



Product designation Product type designation		•	Power contactor BG09
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		Α	20
Operational current le			
	AC-1 (≤40°C)	Α	20
	AC-1 (≤55°C)	Α	18
	AC-1 (≤70°C)	Α	15
	AC-3 (≤440V ≤55°C)	Α	9
	AC-4 (400V)	Α	4
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
	690V	kW	5
Rated operational power AC-1 (T≤40°C)			
	230V	kW	8
	400V	kW	14
	500V	kW	16
	690V	kW	22
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	Α	12
	48V	Α	10
	75V	Α	4
	110V	Α	3
	220V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	Α	15
	48V	Α	14
	75V	Α	9
	110V	Α	8
	220V	A	
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	Α	16
	48V	Α	16
	75V	Α	10
	110V	Α	10



	220V	Α	2
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	220 V		
ILC max current le in DCT with L/1\ 2 mis with 4 poles in series	≤24V	٨	16
	≤24 V 48 V	A A	16
	75V	A	10
	110V		10
		A	
IFO many automate in DOO DOS with L/D < 45 may with 4 males in agriculture.	220V	Α	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	10.43.7		_
	≤24V	A	7
	48V	Α	6
	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	8
	48V	Α	8
	75V	Α	5
	110V	Α	4
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	Α	10
	48V	Α	10
	75V	Α	6
	110V	Α	5
	220V	Α	0.8
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	10
	48V	Α	10
	75V	Α	6
	110V	Α	5
	220V	A	0.8
Short-time allowable current for 10s (IEC/EN60947-1)	ZZOV	A	96
Protection fuse			
1 Tote Citori Tuse	gG (IEC)	٨	20
		A	20
Making consists (DMC solve)	aM (IEC)	A	10
Making capacity (RMS value)		Α	92
Breaking capacity at voltage			70
	440V	A	72
	500V	Α	72
	690V	A	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	Ith	W	4
	AC3	W	0.81
Tightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.59
	max	lbin	0.74
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbft	0.8
		-	



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		max	lbft	0.74
Max number of wires	simultaneously connectable		nr.	2
Conductor section	•			
	Flexible w/o lug conductor section			
		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 sect		_	
		min	mm²	1.5
D	(' ' ' '	max	mm²	2.5
Mechanical features	ction according to IEC/EN 60529			IP20 when wired
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	224
Auxiliary contact chara	acteristics			
Type of contact				1 NC
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	signation			A600 - Q600
Operating current AC	15			
		230V	Α	3
		400V	Α	1.9
		500V	A	1.4
Operating current DC	12		_	
		110V	Α	2.9
Operating current DC	13	0.437		
		24V	A	2.9
		48V	A	1.4
		60V 110V	A	1.2
		110V 125V	A A	0.6 0.55
		220V	A	0.3
		600V	A	0.1
Operations			/\	
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data				
-	0d according to EN/ISO 13489-1			
		rated load	cycles	500000
		mechanical load	cycles	20000000
Mirror contats accordi	ng to IEC/EN 609474-4-1			yes
EMC compatibility				Yes
DC coil operating				
DC rated control volta	ge		V	24
DC operating voltage				
	pick-up			
		min	%Us	75
		max	%Us	115

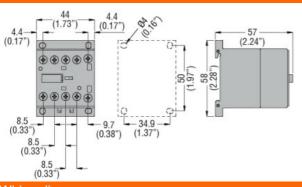


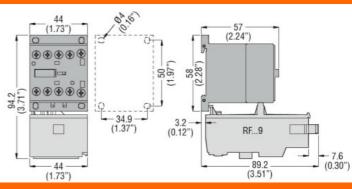
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	drop out				
	drop-out		min	%Us	10
			max	%Us	25
Average coil consumpt	ion ≤20°C				
			in-rush	W	3.2
			holding	W	3.2
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co					
	in AC	Clasina NO			
		Closing NO	min	ms	12
			max	ms	21
		Opening NO	max	1113	21
		Oponing IVO	min	ms	9
			max	ms	18
		Closing NC			
		-	min	ms	17
			max	ms	26
		Opening NC			
			min	ms	7
			max	ms	17
	in DC	01 : 110			
		Closing NO			4.0
			min	ms	18
		Opening NO	max	ms	25
		Opening NO	min	ms	2
			max	ms	3
		Closing NC			
		Ŭ	min	ms	3
			max	ms	5
		Opening NC			
			min	ms	11
			max	ms	17
UL technical data					
Full-load current (FLA)	for three-phase AC	motor	. 1001	Δ.	7.0
			at 480V	A	7.6
Yielded mechanical per	rformanco		at 600V	Α	6.1
riciucu mediamda per	for single-phase A	C motor			
	ioi single phase A	O motor	110/120V	HP	0.5
			230V	HP	1.5
	for three-phase AC	C motor			
	•		200/208V	HP	2
			220/230V	HP	3
			460/480V	HP	5
-			575/600V	HP	5
General USE					
	Contactor		- -	_	
01 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			AC current	Α	20
Short-circuit protection					
	High fault				

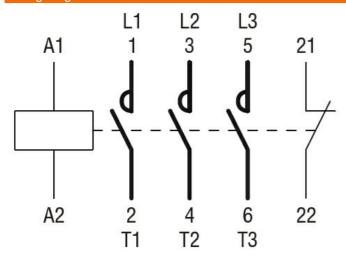


	Short circuit current	kA	100
	Fuse rating	Α	30
	Fuse class		J
Standard fault			
	Short circuit current	kA	5
	Fuse rating	Α	30
Contact rating of auxiliary contacts according to UL			A600 - Q600
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-50
	max	°C	+70
Storage temperature			
	min	°C	-60
	max	°C	+80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3
Dimensions			





Wiring diagrams



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



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11BG0901D024

Stycznik 3 polowy, 9A w AC3, wbudowany zestyk 1NC, 24VDC

CCC		
cULus		
EAC		

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching