

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 50/60HZ, 230VAC, 1NC AUXILIARY CONTACT



Product designation Product type designation			Power contactor BG12
Contact characteristics			5012
Number of poles		nr.	3
Rated insulation voltage Ui		V	690
Rated impulse withstand voltage Uimp		kV	6
Operating frequency			
operating inequency	Operational frequency min	Hz	25
	Operational frequency max	Hz	400
Conventional free air thermal current Ith	Operational frequency max	A	20
Operating current			20
Operating outrent	Operational current AC1 (≤40°C)	Α	20
	Operational current AC3 (≤440V ≤55°C)	Α	12
	Operational current AC4 (400V)	Α	4.8
Rated operational power AC1 (T≤40°C)	operational denotity (4007)	- ' '	
	230V	kW	8
	400V	kW	14
	500V	kW	16
	690V	kW	22
Rated operational power AC3A (T≤55°C)	0001	IX V V	
rated operational power 7.007 (1=00 0)	Rated operational power AC3 (T≤55°C) 230\	/ k\//	3.2
	Rated operational power AC3 (T≤55°C) 400\		57
	Rated operational power AC3 (T≤55°C) 415\		6.2
	Rated operational power AC3 (T≤55°C) 440\		5.5
	Rated operational power AC3 (T≤55°C) 500\		5
	Rated operational power AC3 (T≤55°C) 690\		5
Short-time allowable current for 10s (IEC/EN	• • • • • • • • • • • • • • • • • • • •	A	96
Protection fuse			
1 1010010111000	gG (IEC)	Α	20
	aM (IEC)	Α	16
Making capacity (RMS value)	am (123)	A	120
Breaking capacity at voltage			.=0
Disaming supposts at voltage	Breaking capacity 440V	Α	96
	Breaking capacity 500V	Α	72
	Breaking capacity 690V	Α	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	Power dissipation pole (average value) Ith	W	4
	AC3	W	1.44
Tightening torque for terminals	7.00	••	
gcrimig torquo for torrimidio	min	Nm	0.8
	max	Nm	1
	min	lbft	0.59
	max	lbft	0.74
Tightening torque for coil terminal	mux		<u> </u>





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		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
		max	lbft	0.74
max number of wires	simultaneously connectable		nr.	2
Conductor section				_
Conductor Section	AWG			
	AWG			4.0
		min		18
		max		12
	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 section			
	1 3	min	mm²	1.5
		max	mm²	2.5
Power terminal protect	ction according to IEC/EN 60529	Пах		IP20 when wired
Auxiliary contact char				ir 20 when when
•	aciensiics			4.110
Type of contact				1 NC
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de				A600 - Q600
Operational current A	.C1 (≤40°C)		Α	20
Operating current AC	15			
. 0		230V	Α	3
		400V	Α	1.9
		500V	A	1.4
Operating current DC	240	300 V		1.7
Operating current DC	·12	440)/	^	0.0
0 11 100		110V	Α	2.9
Operating current DC	:13			
		24V	Α	2.9
		48V	Α	1.4
		60V	Α	1.1
		440)/	^	Screw / DIN rail
		110V	Α	35mm
		125V	Α	0.3
		220V	Α	0.1
		600V	A	0.6
Ambient conditions		000 V		0.0
Temperature	On the first terms and			
	Operating temperature	_		4.0
		min	°C	-40
		max	°C	60
	Storage temperature			_
		min	°C	-55
		max	°C	70
Max altitude			m	3000
Operating position				
apolating poolition		normal		Vertical plan
		allowable		±30°
Mounting				Screw / DIN rail 35mm
Weight			0	0.183
v v Gigitt			g	0.100



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Operations				
Mechanical life			Cycles	20000000
Electrical life			Cycles	500000
Safety related data			- ,	
	0d according to EN/ISO 13489-1			
	•	rated load	Cicli	500000
		mechanical load	Cicli	20000000
Mirror contats accordi	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	0.75
		max	%Us	1.15
	drop-out			
		min	%Us	0.2
	. (50/0011	max	%Us	0.55
	of 50/60Hz coil powered at 60Hz			
	pick-up		0/11-	0.0
		min	%Us %Us	0.8 1.15
	drop-out	max	7005	1.15
	diop-out	min	%Us	0.2
		max	%Us	0.55
	of 60Hz coil powered at 60Hz	max	7000	0.00
	pick-up			
	ρίοι αρ	min	%Us	0.75
		max	%Us	1.15
	drop-out		,,,,,	
		min	%Us	0.2
		max	%Us	0.55
AC operating voltage				
	of 50/60Hz coil 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 powered at 60Hz			
		in-rush	VA	30
		holding	VA	4
Dissipation at holding	≤20°C 50Hz		W	0.95
OC coil operating				
DC rated control volta	ge			400
<u> </u>		max	V	480
OC operating voltage	10000			
Average coil consuption	on ≤20°C	_		
		in-rush	W	3.2
		holding	W	3.2
Max cycles frequency			0 ' "	2225
Mechanical operations	S		Cycles/h	3600
Operating times				
Average time for Us o	ontrol			



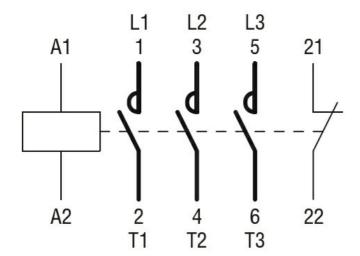


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in AC			
Closing NO	1		
3 - 3 - 3	min	ms	12
	max	ms	21
Opening No	0		
	min	ms	9
	max	ms	18
Closing NC			
	min	ms	17
On an in a NV	max	ms	26
Opening No		 .	7
	min	ms	, 17
UL technical data	max	ms	17
Full-load current (FLA) for three-phase AC motor			
i an load durion (i Lay for three-phase ato motor	at 480V	Α	11
	at 600V	A	11
Yielded mechanical performance	u. 000 V	- , ,	
for single-phase AC motor			
3 1 7 3 1	at 110/120V	hp	0.5
	at 230V	hp	1.5
for three-phase AC motor		•	
	at 200/208V	hp	3
	at 220/230V	hp	3
	at 460/480V	hp	7.5
	at 575/600V	hp	10
Contact rating of auxiliary contacts according to UL			A600 - Q600
General USE			
Contactor			
	AC current	Α	20
Other features			_
Pollution degree			3
Dimensions			
4.4 (0.17") (0.17") (0.18") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33")	44 (1.73") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37")	(2.28") 5	RF9 -7.6 (0.30")
Wiring diagrams			



ENERGY AND AUTOMATION



Certifications and compliance

Certifications

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

Compliance

CCC

cULus

EAC

ETIM 6 classification

EC000066 - Power contactor, AC switching