





Product type designation	Product designation			Auxiliary contactor
Number of poles	,, <u> </u>			BG12
Rated insulation voltage Ui IEC/EN V 690 Rated impulse withstand voltage Uimp kV 6 Operational frequency min Hz 25 imax Hz 400 Hz 400 IEC Conventional free air thermal current Ith A 20 20 Operational current le AC-1 (≤40°C) A 18 AC-1 (55°C) A 18 AC-1 (570°C) A 15 AC-1 (570°C) A 15 AC-3 (5440V ≤5°C) A 12 AC-4 (400V) A 4.8 AC-4 (400V) KW 5.5 500V kW 5.5 500V kW 5.5 500V kW 5.5 500V kW 5.6 690V kW 1.4 40V 4.0 4.0 4.0 4.0 <td></td> <td></td> <td></td> <td></td>				
Rated impulse withstand voltage Uimp	-			
Department Frequency Min Hz 25 max Hz 400 EC Conventional free air thermal current lth				
Process			kV	6
EC Conventional free air thermal current Ith	Operational frequency			
EC Conventional free air thermal current Ith		min	Hz	25
Operational current le AC-1 (≤40°C) A 20 AC-1 (≤55°C) A 18 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) 230V kW 3.2 400V kW 5.5 500V kW 5 Rated operational power AC-1 (T≤40°C) 230V kW 8 400V kW 1 500V kW 1 500V kW 2 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V A 12 48V A 10 75V A 9 110V A 8 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series 524V A 16 48V A 16 48V A 16 48V		max		400
AC-1 (≤40°C)	IEC Conventional free air thermal current Ith		Α	20
AC-1 (≤55°C)	Operational current le			
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) 230V kW 3.2 400V kW 5.7 415V kW 6.2 4440V kW 5.5 500V kW 5.5 500V kW 5.6 690V kW 5.6 690V kW 5.7 Rated operational power AC-1 (T≤40°C) 230V kW 8 400V kW 14 500V kW 14 500V kW 14 500V kW 16 699V kW 22 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V A 12 48V A 10 75V A 4 1110V A 3 220V A 7 IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 15 48V A 16 75V A 9 1110V A 8 220V A 7 IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series		AC-1 (≤40°C)	Α	20
AC-3 (≤440V ≤55°C) A 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 14 500V kW 16 690V kW 22 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V A 12 48V A 10 75V A 4 110V A 3 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 15 48V A 14 75V A 9 110V A 8 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			Α	18
AC-4 (400V)			Α	
Rated operational power AC-3 (T≤55°C) 230V kW 3.2 400V kW 5.7 415V kW 6.2 4440V kW 5.5 500V kW 5 690V kW 5 690V kW 5 Rated operational power AC-1 (T≤40°C) Rated operational power AC-1 (T≤40°C) 230V kW 8 400V kW 14 500V kW 14 500V kW 16 690V kW 22 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V A 12 48V A 10 75V A 4 110V A 3 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 15 48V A 15 48V A 15 48V A 15 48V A 14 75V A 9 110V A 8 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series		AC-3 (≤440V ≤55°C)	Α	12
230V kW 3.2 400V kW 5.7 415V kW 6.2 440V kW 5.5 500V kW 5.5 500V kW 5 500V kW 14 500V kW 14 500V kW 16 690V kW 22 500V kW 22 500V		AC-4 (400V)	Α	4.8
400V	Rated operational power AC-3 (T≤55°C)			
A15V		230V	kW	3.2
A440V kW 5.5 500V kW 5 690V kW 14 600V kW 14 600V kW 22 600V 600V		400V	kW	5.7
Soov kW 5		415V	kW	6.2
Rated operational power AC-1 (T≤40°C) 230V kW 8 400V kW 14 500V kW 16 690V kW 22		440V	kW	5.5
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 A 12 48V A 10 75V A 4 110V A 3 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 15 48V A 14 75V A 9 110V A 8 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 15 48V A 14 75V A 9 110V A 8 220V A -		500V	kW	5
		690V	kW	5
A00V kW 14 500V kW 16 690V kW 22	Rated operational power AC-1 (T≤40°C)			_
Soov kW 16 690V kW 22		230V	kW	8
EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V		400V	kW	14
EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V		500V	kW	16
		690V	kW	22
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
T5V		≤24V	Α	12
110V A 3 220V A -		48V	Α	10
EC max current le in DC1 with L/R \leq 1ms with 2 poles in series \leq 24V A 15 48V A 14 75V A 9 110V A 8 220V A -		75V	Α	4
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V		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
EC max current le in DC1 with L/R \leq 1ms with 3 poles in series \leq 24V		75V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 16 48V A 16 75V A 10		110V	Α	8
≤24V A 16 48V A 16 75V A 10		220V	Α	
48V A 16 75V A 10	IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
75V A 10		≤24V	Α	16
		48V	Α	16
110V A 10		75V	Α	10
		110V	Α	10



