

Three-pole contactor, IEC operating current le (AC3) = 12A, AC coil 50/60Hz, 230VAC, 1NC auxiliary contact



Product designation			Power contactor
Product type designation			BG12
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	C-3 (≤440V ≤55°C)	Α	12
	AC-4 (400V)	A	4.8
Rated operational power AC-3 (T≤55°C)			
	230V	kW	3.2
	400V	kW	5.7
	415V	kW	6.2
	440V	kW	5.5
	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	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
	220V	Α	2

IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series



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	≤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		_	
	≤24V	Α	7
	48V	Α	6
	75V	Α	2
	110V	A	1
IFO areas assemble in DO2 DO5 with L/D < 45 are with 0 and a in action	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	40.4V	٨	0
	≤24V	A	8
	48V	A	8
	75V	A	5
	110V 220V	A	4
IEC may ourrent to in DC2 DC5 with L/D < 15mg with 2 polog in agrice	2200	A	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	<24)/	۸	10
	≤24V 48V	A	10 10
	46 V 75 V	A A	
	110V	A	6 5
	220V	A	0,8
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	220 V		0,0
TEC Max current le in DC3-DC3 with E/N 3 13/113 with 4 poles in series	≤24V	Α	
	48V	A	_
	75V	A	_
	110V	A	_
	220V	A	_
Short-time allowable current for 10s (IEC/EN60947-1)	2201	A	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	Α	72
	690V	Α	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
,	Ith	W	4
	AC3	W	1.44
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
	max	lbin	9
Max number of wires simultaneously connectable		Nr.	2

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Conductor section	ANAICO (IC a real)		
	AWG/Kcmil		12
	Flexible w/o lug conductor section		12
	min	mm²	0.75
	max		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
	ction according to IEC/EN 60529		IP20 when wired
Mechanical features			
Operating position			M. C. L.
	norma		Vertical plan
	allowable		±30° Screw / DIN rail
Fixing			35mm
 Weight		g	183
Conductor section		9	100
Conductor Gootlon	AWG/kcmil conductor section		
	max		12
Auxiliary contact char			
Thermal current Ith		Α	10
IEC/EN 60947-5-1 de	esignation		A600 - Q600
Operating current AC	15		
	230V	Α	3
	400V		1.9
	500\	Α	1.4
Operating current DC			
	110V	Α	2.9
Operating current DC		_	
	24V		2.9
	48V		1.4
	60V	Α	1.2
	4401	Λ	
	110V		0.6
	125V	Α	0.55
	125V 220V	A A	0.55 0.3
Operations	125V	A A	0.55
Operations Mechanical life	125V 220V	A A A	0.55 0.3 0.1
Mechanical life	125V 220V	A A A cycles	0.55 0.3 0.1
Mechanical life Electrical life	125V 220V	A A A	0.55 0.3 0.1
Mechanical life Electrical life Safety related data	125V 220V 600V	A A A cycles	0.55 0.3 0.1
Mechanical life Electrical life Safety related data	125V 220V 600V	A A A cycles	0.55 0.3 0.1 20000000 500000
Mechanical life Electrical life Safety related data	125V 220V 600V 10d according to EN/ISO 13489-1	A A A Cycles cycles	0.55 0.3 0.1 20000000 500000
Mechanical life Electrical life Safety related data Performance level B1	125V 220V 600V	A A A Cycles cycles	0.55 0.3 0.1 20000000 500000
Mechanical life Electrical life Safety related data Performance level B1	125V 220V 600V 10d according to EN/ISO 13489-1 rated load mechanical load	A A A Cycles cycles	0.55 0.3 0.1 20000000 500000 500000 20000000
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accord	125V 220V 600V 10d according to EN/ISO 13489-1 rated load mechanical load	A A A Cycles cycles	0.55 0.3 0.1 20000000 500000 500000 200000000 yes
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility	125V 220V 600V 10d according to EN/ISO 13489-1 rated load mechanical load ing to IEC/EN 609474-4-1	A A A Cycles cycles	0.55 0.3 0.1 20000000 500000 500000 200000000 yes

