP0901D024 The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



11BGP0901D024 electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 24VDC, 1NC AUXILIARY CONTACT, REAR PCB SOLDER PIN

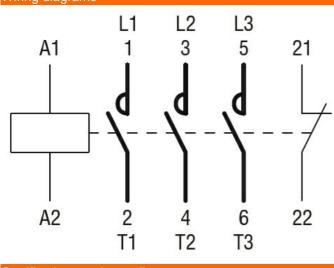
General USE

Contactor			
	AC current	А	20
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			



Recommended PCB drillings 1.7-2mm.





Certifications and 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		
	cURus	
	EAC	
ETIM classification	i i i i i i i i i i i i i i i i i i i	
		EC000066 -
ETIM 8.0		Power contactor,

Power contactor, AC switching