	220V	Α	2
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	_
	48V	A	_
	75V	A	_
	110V	A	_
			_
	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	Α	1
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
The max sarront to in 200 200 with 210 = 10mb with 2 polos in conto	≤24V	Α	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	A	0,8
IEC may current to in DC2 DC5 with L/D < 15mg with 4 poles in series	220 V		0,0
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	2041 /	^	
	≤24V	A	_
	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)	aw (ILO)	A	120
			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
	AC-3	W	1.4
Tightening torque for terminals	,,,,,	• • •	•••
rightoning torque for terminals	:-	Nima	0.0
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
	max	lbin	9
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
			-



		max	Ibin	9
Max number of wires s	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
	tion 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	cteristics			4.0
Thermal current Ith			Α	10
IEC/EN 60947-5-1 des	•			A600
Operating current AC1	5	2001/		
		230V	A	3
		400V	A	1.9
On and in a summer DOA	0	500V	A	1.4
Operating current DC1	2	440)/	Δ.	0.0
0 1 100		110V	Α	2.9
Operating current DC1	3	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	Α	0.1
Operations Mechanical life			ovolco	20000000
Electrical life			cycles	
			cycles	500000
Safety related data	Od according to EN//20 42400 4			
renormance level B10	0d according to EN/ISO 13489-1	ا د الدخوم	- ا احد	F00000
		rated load	cycles	500000
Minnen accident		mechanical load	cycles	20000000
	ng to IEC/EN 609474-4-1			YES
EMC compatibility				YES
AC coil operating	011		. ,	100
Rated AC voltage at 6	UMZ		V	460



				-
of 60Hz cail now	warad at 60Uz			
or gold con box				
	ριοκ-αρ	min	%l le	75
				115
	drop-out	max	7000	110
	arop cut	min	%Us	20
				55
sumption at 20°C				
	powered at 50Hz			
		in-rush	VA	30
				4
of 50/60Hz coil	powered at 60Hz			
	,	in-rush	VA	25
				3
of 60Hz coil pov	vered at 60Hz			
2 2 2 2 2 3 2 M		in-rush	VA	30
				4
ı ≤20°C 50Hz				0.9
			cycles/h	3600
			, , , , , ,	
control				
-	Closing NO			
	3	min	ms	12
		max	ms	21
	Opening NO			
	1 3	min	ms	9
		max	ms	18
	Closing NC			
	· ·	min	ms	17
		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
		max	ms	3
	Closing NC			
		min	ms	3
		max	ms	5
	Opening NC			
		min	ms	11
		max	ms	17
	AC motor			
A) for three-phase A	to motor			
A) for three-phase <i>F</i>	to motor	at 480V	Α	11
	of 50/60Hz coil portion of 50/60Hz coil portion of 60Hz coil portion of	of 50/60Hz coil powered at 50Hz of 50/60Hz coil powered at 60Hz of 60Hz coil powered at 60Hz g ≤20°C 50Hz control in AC Closing NO Opening NO Closing NC Opening NC in DC Closing NO Opening NO Closing NO	pick-up min max max min max max min max max min max max min max Closing NC min max min max	Dick-up Min Mus Max Mus Max Mus Mus Max Mus Mus Max Mus Mus

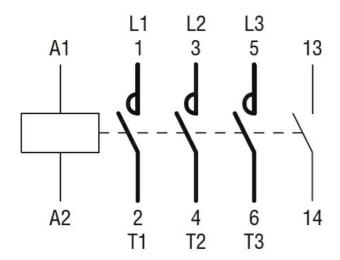




	for single-phase AC motor				
	3 1	110/120V	HP	0.5	
		230V	HP	1.5	
	for three-phase AC motor				
	·	200/208V	HP	3	
		220/230V	HP	3	
		460/480V	HP	7.5	
		575/600V	HP	10	
General USE					
	Contactor				
		AC current	Α	20	
Short-circuit protection	n fuse, 600V				
·	High fault				
	3	Short circuit current	kA	100	
		Fuse rating	Α	30	
		Fuse class		J	
	Standard fault				
		Short circuit current	kA	5	
		Fuse rating	Α	30	
		Fuse class		RK5	
Contact rating of auxili	ary 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	on				
Pollution degree				3	
Dimensions					
4.4 (0.17")					
(0.33')		(1.73")		(3.51")	

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 60HZ, 460VAC, 1NO AUXILIARY CONTACT



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