



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 110VDC, **1NC AUXILIARY CONTACT**



Product designation Power contactor Product type designation BG12

Froduct type designation			DG 12
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	12
	AC-4 (400V)	Α	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





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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 canoncio in 200 200 mai 2/10 - 10mb mai i poloci 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-DC3 with L/R \(\) 13ms with 2 poles in series	~24) /	۸	0
	≤24V	A	8
	48V	A	8
	75V	A	5
	110V	A	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	Α	72
Resistance per pole (average value)	0001	mΩ	10
Power dissipation per pole (average value)		11122	10
i owei dissipation per pole (average value)	Ith	W	4
Tightoning targue for terminals	AC-3	W	1.44
Tightening torque for terminals		N 1 .	0.0
	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 min max min max min max min max min max max mormal wable	Mr. mm² mm² mm² mm² mm² g	12 0.75 2.5 1.5 2.5 1.5 2.5 IP20 when properly wired Vertical plan ±30° Screw / DIN rail 35mm 213
min max min max min max	mm² mm² mm² mm² mm²	0.75 2.5 1.5 2.5 1.5 2.5 IP20 when properly wired Vertical plan ±30° Screw / DIN rail 35mm 213
min max min max min max	mm² mm² mm² mm² mm²	0.75 2.5 1.5 2.5 1.5 2.5 IP20 when properly wired Vertical plan ±30° Screw / DIN rail 35mm 213
min max min max min max	mm² mm² mm² mm² mm²	0.75 2.5 1.5 2.5 1.5 2.5 IP20 when properly wired Vertical plan ±30° Screw / DIN rail 35mm 213
max min max min max	mm² mm² mm² mm² mm²	2.5 1.5 2.5 1.5 2.5 IP20 when properly wired Vertical plan ±30° Screw / DIN rail 35mm 213
max min max min max	mm² mm² mm² mm² mm²	2.5 1.5 2.5 1.5 2.5 IP20 when properly wired Vertical plan ±30° Screw / DIN rail 35mm 213
min max min max	mm² mm² mm² mm²	1.5 2.5 1.5 2.5 IP20 when properly wired Vertical plan ±30° Screw / DIN rail 35mm 213
max min max normal wable	mm² mm² mm²	2.5 1.5 2.5 IP20 when properly wired Vertical plan ±30° Screw / DIN rail 35mm 213
max min max normal wable	mm² mm² mm²	2.5 1.5 2.5 IP20 when properly wired Vertical plan ±30° Screw / DIN rail 35mm 213
min max	mm² mm²	1.5 2.5 IP20 when properly wired Vertical plan ±30° Screw / DIN rail 35mm 213
max normal wable	mm²	2.5 IP20 when properly wired Vertical plan ±30° Screw / DIN rail 35mm 213
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normal wable	g	Vertical plan ±30° Screw / DIN rail 35mm 213
wable		Vertical plan ±30° Screw / DIN rail 35mm 213
wable		Vertical plan ±30° Screw / DIN rail 35mm 213
wable		±30° Screw / DIN rail 35mm 213
wable		±30° Screw / DIN rail 35mm 213
wable		±30° Screw / DIN rail 35mm 213
		Screw / DIN rail 35mm 213
max		12
max		12
max	A	
max	A	
max	A	
	Α	10
	Α	10
		A600 - Q600
230V	Α	3
400V	Α	1.9
500V	A	1.4
110V	A	2.9
	Α	2.9
	Α	1.4
	Α	1.2
	Α	0.6
		0.55
		0.3
600V	А	0.1
	ovolco	20000000
		2000000
	cycles	500000
d lood	ovolco	500000
	-	500000
11 1080	cycles	20000000
		yes
		yes
	110V 24V 48V 60V 110V 125V 220V 600V	110V A 24V A 48V A 60V A 110V A 125V A 220V A 600V A cycles cycles





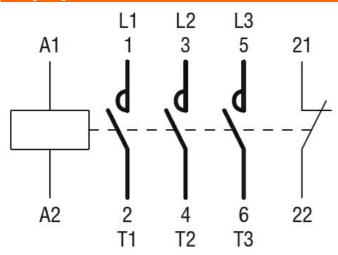
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DC rated control voltage	10			V	110
DC operating voltage	<i>)</i> -			-	
, ,	pick-up				
			min	%Us	75
			max	%Us	115
	drop-out				
			min	%Us	10
			max	%Us	25
Average coil consumpt	tion ≤20°C		2	107	0.0
			in-rush	W	3.2
Max cycles frequency			holding	W	3.2
Mechanical operation				cycles/h	3600
Operating times				Cycles/11	3000
Average time for Us co	ontrol				
	in AC				
		Closing NO			
		-	min	ms	12
			max	ms	21
		Opening NO			
			min	ms	9
			max	ms	18
		Closing NC			47
			min	ms	17
		Opening NC	max	ms	26
		Opening NC	min	ms	7
			max	ms	, 17
	in DC				
		Closing NO			
		-	min	ms	18
			max	ms	25
		Opening NO			
			min	ms	2
		Ola aire a NO	max	ms	3
		Closing NC	min	me	2
			max	ms ms	3 5
		Opening NC	Παλ	1113	J
		- Fermig 110	min	ms	11
			max	ms	17
UL technical data					
Full-load current (FLA)	for three-phase AC m	notor			
			at 480V	Α	11
			at 600V	A	11
Yielded mechanical pe					
	for single-phase AC	motor	****		
			110/120V	HP	0.5
	for three phase AO	motor	230V	HP	1.5
	for three-phase AC	HOTOF	200/208V	HP	3
			200/208V 220/230V	HP	3
			460/480V	HP	7.5
			575/600V	HP	10
					-

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 110VDC, **1NC AUXILIARY CONTACT**

General USE					
General USE	Contactor				
	Contactor	AC current	Α	20	
Short-circuit protection	n 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	
		Fuse class		RK5	
	iary 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 & Protecti	on				
Pollution degree				3	
Dimensions					
4.4 (0.17") (0.17") (0.17") (0.17") (0.38") (0.33") (0.33") (0.38") (0.33") Wiring diagrams	34.9 (1.37")	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	89.2 (3.51")	7.6 (0.30")



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1



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11BG1201D110

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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