



## THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 50/60HZ, 230VAC, 1NO AUXILIARY CONTACT



Product designation			Auxiliary
•			contactor
Product type designation Contact characteristics			BG12
		Nr.	3
Number of poles Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency		KV	0
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	IIIax	A	20
Operational current le			20
Operational current le	AC-1 (≤40°C)	Α	20
	AC-1 (≤55°C)	A	18
	AC-1 (≤33°C) AC-1 (≤70°C)	A	15
	AC-3 (≤440V ≤55°C)	A	12
	AC-4 (400V)	A	4.8
Rated operational power AC-3 (T≤55°C)	7.0 + (+00V)		<del></del>
Nation operational power AO-5 (1=55-5)	230V	kW	3.2
	400V	kW	5.7
	415V	kW	6.2
	440V	kW	5.5
	500V	kW	5.5
	690V	kW	5
Rated operational power AC-1 (T≤40°C)	0001	1000	
ration operational power rio 1 (1=10 0)	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	Α	_
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





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	220V	Α	2
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
·	≤24V	Α	_
	48V	Α	_
	75V	Α	_
	110V	Α	_
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	2201		
120 max carrone to in 200 200 mar 2/10 = 10 mo mar 1 poloco in conco	≤24V	Α	7
	48V	A	6
	75V	A	2
	110V	A	1
	220V	A	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	220 V	^	
TEC max current le in DC3-DC5 with L/R \( \) 15ms with 2 poles in series	<04)/	۸	0
	≤24V	A	8
	48V	A	8
	75V	A	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	_
	48V	Α	_
	75V	Α	_
	110V	Α	_
	220V	Α	_
Short-time allowable current for 10s (IEC/EN60947-1)		Α	96
Protection fuse			
	gG (IEC)	Α	20
	aM (IEC)	Α	16
Making capacity (RMS value)	(==)	Α	120
Breaking capacity at voltage			
	440V	Α	96
	500V	A	72
	690V	A	72
Pasiatanas par pala (avaraga valua)	090 V	mΩ	10
Resistance per pole (average value)		11177	10
Power dissipation per pole (average value)	141	147	4
	Ith	W	4
<del></del>	AC-3	W	1.4
Tightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	lbin	9
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9



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		max	Ibin	9
Max number of wires	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	n		
		min	mm²	1.5
		max	mm²	2.5
	ction according to IEC/EN 60529			IP20
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	200
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact chara	acteristics		•	10
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	•			A600
Operating current AC	15	2001/		•
		230V	A	3
		400V	A	1.9
O	40	500V	Α	1.4
Operating current DC	12	440)/	Δ.	0.0
0 " 100	40	110V	Α	2.9
Operating current DC	13	0.417		
		24V	A	2.9
		48V	A	1.4
		60V	A	1.2
		110V	A	0.6
		125V	A	0.55
		220V	A	0.3
Operations		600V	А	0.1
Mechanical life			ovolco	20000000
Electrical life			cycles	
			cycles	500000
Safety related data	0d according to EN/ISO 42490 4			
renormance level B1	0d according to EN/ISO 13489-1	ا ممالم خوس		F00000
		rated load	cycles	500000
Minnen		mechanical load	cycles	20000000
	ing to IEC/EN 609474-4-1			YES
EMC compatibility				YES
AC coil operating	-0/0011			222
Rated AC voltage at 5	DU/bUHZ		V	230





