





			•
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			
operational moduler by	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	max	A	20
Operational current le			
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)		12
	,	A	
Dated an austional neuron AC 2 (TZEE°C)	AC-4 (400V)	Α	4.8
Rated operational power AC-3 (T≤55°C)	0001	1-147	0.0
	230V	kW	3.2
	400V	kW	5.7
	415V	kW	6.2
	440V	kW	5.5
	500V	kW	5
D. I. J.	690V	kW	5
Rated operational power AC-1 (T≤40°C)	0001/		
	230V	kW	8
	400V	kW	14
	500V	kW	16
150 H 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	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
9	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			
·	≤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 carrett to in 200 200 man 2/10 = 10 ma man 1 police in conce	≤24V	Α	7
	48V	A	6
	75V	A	2
	110V	A	1
	220V	A	
IEC may current to in DC2 DC5 with L/D < 15mg with 2 polos in series	220 V	^	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	~24) /	۸	0
	≤24V	A	8
	48V	A	8
	75V	A	5
	110V	A	4
150 (1) B00 B05 (11) (5) (5)	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			
G	440V	Α	96
	500V	A	72
	690V	A	72
Resistance per pole (average value)	300 v	mΩ	10
Power dissipation per pole (average value)		11122	10
i ower dissipation per pole (average value)	Ith	W	4
Tightoning targue for terminals	AC3	W	1.44
Tightening torque for terminals		N.I.:	0.0
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	Ibin	9
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9





		max	Ibin	9
	simultaneously connectable		Nr.	2
Conductor section	ANA/O/I/C-m-!!			
	AWG/Kcmil	may		12
	Flexible w/o lug conductor section	max		12
	Flexible w/o lug coriductor section	min	mm²	0.75
		max	mm²	2.5
	Flexible c/w lug conductor section	IIIdx	111111	2.5
	Tiexible of Wing 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
Davier terminal musta	etion according to IEC/EN COECO			IP20 when
Power terminal prote	ction according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	180
Conductor section				
	AWG/kcmil conductor section			
A 10		max		12
Auxiliary contact chai	acteristics		^	4.0
Thermal current Ith			Α	10
リロヘノロい じりしょう ヒューム	noignation			1600 O600
				A600 - Q600
		2201/	Δ	
		230V	A	3
		400V	Α	3 1.9
Operating current AC	15			3
Operating current AC	15	400V 500V	A A	3 1.9 1.4
Operating current AC	212	400V	Α	3 1.9
Operating current AC	212	400V 500V 110V	A A	3 1.9 1.4 2.9
Operating current AC	212	400V 500V 110V 24V	A A A	3 1.9 1.4 2.9
Operating current AC	212	400V 500V 110V 24V 48V	A A A	3 1.9 1.4 2.9 2.9 1.4
Operating current AC	212	400V 500V 110V 24V 48V 60V	A A A	3 1.9 1.4 2.9 2.9 1.4 1.2
Operating current AC	212	400V 500V 110V 24V 48V	A A A A	3 1.9 1.4 2.9 2.9 1.4
Operating current AC	212	400V 500V 110V 24V 48V 60V 110V	A A A A A	3 1.9 1.4 2.9 2.9 1.4 1.2 0.6
Operating current AC	212	400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A	3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55
Operating current AC Operating current DC Operating current DC	212	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3
Operating current AC Operating current DC Operating current DC	212	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3
Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life	212	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life	212	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A Cycles	3 1.9 1.4 2.9 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	212	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A Cycles	3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	212	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A Cycles	3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current AC Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B	212 213 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles cycles	3 1.9 1.4 2.9 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B	212 213 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles cycles	3 1.9 1.4 2.9 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B	212 213 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles cycles	3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000





Rated AC voltage at				V	24
C operating voltage					
	of 50/60Hz coil po				
		pick-up	min	%Us	75
			max	%Us	75 115
		drop-out	max	7003	110
		а. ор оа.	min	%Us	20
			max	%Us	55
	of 50/60Hz coil po	owered at 60Hz			
		pick-up			
			min	%Us	80
			max	%Us	115
		drop-out			
			min	%Us	20
	aumention at 20°C		max	%Us	55
.C average coil con		owared at 50Hz			
	of 50/60Hz coil po	JWEIEU AL JUNZ	in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil po	owered at 60Hz	Holding	• • • • • • • • • • • • • • • • • • • •	'
	0. 00,00. <u>1</u> 00 p 0		in-rush	VA	25
			holding	VA	3
	of 60Hz coil powe	ered at 60Hz			
			in-rush	VA	30
			holding	VA	4
Dissipation at holdin				W	0.95
Max cycles frequenc					
Mechanical operation	n			cycles/h	3600
Operating times					
	control				
	control in AC	Closing NO			
		Closing NO	min	ms	12
		Closing NO	min max	ms ms	12 21
			min max	ms ms	12 21
		Closing NO Opening NO			
			max	ms	21
			max min	ms ms	9
		Opening NO	max min	ms ms	2191817
		Opening NO Closing NC	max min max	ms ms ms	21918
		Opening NO	max min max min max	ms ms ms ms	219181726
		Opening NO Closing NC	max min max min max min	ms ms ms ms ms	2191817267
	in AC	Opening NO Closing NC	max min max min max	ms ms ms ms	219181726
		Opening NO Closing NC Opening NC	max min max min max min	ms ms ms ms ms	2191817267
	in AC	Opening NO Closing NC	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	max min max min max min max min min	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 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 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	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
Average time for Us	in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	max min max min max min max min max min max	ms	21 9 18 17 26 7 17 18 25 2

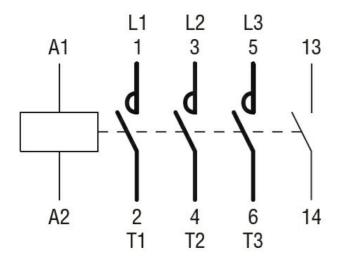


Opening NC

Opening	110		
	min	ms	11
	max	ms	17
UL technical data	a.r		
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			
Tor single prides ris 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	010,0001	- ' ''	10
Contactor			
	AC current	Α	20
Short-circuit protection fuse, 600V			
High fault			
	Short circuit current	kA	100
		A	30
	Fuse rating	A	
	Fuse class		J
Standard fault			
	Short circuit current	kA	5
	Fuse rating	Α	30
Contact rating of auxiliary contacts according to UL	3		A600 - Q600
Ambient conditions			71000 0000
Temperature			
Operating temperature			
	min	°C	-50
	max	°C	+70
Storage temperature			
Clorago tomporataro	min	°C	-60
		°C	
	max		+80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3
Dimensions			
4.4 (0.17") (2.24") (0.17") (2.24") (0.17") (3.49)	34.9 34.9 34.9 32.0 34.9 32.0 32.0 33.0 32.0 32.0 32.0 32.0 32.0	(2.28") 5	57,24")
(0.33") (0.33") (0.33") (0.33") (0.33") (0.33")	(1.37") (0.12 (1.73") (1.37")	")	89.2 (3.51") 7.6 (0.30")
Wiring diagrams			

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 50/60HZ, 24VAC, 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







Product designation Product type designation	Power contactor 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 A	20
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	5.7
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 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	40
≤24V A	16
10\/ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	16
48V A	4.0
75V A 110V A	10 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 carrett to in 200 200 man 2/10 = 10 ma man 1 police in conce	≤24V	Α	7
	48V	A	6
	75V	A	2
	110V	A	1
	220V	A	
IEC may current to in DC2 DC5 with L/D < 15mg with 2 polos in series	220 V	^	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	~24) /	۸	0
	≤24V	A	8
	48V	A	8
	75V	A	5
	110V	A	4
150 (1) B00 B05 (11) (5) (5)	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			
G	440V	Α	96
	500V	A	72
	690V	A	72
Resistance per pole (average value)	300 v	mΩ	10
Power dissipation per pole (average value)		11122	10
i ower dissipation per pole (average value)	Ith	W	4
Tightoning targue for terminals	AC3	W	1.44
Tightening torque for terminals		N.1.	0.0
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	Ibin	9
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9





		max	lbin	9
	simultaneously connectable		Nr.	2
Conductor section	A1440 #4			
	AWG/Kcmil			40
	Florible w/o live conductor coefficia	max		12
	Flexible w/o lug conductor section	min	mm²	0.75
		min	mm² mm²	0.75 2.5
	Flexible c/w lug conductor section	max	111111	2.0
	r lexible c/w lug conductor section	min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section		111111	2.0
	Tiexible with insulated space lag conductor section	min	mm²	1.5
		max	mm²	2.5
		THOX:		IP20 when
Power terminal prote	ction according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Eiving				Screw / DIN rail
Fixing				35mm
Weight			g	175
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact char	acteristics			
Thermal current Ith			A	10
IEC/EN 60947-5-1 de	•			A600 - Q600
Operating current AC	;15			
				_
		230V	Α	3
		400V	Α	1.9
0	40			
Operating current DC	:12	400V 500V	A A	1.9 1.4
		400V	Α	1.9
Operating current DC		400V 500V 110V	A A	1.9 1.4 2.9
		400V 500V 110V 24V	A A A	1.9 1.4 2.9 2.9
		400V 500V 110V 24V 48V	A A A A	1.9 1.4 2.9 2.9 1.4
		400V 500V 110V 24V 48V 60V	A A A A A	1.9 1.4 2.9 2.9 1.4 1.2
		400V 500V 110V 24V 48V 60V 110V	A A A A A	1.9 1.4 2.9 2.9 1.4 1.2 0.6
		400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A	1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55
		400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3
Operating current DC		400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A	1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55
		400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current DC Operations Mechanical life		400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A Cycles	1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operations Mechanical life Electrical life		400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	1.9 1.4 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	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A Cycles	1.9 1.4 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		400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles cycles	1.9 1.4 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	10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles cycles	1.9 1.4 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	10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles cycles	1.9 1.4 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	10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles cycles	1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000





Rated AC voltage at				V	48
AC operating voltage		= 0.1			
	of 50/60Hz coil po				
		pick-up	min	%Us	75
			max	%Us	75 115
		drop-out	max	7003	110
		arop cut	min	%Us	20
			max	%Us	55
	of 50/60Hz coil po	owered at 60Hz			
	·	pick-up			
			min	%Us	80
			max	%Us	115
		drop-out			
			min	%Us	20
			max	%Us	55
C average coil con					
	of 50/60Hz coil po	owered at 50Hz		,	
			in-rush	VA	30
	. (50/001 !		holding	VA	4
	of 50/60Hz coil po	owered at 60Hz	:	1//	25
			in-rush	VA VA	25 3
	of 60Hz coil power	arad at 60Uz	holding	VA	ა
	oi bonz coii powe	ered at 60HZ	in-rush	VA	30
			holding	VA	4
Dissipation at holdin	a <20°C 50Hz		Holding	W	0.95
Max cycles frequenc					0.00
Mechanical operation				cycles/h	3600
Operating times					
verage time for Us	control				
	in AC				
	in AC	Closing NO			
	in AC	Closing NO	min	ms	12
	in AC	-	min max	ms ms	12 21
	in AC	Closing NO Opening NO	max	ms	21
	in AC	-	max min	ms ms	9
	in AC	Opening NO	max	ms	21
	in AC	-	max min max	ms ms ms	21918
	in AC	Opening NO	max min max min	ms ms ms	2191817
	in AC	Opening NO Closing NC	max min max	ms ms ms	21918
	in AC	Opening NO	max min max min max	ms ms ms ms	219181726
	in AC	Opening NO Closing NC	max min max min max min	ms ms ms ms	21 9 18 17 26
		Opening NO Closing NC	max min max min max	ms ms ms ms	219181726
	in AC	Opening NO Closing NC Opening NC	max min max min max min	ms ms ms ms	21 9 18 17 26
		Opening NO Closing NC	max min max min max min max	ms ms ms ms ms	21 9 18 17 26 7 17
		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
		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
		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
		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
		Opening NO Closing NC Opening NC Closing NO	max min max min max min max min max min max	ms	21 9 18 17 26 7 17
		Opening NO Closing NC Opening NC Closing NO Opening NO	max min max min max min max min max min max	ms	21 9 18 17 26 7 17

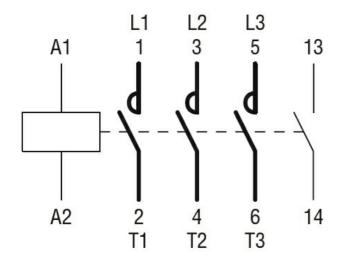


Opening NC

Opening	110		
	min	ms	11
	max	ms	17
UL technical data	a.r		
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			
Tor single prides ris 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	010,0001	- ' ''	10
Contactor			
	AC current	Α	20
Short-circuit protection fuse, 600V			
High fault			
	Short circuit current	kA	100
		A	30
	Fuse rating	A	
	Fuse class		J
Standard fault			
	Short circuit current	kA	5
	Fuse rating	Α	30
Contact rating of auxiliary contacts according to UL	3		A600 - Q600
Ambient conditions			71000 0000
Temperature			
Operating temperature			
	min	°C	-50
	max	°C	+70
Storage temperature			
Clorago tomporataro	min	°C	-60
		°C	
	max		+80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3
Dimensions			
4.4 (0.17") (2.24") (0.17") (2.24") (0.17") (3.49)	34.9 34.9 34.9 32.0 34.9 32.0 32.0 33.0 32.0 32.0 32.0 32.0 32.0	(2.28") 5	57,24")
(0.33") (0.33") (0.33") (0.33") (0.33") (0.33")	(1.37") (0.12 (1.73") (1.37")	")	89.2 (3.51") 7.6 (0.30")
Wiring diagrams			

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 50/60HZ, 48VAC, 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







			•
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-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 110V	A A	10 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 carrett to in 200 200 man 2/10 = 10 ma man 1 police in conce	≤24V	Α	7
	48V	A	6
	75V	A	2
	110V	A	1
	220V	A	
IEC may current to in DC2 DC5 with L/D < 15mg with 2 polos in series	220 V	^	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	~24) /	۸	0
	≤24V	A	8
	48V	A	8
	75V	A	5
	110V	A	4
150 (1) B00 B05 (11) (5) (5)	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			
G	440V	Α	96
	500V	A	72
	690V	A	72
Resistance per pole (average value)	300 v	mΩ	10
Power dissipation per pole (average value)		11122	10
i ower dissipation per pole (average value)	Ith	W	4
Tightoning targue for terminals	AC3	W	1.44
Tightening torque for terminals		N.1.	0.0
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	Ibin	9
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9





		max	Ibin	9
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			4.0
	FI. 21. 7.1. 2.2.	max		12
	Flexible w/o lug conductor section			0.75
		min	mm²	0.75
	Flexible c/w lug conductor section	max	mm²	2.5
	Flexible C/W lug colludctor section	min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section	max		2.0
	Tionible with inculated opade lag conductor occiton	min	mm²	1.5
		max	mm²	2.5
				IP20 when
Power terminal protect	tion according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	179
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact chara		max		
Thermal current Ith	acteristics	max	A	10
Thermal current Ith IEC/EN 60947-5-1 de	acteristics	max	A	
•	acteristics			10 A600 - Q600
Thermal current Ith IEC/EN 60947-5-1 de	acteristics	230V	A	10 A600 - Q600
Thermal current Ith IEC/EN 60947-5-1 de	acteristics	230V 400V	A A	10 A600 - Q600 3 1.9
Thermal current lth IEC/EN 60947-5-1 de Operating current AC	signation 15	230V	A	10 A600 - Q600
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC	signation 15	230V 400V 500V	A A A	10 A600 - Q600 3 1.9 1.4
Thermal current lth IEC/EN 60947-5-1 de Operating current AC	signation 15	230V 400V	A A	10 A600 - Q600 3 1.9
Thermal current lth IEC/EN 60947-5-1 de Operating current AC	signation 15	230V 400V 500V	A A A	10 A600 - Q600 3 1.9 1.4
Thermal current lth IEC/EN 60947-5-1 de Operating current AC	signation 15	230V 400V 500V 110V	A A A	10 A600 - Q600 3 1.9 1.4 2.9
Thermal current lth IEC/EN 60947-5-1 de Operating current AC	signation 15	230V 400V 500V 110V 24V 48V	A A A A	10 A600 - Q600 3 1.9 1.4 2.9
Thermal current lth IEC/EN 60947-5-1 de Operating current AC	signation 15	230V 400V 500V 110V 24V 48V 60V	A A A A A	10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2
Thermal current lth IEC/EN 60947-5-1 de Operating current AC	signation 15	230V 400V 500V 110V 24V 48V 60V 110V	A A A A A	10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6
Thermal current lth IEC/EN 60947-5-1 de Operating current AC	signation 15	230V 400V 500V 110V 24V 48V 60V	A A A A A	10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2
Thermal current lth IEC/EN 60947-5-1 de Operating current AC	signation 15	230V 400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A	10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55
Thermal current lth IEC/EN 60947-5-1 de Operating current AC	signation 15	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A	10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3
Thermal current lth IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC	signation 15	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A	10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	signation 15	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Thermal current lth IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC	signation 15	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A Cycles	10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	signation 15	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A Cycles	10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	signation 15 12	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A Cycles	10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	signation 15 12 13 Od according to EN/ISO 13489-1	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A Cycles cycles	10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operating current DC Electrical life Safety related data Performance level B1	signation 15 12 13 Od according to EN/ISO 13489-1	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A Cycles cycles	10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC	signation 15 12 13 Od according to EN/ISO 13489-1	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A Cycles cycles	10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 500000