11BG1201A230 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

of 50/60Hz coil powered at 50Hz



Three-pole contactor, IEC operating current le (AC3) = 12A, AC coil 50/60Hz, 230VAC, 1NC auxiliary contact

		pick-up			
			min	%Us	75
			max	%Us	115
		drop-out		0/116	20
			min	%Us %Us	20 55
	of 50/60Hz coil pow	arad at 60Hz	max	/005	33
	or 50/60112 con pow	pick-up			
		pick up	min	%Us	80
			max	%Us	115
		drop-out		,,,,,	
		'	min	%Us	20
			max	%Us	55
AC average coil consu	umption at 20°C				
	of 50/60Hz coil pow	ered at 50Hz			
			in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil pow	ered at 60Hz			
			in-rush	VA	25
			holding	VA	3
	of 60Hz coil powere	d at 60Hz			
			in-rush	VA	30
			holding	VA	4
Dissipation at holding	≤20°C 50Hz			W	0.95
Max cycles frequency				a) (a) a /b	2000
Mechanical operation Operating times				cycles/h	3600
Operating times					
	ontrol				
Average time for Us of					
	ontrol in AC	Closing NO			
		Closing NO	min	ms	12
		Closing NO	min max	ms ms	12 21
		Closing NO Opening NO			
		-			9
		Opening NO	max	ms	21
		-	max min max	ms ms ms	21 9 18
		Opening NO	max min max min	ms ms ms	2191817
		Opening NO Closing NC	max min max	ms ms ms	21 9 18
		Opening NO	max min max min max	ms ms ms ms	21 9 18 17 26
		Opening NO Closing NC	max min max min max min	ms ms ms ms ms	21 9 18 17 26
	in AC	Opening NO Closing NC	max min max min max	ms ms ms ms	21 9 18 17 26
		Opening NO Closing NC Opening NC	max min max min max min	ms ms ms ms ms	21 9 18 17 26
	in AC	Opening NO Closing NC	max min max min max min max	ms ms ms ms ms	21 9 18 17 26 7 17
	in AC	Opening NO Closing NC Opening NC	max min max min max min max min max	ms ms ms ms ms ms ms ms	21 9 18 17 26 7 17
	in AC	Opening NO Closing NC Opening NC Closing NO	max min max min max min max	ms ms ms ms ms	21 9 18 17 26 7 17
	in AC	Opening NO Closing NC Opening NC	max min max min max min max min max	ms ms ms ms ms ms	21 9 18 17 26 7 17
	in AC	Opening NO Closing NC Opening NC Closing NO	max min max min max min max min max	ms ms ms ms ms ms ms ms ms	21 9 18 17 26 7 17
	in AC	Opening NO Closing NC Opening NC Closing NO	max min max min max min max min max min max min	ms	21 9 18 17 26 7 17 18 25
	in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	max min max min max min max min max min max min	ms	21 9 18 17 26 7 17 18 25 2 3
	in AC	Opening NO Closing NC Opening NO Closing NO Opening NO Closing NO	max min max min max min max min max min max min max	ms	21 9 18 17 26 7 17 18 25 2 3
	in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	max min max min max min max min max min max min max min max min max	ms	21 9 18 17 26 7 17 18 25 2 3 3 5
	in AC	Opening NO Closing NC Opening NO Closing NO Opening NO Closing NO	max min max min max min max min max min max min max min max min max min	ms	21 9 18 17 26 7 17 18 25 2 3

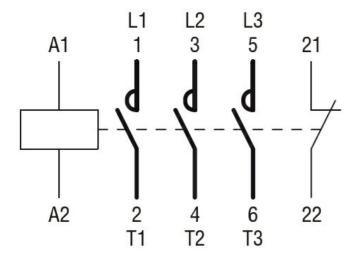
ENERGY AND AUTOMATION

Three-pole contactor, IEC operating current le (AC3) = 12A, AC coil 50/60Hz, 230VAC, 1NC auxiliary contact

UL technical data			
Full-load current (FLA) for three-phase AC motor			
`	at 480V	Α	11
	at 600V	Α	11
Yielded mechanical performance			
for single-phase AC motor			
	110/120V	HP	0.5
	230V	HP	1.5
for three-phase AC motor			
	200/208V	HP	3
	220/230V	HP	3
	460/480V	HP	7.5
	575/600V	HP	10
General USE			
Contactor			
	AC current	Α	20
Short-circuit protection fuse, 600V			
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			
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	(1.73")	(2	57 .24")
(0.17") (0.17") (0.33") (0.38") (0.38") (0.38") (0.38") (0.38") (0.38") (0.38")	●●●●	(2.28") 5	RF9
(0.33") 8.5 (0.33")	44 (1.73")	-	89.2 (3.51") 7.6 (0.30"
Wiring diagrams			



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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

CCC

cULus

EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching