OVato electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 48VDC, 1NO AUXILIARY CONTACT, REAR PCB SOLDER PIN

ENERGY AND AUTOMATION



Product designation Product type designation			Power contactor BGP09
Contact characteristics			
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	500
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		А	20
Operational current le			
	AC-1 (≤40°C)	А	20
	AC-1 (≤55°C)	А	18
	AC-1 (≤70°C)	А	15
	AC-3 (≤440V ≤55°C)	А	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
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)	А	20
	aM (IEC)	A	10
Making capacity (RMS value)		A	92
Breaking capacity at voltage			
	440V	А	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
	max	Nm	1
	min	Ibin	9
	max	Ibin	9
Tightening torque for coil terminal		• ·	
	min	Nm	0.8

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max min max max min	Nm Ibin Ibin Nr.	1 9 9 2 12
max	Ibin	9 2
max		2
	Nr.	
		12
		12
		12
min		
min		
	mm²	0.8
max	mm²	2.5
min	mm²	1.5
max	mm²	2.5
min	mm²	1.5
max	mm²	2.5
		IP00
normal		Vertical plan
		±30°
allowable		Screw / DIN rai
		35mm
		240
	9	240
mov		12
max		12
	Δ	10
	A	
		A600 - Q600
	_	
		3
		1.9
500V	A	1.4
110V	А	2.9
24V	А	2.9
48V	А	1.4
60V	А	1.1
	A	0.3
		0.1
600V	A	0.6
		20000000
	cycles	
	cycles	
	cycles cycles	500000
	cycles	500000
rated load	cycles cycles	500000 500000
rated load echanical load	cycles	500000
	cycles cycles	500000 500000
	cycles cycles	500000 500000 20000000
	max min max normal allowable max max 230V 400V 500V 110V 24V 48V 60V 125V 220V	max mm² min mm² mm² mm² mm² mm² g g max g max A 230V A 400V A 400V A 110V A 110V A 110V A 400 A 400V A 400 A 400 A 200 A 200V A 400V A 400V A

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DC rated control voltage	ge			V	48
DC operating voltage					
	pick-up				
			min	%Us	75
			max	%Us	115
	drop-out			0/11-	10
			min	%Us	10
Average coil consump	tion <20°C		max	%Us	25
Average con consump			in-rush	W	3.2
			holding	W	3.2
Max cycles frequency			Holding	vv	0.2
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us c	ontrol				
0	in AC				
		Closing NO			
		-	min	ms	12
			max	ms	21
		Opening NO			
			min	ms	9
			max	ms	18
		Closing NC			
			min	ms	17
		0	max	ms	26
		Opening NC		100.0	7
			min	ms	7 17
	in DC		max	ms	17
	III DC	Closing NO			
			min	ms	18
			max	ms	25
		Opening NO			
			min	ms	2
			max	ms	3
		Closing NC			
			min	ms	3
			max	ms	5
		Opening NC			
			min	ms	11
			max	ms	17
UL technical data	for three phase AC	otor			
Full-load current (FLA)	) for three-phase AC m	0101	at 480V	۸	7.6
			at 480V at 600V	A A	7.6 6.1
Yielded mechanical pe	erformance			Λ	0.1
noided meenameal pe	for single-phase AC	motor			
	ior origic pridoe AC		110/120V	HP	0.5
			230V	HP	1.5
	for three-phase AC n	notor	2007		
			200/208V	HP	2
			220/230V	HP	3
			460/480V	HP	5
			575/600V	HP	5

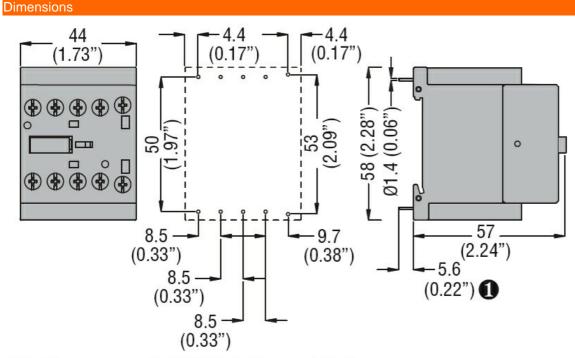


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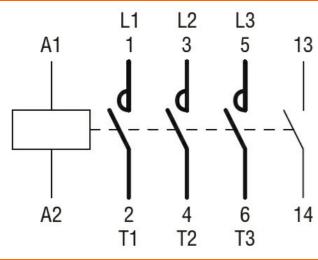
## **General USE**

	Contactor			
		AC current	А	20
Contact rating of aux	iliary 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 & Protect	tion			
Pollution degree				3
Dimonoiono				



Recommended PCB drillings 1.7-2mm.

## Wiring diagrams



Certifications and compliance



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## 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 classificatio	n	
		EC000066 -
ETIM 8.0		Power contactor,

Power contactor, AC switching