Rated AC voltage at 5	50/60Hz			V	110
AC operating voltage					
	of 50/60Hz coil p				
		pick-up		0/116	75
			min	%Us %Us	75 115
		drop-out	max	/0US	113
		drop out	min	%Us	20
			max	%Us	55
	of 50/60Hz coil p	owered at 60Hz			
	·	pick-up			
			min	%Us	80
			max	%Us	115
		drop-out			
			min	%Us	20
			max	%Us	55
AC average coil cons	•				
	of 50/60Hz coil p	owered at 50Hz	_		
			in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil p	oowered at 60Hz			0.5
			in-rush	VA	25
	of 60Hz coil pow	2 2 4 COLL	holding	VA	3
	OI OUTZ COII DOW	ered at 60HZ			
	•		in ruch	١/٨	20
	•		in-rush holding	VA VA	30 4
Dissination at holding			in-rush holding	VA	4
	≤20°C 50Hz				
Max cycles frequency	≤20°C 50Hz		holding	VA W	0.95
Max cycles frequency Mechanical operation	≤20°C 50Hz		holding	VA	0.95
Max cycles frequency Mechanical operation Operating times	≤20°C 50Hz		holding	VA W	0.95
Max cycles frequency Mechanical operation Operating times	≤20°C 50Hz		holding	VA W	0.95
Max cycles frequency Mechanical operation Operating times	≤20°C 50Hz	Closing NO	holding	VA W	0.95
Max cycles frequency Mechanical operation Operating times	≤20°C 50Hz		holding	VA W	4 0.95 3600
Max cycles frequency Mechanical operation Operating times	≤20°C 50Hz	Closing NO	holding	VA W cycles/h	4 0.95 3600
Max cycles frequency Mechanical operation Operating times	≤20°C 50Hz		holding min max	VA W cycles/h ms ms	4 0.95 3600 12 21
Max cycles frequency Mechanical operation Operating times	≤20°C 50Hz	Closing NO	holding min max min	VA W cycles/h ms ms	12 21 9
Max cycles frequency Mechanical operation Operating times	≤20°C 50Hz	Closing NO Opening NO	holding min max	VA W cycles/h ms ms	4 0.95 3600 12 21
Max cycles frequency Mechanical operation Operating times	≤20°C 50Hz	Closing NO	min max min max	VA W cycles/h ms ms	4 0.95 3600 12 21 9 18
Max cycles frequency Mechanical operation Operating times	≤20°C 50Hz	Closing NO Opening NO	min max min max	VA W cycles/h ms ms ms ms	4 0.95 3600 12 21 9 18
Max cycles frequency Mechanical operation Operating times	≤20°C 50Hz	Closing NO Opening NO Closing NC	min max min max	VA W cycles/h ms ms	4 0.95 3600 12 21 9 18
Max cycles frequency Mechanical operation Operating times	≤20°C 50Hz	Closing NO Opening NO	min max min max min max	VA W cycles/h ms ms ms ms ms	4 0.95 3600 12 21 9 18 17 26
Max cycles frequency Mechanical operation Operating times	≤20°C 50Hz	Closing NO Opening NO Closing NC	min max min max min max min max	VA W cycles/h ms ms ms ms ms ms	4 0.95 3600 12 21 9 18 17 26
Max cycles frequency Mechanical operation Operating times	≤20°C 50Hz control in AC	Closing NO Opening NO Closing NC	min max min max min max	VA W cycles/h ms ms ms ms ms	4 0.95 3600 12 21 9 18 17 26
Max cycles frequency Mechanical operation Operating times	≤20°C 50Hz	Closing NO Opening NO Closing NC Opening NC	min max min max min max min max	VA W cycles/h ms ms ms ms ms ms	4 0.95 3600 12 21 9 18 17 26
Max cycles frequency Mechanical operation Operating times	≤20°C 50Hz control in AC	Closing NO Opening NO Closing NC	min max min max min max min max	VA W cycles/h ms ms ms ms ms ms	4 0.95 3600 12 21 9 18 17 26
Max cycles frequency Mechanical operation Operating times	≤20°C 50Hz control in AC	Closing NO Opening NO Closing NC Opening NC	min max min max min max	VA W cycles/h ms ms ms ms ms ms	4 0.95 3600 12 21 9 18 17 26 7
Max cycles frequency Mechanical operation Operating times	≤20°C 50Hz control in AC	Closing NO Opening NO Closing NC Opening NC	min max min max min max min max	VA W cycles/h ms ms ms ms ms ms ms ms ms	4 0.95 3600 12 21 9 18 17 26 7 17
Max cycles frequency Mechanical operation Operating times	≤20°C 50Hz control in AC	Closing NO Opening NO Closing NC Opening NC Closing NC	min max min max min max min max	VA W cycles/h ms ms ms ms ms ms ms ms ms	4 0.95 3600 12 21 9 18 17 26 7 17
Max cycles frequency Mechanical operation Operating times	≤20°C 50Hz control in AC	Closing NO Opening NO Closing NC Opening NC Closing NO Opening NO	min max min max min max min max	VA W cycles/h ms ms ms ms ms ms ms ms ms	4 0.95 3600 12 21 9 18 17 26 7 17
Max cycles frequency Mechanical operation Operating times	≤20°C 50Hz control in AC	Closing NO Opening NO Closing NC Opening NC Closing NC	min max	VA W cycles/h ms	4 0.95 3600 12 21 9 18 17 26 7 17
Dissipation at holding Max cycles frequency Mechanical operation Operating times Average time for Us of the control of the cycles of the cycle	≤20°C 50Hz control in AC	Closing NO Opening NO Closing NC Opening NC Closing NO Opening NO	min max	VA W cycles/h ms	4 0.95 3600 12 21 9 18 17 26 7 17

