



Product designation Product type designation			Power contactor BG12
Contact characteristics			DOTZ
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		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	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 $L/R \le 1$ ms with 1 poles in series	.0.0.4		10
	≤24V	A	12
	48V	A	10
	75V	A	4
	110V	A	3
IFC may autrent to in DC1 with L/D < 1mg with 2 palagin agrice	220V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series	-0111	۸	4 5
	≤24V	A	15
	48V 75V	A	14
	110V	A A	9 8
	220V	A	o
IEC max current le in DC1 with L/R \leq 1ms with 3 poles in series	2201	~	
	≤24V	А	16
	48V	A	16
	48V 75V	A	10
	110V	A	10
	1100	Λ	

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	220V	А	2
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	А	_
	48V	А	_
	75V	А	-
	110V	А	_
	220V	А	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	А	7
	48V	A	6
	75V	A	2
	110V	A	1
	220V	A	_
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series	2201	71	
	≤24V	А	8
	48V	A	8
	40V 75V	A	5
	110V	A	4
	220V	A	
IFC may autrent to in DC2 DC5 with L/D < 15ma with 2 pales in parise	2200	A	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series	-041/	^	40
	≤24V	A	10
	48V	A	10
	75V	A	6
	110V	A	5
	220V	A	0,8
IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series			
	≤24V	A	-
	48V	А	_
	75V	Α	-
	110V	А	-
	220V	A	
Short-time allowable current for 10s (IEC/EN60947-1)		Α	96
Protection fuse			
	gG (IEC)	А	20
	aM (IEC)	Α	16
Making capacity (RMS value)		Α	120
Breaking capacity at voltage			
	440V	А	96
	500V	А	72
	690V	А	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	Ith	W	4
	AC-3	W	1.44
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
	max	Nm	1
	min	Ibin	9
	111111		5

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Max number of wires	simultaneously connectable	max	Ibin Nr.	9
Conductor section			INI.	2
	AWG/Kcmil			
		max		12
	Flexible w/o lug conductor section	max		12
		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			
		min	mm²	1.5
		max	mm²	2.5
Power terminal prote	ection according to IEC/EN 60529			IP20 when
-	g			properly wired
Mechanical features				
Operating position				Vortical plan
		normal allowable		Vertical plan ±30°
		ailowable		±30 Screw / DIN rai
Fixing				35mm
Weight			g	179
Conductor section			9	
	AWG/kcmil conductor section			
		max		12
Auxiliary contact char	racteristics			
Thermal current Ith			А	10
IEC/EN 60947-5-1 de	esignation			A600 - Q600
Operating current AC	;15			
		230V	А	3
		400V	А	1.9
			Α	1.4
		500V		
Operating current DC	212			
		500V 110V	A	2.9
Operating current DC		110V	A	2.9
		110V 24V	A	2.9 2.9
		110V 24V 48V	A A A	2.9 2.9 1.4
		110V 24V 48V 60V	A A A A	2.9 2.9 1.4 1.2
		110V 24V 48V 60V 110V	A A A A A	2.9 2.9 1.4 1.2 0.6
		110V 24V 48V 60V 110V 125V	A A A A A A	2.9 2.9 1.4 1.2 0.6 0.55
		110V 24V 48V 60V 110V 125V 220V	A A A A A A A	2.9 2.9 1.4 1.2 0.6 0.55 0.3
Operating current DC		110V 24V 48V 60V 110V 125V	A A A A A A	2.9 2.9 1.4 1.2 0.6 0.55
		110V 24V 48V 60V 110V 125V 220V	A A A A A A A A	2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current DC		110V 24V 48V 60V 110V 125V 220V	A A A A A A A Cycles	2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000
Operating current DC Operations Mechanical life Electrical life		110V 24V 48V 60V 110V 125V 220V	A A A A A A A A	2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current DC Operations Mechanical life Electrical life Safety related data	213	110V 24V 48V 60V 110V 125V 220V	A A A A A A A Cycles	2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000
Operating current DC Operations Mechanical life Electrical life Safety related data		110V 24V 48V 60V 110V 125V 220V	A A A A A A A Cycles cycles	2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000
Operating current DC Operations Mechanical life Electrical life Safety related data	213 10d according to EN/ISO 13489-1	110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles	2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B	213 10d according to EN/ISO 13489-1	110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles cycles	2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000

