



Product designation			Auxiliary
•			contactor
Product type designation Contact characteristics			BG12
		Nr.	3
Number of poles Rated insulation voltage Ui IEC/EN		V	690
Rated insulation voltage of IEC/EN Rated impulse withstand voltage Uimp		kV	6
Operational frequency		KV	0
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	Παλ	A	20
Operational current le			20
Operational current le	AC-1 (≤40°C)	Α	20
	AC-1 (≤55°C)	A	18
	AC-1 (≤33°C) AC-1 (≤70°C)	A	15
	AC-1 (≤70 C) AC-3 (≤440V ≤55°C)	A	12
	AC-3 (3440V 333 C) AC-4 (400V)	A	4.8
Rated operational power AC-3 (T≤55°C)	AO-4 (400V)		4.0
Nated operational power AO-3 (1=35 O)	230V	kW	3.2
	400V	kW	5.7
	415V	kW	6.2
	440V	kW	5.5
	500V	kW	5.5
	690V	kW	5
Rated operational power AC-1 (T≤40°C)	030 V	IXVV	
Nated operational power AO-1 (1240 O)	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			
120 max carrent to in 201 mar 27x = time mar 1 polec in conce	≤24V	Α	12
	48V	Α	10
	75V	Α	4
	110V	A	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	A	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			
·	≤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 carrone to in 200 200 mar 2/10 = 10 mo mar 1 poloco 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-DC5 with L/R \(\) 15ms with 2 poles in series	<04)/	۸	0
	≤24V	A	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	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	A	72
Pasiatanas par pala (avaraga valua)	090 V	mΩ	10
Resistance per pole (average value)		11177	10
Power dissipation per pole (average value)	141	147	4
	Ith	W	4
	AC-3	W	1.4
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	Ibin	9
Max number of wires	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
	ction 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			4.0
A 10		max		12
Auxiliary contact chara	acteristics		^	4.0
Thermal current Ith	oi que etie u		A	10
IEC/EN 60947-5-1 de	~			A600
Operating current AC	15	0001/	۸	2
		230V 400V	A	3
			A	1.9
Operating ourrent DC	10	500V	Α	1.4
Operating current DC	12	440\/	٨	2.0
O	40	110V	A	2.9
Operating current DC	13	241/	٨	2.0
		24V	A	2.9
		48V	A	1.4
		60V 110V	A	1.2 0.6
		110V 125V	A A	0.6 0.55
		220V	A	0.3
		600V	A	0.3
Operations		000 V		V. I
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data			Oyolea	
•	0d according to EN/ISO 13489-1			
TOTOTHIANCE IEVELDI	od dooording to Environ 19409-1	rated load	cycles	500000
		mechanical load	cycles	2000000
Mirror contate accordi	ng to IEC/EN 609474-4-1	medianidal idad	cycles	YES
	119 to 1EG/EN 0034/4-4-1			YES
EMC compatibility AC coil operating				IEO
Rated AC voltage at 6	:0Hz		V	24
Nateu AC Vullage at 0	DUI IZ		V	4 4



				-
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				
-	Closina 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 Opening NC min max min max min max min max Opening NC min max min max	Dick-up Min Mus Max Mus Max Mus Mus Max Mus Mus Max Mus Mus

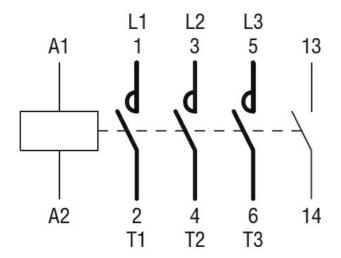




for	r single-phase AC motor				
	•	110/120V	HP	0.5	
		230V	HP	1.5	
for	r three-phase AC motor				
	·	200/208V	HP	3	
		220/230V	HP	3	
		460/480V	HP	7.5	
		575/600V	HP	10	
General USE					
Co	ontactor				
		AC current	Α	20	
Short-circuit protection fus	se, 600V				
· · · · · · · · · · · · · · · · · · ·	gh fault				
	3	Short circuit current	kA	100	
		Fuse rating	A	30	
		Fuse class	-	J	
St	andard fault	. 333 3.400			
		Short circuit current	kA	5	
		Fuse rating	Α	30	
		Fuse class		RK5	
Contact rating of auxiliary of	contacts according to UI	. 400 0.400		A600 - Q600	
Ambient conditions	oomaaa aaaa aa			71000 000	
Temperature					
-	perating temperature				
9,	poraumy temperature	min	°C	-50	
		max	°C	+70	
St	orage temperature	max			
3.	iorago tomporataro	min	°C	-60	
		max	°C	+80	
Max altitude		max	m	3000	
Resistance & Protection				0000	
Pollution degree				3	
Dimensions				3	
4.4 (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.18") (
Wiring diagrams					



ENERGY AND AUTOMATION



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