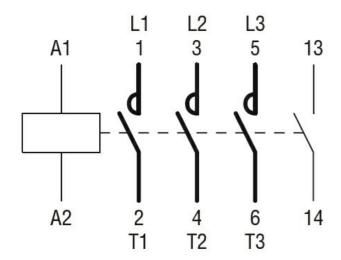


Opening NC

Opening	110		
	min	ms	11
	max	ms	17
UL technical data	a.r		
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			
Tor single prides ris 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	010,0001	- ' ''	10
Contactor			
	AC current	Α	20
Short-circuit protection fuse, 600V			
High fault			
	Short circuit current	kA	100
		A	30
	Fuse rating	A	
	Fuse class		J
Standard fault			
	Short circuit current	kA	5
	Fuse rating	Α	30
Contact rating of auxiliary contacts according to UL	3		A600 - Q600
Ambient conditions			71000 0000
Temperature			
Operating temperature			
	min	°C	-50
	max	°C	+70
Storage temperature			
Clorago tomporataro	min	°C	-60
		°C	
	max		+80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3
Dimensions			
4.4 (0.17") (2.24") (0.17") (2.24") (0.17") (3.49)	34.9 34.9 34.9 32.0 34.9 32.0 32.0 33.0 32.0 32.0 32.0 32.0 32.0	(2.28") 5	57,24")
(0.33") (0.33") (0.33") (0.33") (0.33") (0.33")	(1.37") (0.12 (1.73") (1.37")	")	89.2 (3.51") 7.6 (0.30")
Wiring diagrams			

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 50/60HZ, 110VAC, 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







			,
Product designation			Auxiliary
			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			0.5
	min	Hz	25
IFO Comment is a self-through the second transport life.	max	Hz	400
IEC Conventional free air thermal current Ith		Α	20
Operational current le	AO 4 (440°O)		00
	AC-1 (≤40°C)	A	20
	AC-1 (≤55°C)	A	18
	AC-1 (≤70°C)	Α	15
	AC-3 (≤440V ≤55°C)	A	12
D. I. I	AC-4 (400V)	Α	4.8
Rated operational power AC-3 (T≤55°C)	0001/	1.147	0.0
	230V	kW	3.2
	400V	kW	5.7
	415V	kW	6.2
	440V	kW	5.5
	500V	kW	5
D 4 1 4 4000	690V	kW	5
Rated operational power AC-1 (T≤40°C)	2001/		•
	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	40 AV /		4.0
	≤24V	A	12
	48V	Α	10
	75V	A	4
	110V	A	3
150	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	.0.43.4		
	≤24V	Α	15
	48V	A	14
	75V	Α	9
	110V	A	8
IEO	220V	Α	-
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series		_	4.0
	≤24V	A	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			
·	≤24V	Α	_
	48V	Α	_
	75V	A	_
	110V	Α	_
	220V	A	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	2201		
TEO THAX OUT ON TO BOO DOO WILL ETT = TOTAL WILL IT POICE IN SCHOOL	≤24V	Α	7
	48V	A	6
	75V	A	2
	110V	A	1
150	220V	A	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	-0.01		
	≤24V	Α	8
	48V	Α	8
	75V	Α	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	A	_
Short-time allowable current for 10s (IEC/EN60947-1)		Α	96
Protection fuse			
1 100000011 1000	gG (IEC)	Α	20
	aM (IEC)	A	16
Making capacity (RMS value)	aw (ILO)	A	120
Breaking capacity (Kivis value)			120
breaking capacity at voltage	440\/	۸	06
	440V	A	96 72
	500V	A	72 72
Desistance way pale (avenue - value)	690V	A	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	Ith	W	4
	AC3	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			
		max		12
Auxiliary contact chara	acteristics			
Thermal current Ith			А	10
IEC/EN 60947-5-1 de	-			A600
Operating current AC	15			
		230V	Α	3
		400V	Α	1.9
		500V	A	1.4
Operating current DC	12			
		110V	Α	2.9
Operating current DC	13			
		24V	Α	2.9
		48V	Α	1.4
		60V	Α	1.2
		110V	Α	0.6
		125V	Α	0.55
		220V	Α	0.3
		600V	Α	0.1
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data	0.1			
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	cycles	500000
		mechanical load	cycles	20000000
	ng to IEC/EN 609474-4-1			YES
EMC compatibility				YES
AC coil operating				
Rated AC voltage at 5	50/60Hz		V	230





AC operating voltage	/				
	of 50/60Hz coil	powered at 50Hz			
		pick-up		0/116	75
			min max	%Us %Us	75 115
		drop-out	IIIax	/005	115
		drop-out	min	%Us	20
			max	%Us	55
	of 50/60Hz coil i	powered at 60Hz	max	7003	
	01 00/00112 0011	pick-up			
		pion ap	min	%Us	80
			max	%Us	115
		drop-out		,,,,,	
		P	min	%Us	20
			max	%Us	55
AC average coil cons	umption at 20°C				
-		powered at 50Hz			
			in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil	powered at 60Hz			
			in-rush	VA	25
			holding	VA	3
	of 60Hz coil pov	vered at 60Hz			
			in-rush	VA	30
			holding	VA	4
Dissipation at holding				W	0.9
Max cycles frequency	•				
Machanical aparation					
Mechanical operation				cycles/h	3600
Operating times				cycles/h	3600
Operating times				cycles/h	3600
Operating times	control in AC			cycles/h	3600
Operating times		Closing NO			
Operating times		Closing NO	min	ms	12
Operating times					
Operating times		Closing NO Opening NO	min max	ms ms	12 21
Operating times			min max min	ms ms	12 21 9
Operating times		Opening NO	min max	ms ms	12 21
Operating times			min max min max	ms ms ms	12 21 9 18
Operating times		Opening NO	min max min max min	ms ms ms ms	12 21 9 18
Operating times		Opening NO Closing NC	min max min max	ms ms ms	12 21 9 18
Operating times		Opening NO	min max min max min max	ms ms ms ms	12 21 9 18 17 26
Operating times		Opening NO Closing NC	min max min max min max min	ms ms ms ms ms	12 21 9 18 17 26
Operating times	in AC	Opening NO Closing NC	min max min max min max	ms ms ms ms	12 21 9 18 17 26
Operating times		Opening NO Closing NC Opening NC	min max min max min max min	ms ms ms ms ms	12 21 9 18 17 26
Operating times	in AC	Opening NO Closing NC	min max min max min max min max	ms ms ms ms ms	12 21 9 18 17 26 7
Operating times	in AC	Opening NO Closing NC Opening NC	min max min max min max min max	ms ms ms ms ms ms	12 21 9 18 17 26 7 17
Operating times	in AC	Opening NO Closing NC Opening NC Closing NO	min max min max min max min max	ms ms ms ms ms	12 21 9 18 17 26 7
Operating times	in AC	Opening NO Closing NC Opening NC	min max min max min max min max	ms ms ms ms ms ms	12 21 9 18 17 26 7 17
Operating times	in AC	Opening NO Closing NC Opening NC Closing NO	min max min max min max min max min max	ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17
Operating times	in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	min max min max min max min max	ms ms ms ms ms ms	12 21 9 18 17 26 7 17
Operating times	in AC	Opening NO Closing NC Opening NC Closing NO	min max min max min max min max min max min max	ms ms ms ms ms ms	12 21 9 18 17 26 7 17
Operating times	in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	min max	ms	12 21 9 18 17 26 7 17 18 25 2 3
Operating times Average time for Us of	in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	min max min max min max min max min max min max	ms ms ms ms ms ms	12 21 9 18 17 26 7 17



		min	ms	11
		max	ms	17
UL technical data				
Full-load current (FLA	a) for three-phase AC motor			
		at 480V	Α	11
		at 600V	Α	11
Yielded mechanical p	erformance			_
	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 protectio	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
_	iary contacts according to UL	Fuse rating	Α	30 A600 - Q600
Contact rating of auxil Ambient conditions	iary contacts according to UL	Fuse rating	A	
_	iary contacts according to UL	Fuse rating	A	
Ambient conditions	iary contacts according to UL Operating temperature	Fuse rating	A	
Ambient conditions		Fuse rating min	°C	A600 - Q600 -50
Ambient conditions				A600 - Q600
Ambient conditions		min	°C °C	-50 +70
Ambient conditions	Operating temperature	min	°C °C	A600 - Q600 -50
Ambient conditions	Operating temperature	min max	°C °C	-50 +70
Ambient conditions Temperature Max altitude	Operating temperature Storage temperature	min max min	°C °C	-50 +70
Ambient conditions Temperature	Operating temperature Storage temperature	min max min	°C °C °C	-50 +70 -60 +80 3000
Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree	Operating temperature Storage temperature	min max min	°C °C °C	-50 +70 -60 +80
Ambient conditions Temperature Max altitude Resistance & Protecti	Operating temperature Storage temperature	min max min	°C °C °C	-50 +70 -60 +80 3000
Ambient conditions Temperature Max altitude Resistance & Protect Pollution degree Dimensions	Operating temperature Storage temperature	min max min max	°C °C °C m	-50 +70 -60 +80 3000
Ambient conditions Temperature Max altitude Resistance & Protect Pollution degree Dimensions 44 (0.17") 4.4 (0.17")	Operating temperature Storage temperature	min max min max	°C °C °C m	-50 +70 -60 +80 3000
Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree Dimensions	Operating temperature Storage temperature	min max min max	°C °C °C m	-50 +70 -60 +80 3000
Ambient conditions Temperature Max altitude Resistance & Protect Pollution degree Dimensions 44 (0.17") 44 (0.17")	Operating temperature Storage temperature	min max min max	°C °C °C m	-50 +70 -60 +80 3000
Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree Dimensions	Operating temperature Storage temperature	min max min max	°C °C °C m	-50 +70 -60 +80 3000
Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree Dimensions 4.4 (0.17") ***********************************	Operating temperature Storage temperature	min max min max	°C °C °C m	-50 +70 -60 +80 3000
Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree Dimensions 44 (0.17") ***********************************	Operating temperature Storage temperature	min max min max	°C °C °C m	-50 +70 -60 +80 3000 3
Ambient conditions Temperature Max altitude Resistance & Protect Pollution degree Dimensions 44 (0.17") (0.33") (0.38") 8.5 (0.38")	Operating temperature Storage temperature	min max min max	°C °C °C m	-50 +70 -60 +80 3000 3
Ambient conditions Temperature Max altitude Resistance & Protect Pollution degree Dimensions 4.4 (0.17") (0.33") (0.33") (0.38")	Operating temperature Storage temperature	min max min max min max 3.2. (0.12"	°C °C °C m	-50 +70 -60 +80 3000 3
Ambient conditions Temperature Max altitude Resistance & Protect Pollution degree Dimensions 44 (0.17") (0.33") (0.38") 8.5 (0.38")	Operating temperature Storage temperature	min max min max	°C °C °C m	-50 +70 -60 +80 3000 3



ENERGY AND AUTOMATION

Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

T3

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







Product designation			Auxiliary
•			contactor
Product type designation Contact characteristics			BG12
		Nr.	3
Number of poles Rated insulation voltage Ui IEC/EN		V	690
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	IIIax	A	20
Operational current le			
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=00 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	IX V V	
Nated operational power AO-1 (1340 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 carrene in 201 mar 2/112 mile mar i poice in conce	≤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			
	≤24V	Α	_
	48V	Α	_
	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 same in the Boo Boo with Eff = Tome with 2 poles in some	≤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	Α	0,8
IEC may current to in DC2 DC5 with L/B < 15mg with 4 pales in series	220 V		0,0
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	<0.4V/	۸	
	≤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)	aivi (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)			
, , , ,	lth	W	4
	AC3	W	1.4
Tightening torque for terminals	7,00	V V	1.1
rightening torque for terminals		N I.a.	0.0
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
	max	Ibin	9
Tightening torque for coil terminal			
		Nine	0.0
	min	Nm	0.8
	min max		
		Nm Ibin	0.8 1 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			
		max		12
Auxiliary contact chara	acteristics		•	10
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	-			A600
Operating current AC	15	0001/		•
		230V	A	3
		400V	A	1.9
0	40	500V	Α	1.4
Operating current DC	12	4401/	Δ.	0.0
0 " 100	40	110V	Α	2.9
Operating current DC	13	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/ICO 40400 4			
renormance level B1	0d according to EN/ISO 13489-1		- ا احد	F00000
		rated load	cycles	500000
Minnen and Cath		mechanical load	cycles	20000000
	ng to IEC/EN 609474-4-1			YES
EMC compatibility				YES
AC coil operating	70 (001)			100
Rated AC voltage at 5	bU/bUHZ		V	400