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Rated AC voltage				V	110
C operating volta	-				
	of 50/60Hz coi	l powered at 50Hz			
		pick-up		0/11	75
			min	%Us	75
		drop-out	max	%Us	115
		diop-out	min	%Us	20
			max	%Us	20 55
	of 50/60Hz coi	l powered at 60Hz	Παλ	/003	
	01 00/00112 001	pick-up			
		h.e ah	min	%Us	80
			max	%Us	115
		drop-out			
			min	%Us	20
			max	%Us	55
AC average coil co	onsumption at 20°C				
	of 50/60Hz coi	l powered at 50Hz			
			in-rush	VA	30
			holding	VA	4
	of 50/60Hz coi	l powered at 60Hz			
			in-rush	VA	25
			holding	VA	3
	of 60Hz coil po	owered at 60Hz			
			in-rush	VA	30
			holding	VA	4
			holding	VA W	0.95
Dissipation at hold Max cycles freque	ncy		-	W	0.95
Max cycles freque Mechanical operati	ncy		-		0.95
Max cycles freque Mechanical operati Operating times	ncy ion		-	W	0.95
Max cycles freque Mechanical operati Operating times	ncy ion Is control		-	W	0.95
Max cycles freque Mechanical operati Operating times	ncy ion	Closing NO	-	W	0.95
Max cycles freque Mechanical operati Operating times	ncy ion Is control	Closing NO	-	W cycles/h	0.95 3600
Max cycles freque Mechanical operati Operating times	ncy ion Is control	Closing NO		W	0.95
Max cycles freque Mechanical operati Operating times	ncy ion Is control	Closing NO Opening NO	min	W cycles/h ms	0.95 3600 12
Max cycles freque Mechanical operati Operating times	ncy ion Is control		min	W cycles/h ms	0.95 3600 12
	ncy ion Is control	Opening NO	min max	W cycles/h ms ms	0.95 3600 12 21
Max cycles freque Mechanical operati Operating times	ncy ion Is control		min max min max	W cycles/h ms ms ms	0.95 3600 12 21 9 18
Max cycles freque Mechanical operati Operating times	ncy ion Is control	Opening NO	min max min	W cycles/h ms ms ms ms ms	0.95 3600 12 21 9 18 17
Max cycles freque Mechanical operati Operating times	ncy ion Is control	Opening NO Closing NC	min max min max	W cycles/h ms ms ms ms	0.95 3600 12 21 9 18
Max cycles freque Mechanical operati Operating times	ncy ion Is control	Opening NO	min max min max min max	W cycles/h ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26
Max cycles freque Mechanical operati Operating times	ncy ion Is control	Opening NO Closing NC	min max min max min max min max min	W cycles/h ms ms ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26 7
Max cycles freque Mechanical operati Operating times	ncy ion Is control in AC	Opening NO Closing NC	min max min max min max	W cycles/h ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26
Max cycles freque Mechanical operati Operating times	ncy ion Is control	Opening NO Closing NC Opening NC	min max min max min max min max min	W cycles/h ms ms ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26 7
Max cycles freque Mechanical operati Operating times	ncy ion Is control in AC	Opening NO Closing NC	min max min max min max min max	W cycles/h ms ms ms ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26 7 17
Max cycles freque Mechanical operati Operating times	ncy ion Is control in AC	Opening NO Closing NC Opening NC	min max min max min max min max min max	W cycles/h ms ms ms ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26 7 17 18
Max cycles freque Mechanical operati Operating times	ncy ion Is control in AC	Opening NO Closing NC Opening NC Closing NO	min max min max min max min max	W cycles/h ms ms ms ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26 7 17
Max cycles freque Mechanical operati Operating times	ncy ion Is control in AC	Opening NO Closing NC Opening NC	min max min max min max min max min max	W cycles/h ms ms ms ms ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26 7 17 17 18 25
Max cycles freque Mechanical operati Operating times	ncy ion Is control in AC	Opening NO Closing NC Opening NC Closing NO	min max min max min max min max min max min max min max	W cycles/h ms ms ms ms ms ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26 7 17 17 18 25 2
Max cycles freque Mechanical operati Operating times	ncy ion Is control in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	min max min max min max min max min max	W cycles/h ms ms ms ms ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26 7 17 17 18 25
Max cycles freque Mechanical operati Operating times	ncy ion Is control in AC	Opening NO Closing NC Opening NC Closing NO	min max min max min max min max min max min max min max	W cycles/h ms ms ms ms ms ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26 7 17 17 18 25 2

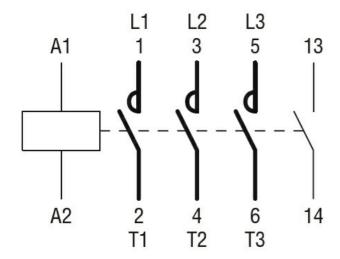
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	Opening	NC		
		min	ms	11
		max	ms	17
UL technical data				
Full-load current (FL	A) for three-phase AC motor			
		at 480V	А	11
		at 600V	Α	11
Yielded mechanical	performance			
	for single-phase AC motor			
		110/120V	HP	0.5
		230V	HP	1.5
	for three-phase 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 protecti	on fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	А	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	30
		Fuse class		RK5
	ciliary 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	ction			
Pollution degree				3
Dimensions				
4.4 (0.17") (0.18") (0		3.2 3.2 (1.37") 3.2 (0.12"	(2.28°) 5	57 24") RF9
8.5 (0.33")		44 <u>4</u> (1.73")	La	
Wiring diagrams				





Certifications and compliance

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