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AC operating voltage					
	of 50/60Hz coil	powered at 50Hz			
		pick-up	•	0/11-	75
			min	%Us	75 115
		drop-out	max	%Us	115
		drop-out	min	%Us	20
			max	%Us	55
	of 50/60Hz coil	powered at 60Hz	max	7003	
	01 00/00112 0011	pick-up			
		pion ap	min	%Us	80
			max	%Us	115
		drop-out			
		·	min	%Us	20
			max	%Us	55
AC average coil cons	umption at 20°C				
		powered at 50Hz			
			in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil	powered at 60Hz			
			in-rush	VA	25
			holding	VA	3
	of 60Hz coil pov	vered at 60Hz			
			in-rush	VA	30
			holding	VA	4
	/00°C E0□=			1/1/	$\alpha$
Dissipation at holding				W	0.9
Max cycles frequency	,				
Max cycles frequency Mechanical operation	,			cycles/h	
Max cycles frequency Mechanical operation Operating times	,				
Max cycles frequency Mechanical operation Operating times	control				
Max cycles frequency Mechanical operation Operating times	,	Closing NO			
Max cycles frequency Mechanical operation Operating times	control	Closing NO		cycles/h	3600
Max cycles frequency Mechanical operation Operating times	control	Closing NO	min	cycles/h	3600
Max cycles frequency Mechanical operation Operating times	control			cycles/h	3600
Max cycles frequency Mechanical operation Operating times	control	Closing NO Opening NO	min max	cycles/h ms ms	3600 12 21
Max cycles frequency Mechanical operation Operating times	control		min max min	cycles/h ms ms ms	3600 12 21 9
Max cycles frequency Mechanical operation Operating times	control	Opening NO	min max	cycles/h ms ms	3600 12 21
Max cycles frequency Mechanical operation Operating times	control		min max min max	ms ms ms ms	3600 12 21 9 18
Max cycles frequency Mechanical operation Operating times	control	Opening NO	min max min	cycles/h ms ms ms	3600 12 21 9
Max cycles frequency Mechanical operation Operating times	control	Opening NO Closing NC	min max min max min	ms ms ms ms ms	3600 12 21 9 18 17
Max cycles frequency Mechanical operation Operating times	control	Opening NO	min max min max min	ms ms ms ms ms	3600 12 21 9 18 17
Max cycles frequency Mechanical operation Operating times	control	Opening NO Closing NC	min max min max min max	ms ms ms ms ms	3600 12 21 9 18 17 26
Max cycles frequency Mechanical operation Operating times	control	Opening NO Closing NC Opening NC	min max min max min max min	ms ms ms ms ms ms	3600 12 21 9 18 17 26 7
Max cycles frequency Mechanical operation Operating times	control in AC	Opening NO Closing NC	min max min max min max min	ms ms ms ms ms ms	3600 12 21 9 18 17 26 7
Max cycles frequency Mechanical operation Operating times	control in AC	Opening NO Closing NC Opening NC	min max min max min max min	ms ms ms ms ms ms	3600 12 21 9 18 17 26 7
Max cycles frequency Mechanical operation Operating times	control in AC	Opening NO  Closing NC  Opening NC  Closing NO	min max min max min max min max	ms ms ms ms ms ms	3600 12 21 9 18 17 26 7 17
Max cycles frequency Mechanical operation Operating times	control in AC	Opening NO Closing NC Opening NC	min max min max min max min max	ms ms ms ms ms ms ms	3600 12 21 9 18 17 26 7 17
Max cycles frequency Mechanical operation Operating times	control in AC	Opening NO  Closing NC  Opening NC  Closing NO	min max min max min max min max	ms ms ms ms ms ms ms	3600 12 21 9 18 17 26 7 17
Max cycles frequency Mechanical operation Operating times	control in AC	Opening NO  Closing NC  Opening NC  Closing NO  Opening NO	min max min max min max min max	ms ms ms ms ms ms	3600 12 21 9 18 17 26 7 17
Max cycles frequency Mechanical operation Operating times	control in AC	Opening NO  Closing NC  Opening NC  Closing NO	min max min max min max min max min max min max	ms ms ms ms ms ms ms ms	3600 12 21 9 18 17 26 7 17 18 25 2
Max cycles frequency Mechanical operation Operating times	control in AC	Opening NO  Closing NC  Opening NC  Closing NO  Opening NO	min max min	ms m	3600 12 21 9 18 17 26 7 17 18 25 2 3
	control in AC	Opening NO  Closing NC  Opening NC  Closing NO  Opening NO	min max min max min max min max min max min max	ms m	3600 12 21 9 18 17 26 7 17 18 25 2



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		min	ms	11	
		max	ms	17	
UL technical data					
Full-load current (FLA) fo	or three-phase AC motor				
		at 480V	Α	11	
<del></del>		at 600V	Α	11	
Yielded mechanical perfo					
f	for single-phase AC motor				
		110/120V	HP	0.5	
-		230V	HP	1.5	
1	for three-phase AC motor	200/2001	LID	2	
		200/208V	HP HP	3 3	
		220/230V 460/480V	пР HP	ა 7.5	
		575/600V	пг HP	7.5 10	
General USE		373/000V	115	10	
	Contactor				
`	Contactor	AC current	Α	20	
Short-circuit protection for	use 600V	AO Guirent	, ,		
	High fault				
!	g., 1441	Short circuit current	kA	100	
		Fuse rating	A	30	
		Fuse class		J	
	Standard fault				
		Short circuit current	kA	5	
		Fuse rating	Α	30	
		Fuse class		RK5	
Contact rating of auxiliary	y contacts according to UL			A600 - 0	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				2	
Pollution degree Dimensions				3	
***					
(0.17)	(2.24") (2.24") (3.88"	44 (1.73") (1.73") (1.37") (0.12) 44 (1.37") (0.12)	(2.28")	RF9 RF9 89.2 (3.51")	7.6 (0.30")
8.5 (0.33")		(1.73")		(3.51")	
Wiring diagrams					



**ENERGY AND AUTOMATION** 

## L2 L3 L1 A<sub>1</sub> 13

## Certifications and compliance

Compliance

A2

CSA C22.2 n° 60947-1

**T3** 

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