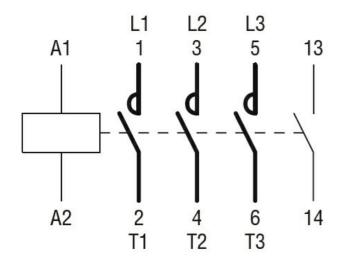
AC operating voltage					
	of 50/60Hz coil po	owered at 50Hz			
		pick-up			
			min	%Us	75
			max	%Us	115
		drop-out			
			min	%Us	20
	. = 2 / 2 2 1 1 1		max	%Us	55
	of 50/60Hz coil po				
		pick-up		0/11-	0.0
			min	%Us	80
		drop out	max	%Us	115
		drop-out	min	%Us	20
			max	%Us	55
AC average coil consu	umption at 20°C		IIIax	/603	
, to average con consu	of 50/60Hz coil po	owered at 50Hz			
	01 30/001 12 0011 pc	JWCIGU AL JUI IZ	in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil po	wered at 60Hz	Holding	v/\	<u>'</u>
	31 30,001 12 0011 pc	7. 100 at 001 12	in-rush	VA	25
			holding	VA	3
	of 60Hz coil powe	ered at 60Hz	110101119	***	
	o. oo oo poo		in-rush	VA	30
			holding	VA	4
Dissipation at holding :	≤20°C 50Hz		<u></u>	W	0.9
Max cycles frequency					
Mechanical operation				cycles/h	3600
				cycles/h	3600
Mechanical operation	ontrol			cycles/h	3600
Mechanical operation Operating times	ontrol in AC			cycles/h	3600
Mechanical operation Operating times		Closing NO		cycles/h	3600
Mechanical operation Operating times		Closing NO	min	cycles/h	12
Mechanical operation Operating times		-	min max		
Mechanical operation Operating times		Closing NO Opening NO	max	ms ms	12 21
Mechanical operation Operating times		-	max min	ms ms	12 21 9
Mechanical operation Operating times		Opening NO	max	ms ms	12 21
Mechanical operation Operating times		-	max min max	ms ms ms	12 21 9 18
Mechanical operation Operating times		Opening NO	max min max min	ms ms ms ms	12 21 9 18
Mechanical operation Operating times		Opening NO Closing NC	max min max	ms ms ms	12 21 9 18
Mechanical operation Operating times		Opening NO	max min max min max	ms ms ms ms	12 21 9 18 17 26
Mechanical operation Operating times		Opening NO Closing NC	max min max min max min	ms ms ms ms	12 21 9 18 17 26
Mechanical operation Operating times	in AC	Opening NO Closing NC	max min max min max	ms ms ms ms	12 21 9 18 17 26
Mechanical operation Operating times		Opening NO Closing NC Opening NC	max min max min max min	ms ms ms ms	12 21 9 18 17 26
Mechanical operation Operating times	in AC	Opening NO Closing NC	max min max min max min max	ms ms ms ms ms	12 21 9 18 17 26 7
Mechanical operation Operating times	in AC	Opening NO Closing NC Opening NC	max min max min max min max min max	ms ms ms ms ms ms	12 21 9 18 17 26 7 17
Mechanical operation Operating times	in AC	Opening NO Closing NC Opening NC Closing NO	max min max min max min max	ms ms ms ms ms	12 21 9 18 17 26 7
Mechanical operation Operating times	in AC	Opening NO Closing NC Opening NC	max min max min max min max min max	ms ms ms ms ms ms	12 21 9 18 17 26 7 17
Mechanical operation Operating times	in AC	Opening NO Closing NC Opening NC Closing NO	max min max min max min max min max min max min	ms ms ms ms ms ms	12 21 9 18 17 26 7 17
Mechanical operation Operating times	in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	max min max min max min max min max	ms ms ms ms ms ms	12 21 9 18 17 26 7 17
Mechanical operation Operating times	in AC	Opening NO Closing NC Opening NC Closing NO	max min max min max min max min max min max min max	ms ms ms ms ms ms	12 21 9 18 17 26 7 17
Mechanical operation Operating times	in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	max min	ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17
Mechanical operation Operating times	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	ms ms ms ms ms ms	12 21 9 18 17 26 7 17



		min	ms	11
III. to obside I date		max	ms	17
UL technical data	for three-phase AC motor			
i dii-load cuitetii (i LA	y for three-phase Ac motor	at 480V	Α	11
		at 600V	A	11
Yielded mechanical po	erformance	4,000		
	for single-phase AC motor			
	3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 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				
	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
	iary contacts according to UL			A600 - Q600
Ambient conditions				
Temperature				
	Operating temperature		0.0	
		min	°C	-50 - 70
	<u> </u>	max	°C	+70
	Storage temperature	مناجع	°C	60
		min	°C	-60 +80
Max altitude		max		
Resistance & Protecti	ion		m	3000
Pollution degree				3
Dimensions				3
4.4 (1.73") (0.17") (0.17") (0.17") (0.38") (0.38")	05 (2.24") 06 (1.37")	44 (1.73") (1.73") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37")	(2.28") 5	RF9
8.5 (0.33")		(1.73")	_	89.2 (3.51") -7.6 (0.30")
Wiring diagrams		(1.73)		(0.01)
Trining diagrams				

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 50/60HZ, 400VAC, 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





Product designation			Auxiliary 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-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
	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	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 same in the book book with E/X = Tome with 2 poles in some	≤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	Α	0,8
IEC may current to in DC2 DC5 with L/B < 15mg with 4 pales in parion	220 V		0,0
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	-04) /	۸	
	≤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)	aivi (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
	AC3	W	1.4
Tightening torque for terminals	7,00	V V	1.1
rightening torque for terminals		N I.a.	0.0
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
	max	Ibin	9
Tightening torque for coil terminal			
		Nine	0.0
	min	Nm	0.8
	min max		
		Nm Ibin	0.8 1 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			
		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			
		max		12
Auxiliary contact chara	acteristics			
Thermal current Ith			A	10
IEC/EN 60947-5-1 de				A600
Operating current AC	15			
		230V	Α	3
		400V	Α	1.9
		500V	Α	1.4
Operating current DC	12			
		110V	Α	2.9
Operating current DC	13			
		24V	Α	2.9
		48V	Α	1.4
		60V	Α	1.2
		110V	Α	0.6
		125V	Α	0.55
		220V	Α	0.3
		600V	Α	0.1
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	cycles	500000
		echanical load	cycles	20000000
Mirror contats accordi	ng to IEC/EN 609474-4-1			YES
EMC compatibility				YES
AC coil operating				
Rated AC voltage at 6	0Hz		V	24
-				



AC operating voltage					
to operating voltage	of 60Hz coil pow	ered at 60Hz			
		pick-up			
			min	%Us	75
			max	%Us	115
		drop-out			
		•	min	%Us	20
			max	%Us	55
C average coil consu	ımption at 20°C				
	of 50/60Hz coil p	owered at 50Hz			
			in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil p	owered at 60Hz			
			in-rush	VA	25
			holding	VA	3
	of 60Hz coil pow	ered at 60Hz			
			in-rush	VA	30
			holding	VA	4
issipation at holding	≤20°C 50Hz			W	0.9
Max cycles frequency					
lechanical operation				cycles/h	3600
perating times					
verage time for Us co					
	in AC	Olaska NO			
		Closing NO			40
			min	ms	12
		Ossailas NO	max	ms	21
		Opening NO			0
			min	ms	9
		Clasing NC	max	ms	18
		Closing NC	min	 .	17
			min	ms	17
		Opening NC	max	ms	26
		Opening NC	min	ma	7
			min	ms	7
	in DC		max	ms	17
	ווו טכ	Closing NO			
		Closing NO	min	ms	18
			max	ms	25
		Opening NO	IIIaX	1113	20
		Oponing NO	min	ms	2
			max	ms	3
		Closing NC	шах	1110	5
		Closing NO	min	ms	3
			max	ms	5
		Opening NC	max	1110	Ü
		oponing 110	min	ms	11
			max	ms	17
JL technical data			max	1113	17
ull-load current (FLA)	for three-phase A	C motor			
an ivaa varielli ii LA	i ioi iiiiee-piiase Ai	o motor	at 480V	Α	11
· · · · · · · · · · · · · · · · · · ·			at 400 V	$\overline{}$	1.1
(= 7			at 600V	Α	11

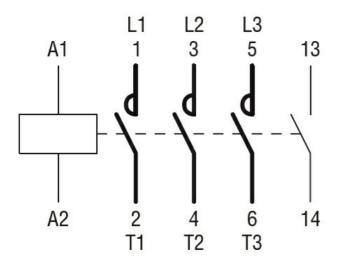




	for single-phase AC motor			
	.	110/120V	HP	0.5
		230V	HP	1.5
	for three-phase AC motor			
	·	200/208V	HP	3
		220/230V	HP	3
		460/480V	HP	7.5
		575/600V	HP	10
General USE		3.3,333		
Conoral COL	Contactor			
	Comación	AC current	Α	20
Short-circuit protection	fuse 600V	Ao caren		20
Short-circuit protection				
	High fault	Chart aircuit aurrant	IcΛ	100
		Short circuit current	kΑ	100
		Fuse rating	Α	30
		Fuse class		
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	30
	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				
44 (0.17") (0.17") (0.38") (0.38") (0.38") (0.38") (0.38") (0.38") (0.38") (0.38") (0.38") (0.38") (0.38") (0.30") (0.30") (0.30")				
8.5 (0.33")		(1.73")	7	89.2 (3.51") (0.30")
Wiring diagrams				

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 60HZ, 24VAC, 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





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 14 500V		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 ≤24V A 15 48V A 16 48V A 16 48V A 16 75V A 9 1110V A 8 220V A -		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	15
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 A 16 48V A 16 75V A 10		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	Α	_
	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 same in the Boo Boo with Eff = Tome with 2 poles in some	≤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	Α	0,8
IEC may current to in DC2 DC5 with L/B < 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	<0.4V/	۸	
	≤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)	aivi (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)			
, , , ,	lth	W	4
	AC3	W	1.4
Tightening torque for terminals	7,00	V V	1.1
rightening torque for terminals		N I.a.	0.0
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
	max	Ibin	9
Tightening torque for coil terminal			
		Nine	0.0
	min	Nm	0.8
	min max		
		Nm Ibin	0.8 1 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			
	min	mm²	1.5
	max	mm²	2.5
Power terminal protection according to IEC/EN 60529			IP20
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
	·		Screw / DIN rail
Fixing			35mm
Weight		g	200
Conductor section			
AWG/kcmil conductor section			
	max		12
Auxiliary contact characteristics			
Thermal current Ith		Α	10
EC/EN 60947-5-1 designation			A600
Operating current AC15			
	230V	Α	3
	400V	A	1.9
	500V	Α	1.4
Operating current DC12		- , ,	
Sporating darron Borz	110V	Α	2.9
Operating current DC13	1101		2.0
Sperating editions De 19	24V	Α	2.9
	48V	A	1.4
	60V	A	1.2
	110V	A	0.6
	110V 125V	A	0.55
	220V	A	0.3
	600V	A	0.1
Operations	000 V		0.1
Mechanical life		cycles	20000000
Electrical life		cycles	500000
_ICUIIUAI IIIC		Cycles	30000
Safety related data			
	rotod la a d	ovolee	E00000
Safety related data Performance level B10d according to EN/ISO 13489-1	rated load	cycles	500000
Safety related data Performance level B10d according to EN/ISO 13489-1 med	rated load chanical load	cycles cycles	20000000
Safety related data Performance level B10d according to EN/ISO 13489-1 med Mirror contats according to IEC/EN 609474-4-1		-	20000000 YES
Safety related data Performance level B10d according to EN/ISO 13489-1 med Mirror contats according to IEC/EN 609474-4-1 EMC compatibility		-	20000000
Safety related data Performance level B10d according to EN/ISO 13489-1 med Mirror contats according to IEC/EN 609474-4-1		-	20000000 YES



of 60Hz coil powered at 60Hz pick-up pick-up pick-up pick-up min wulls 75 max wulls 115 drop-out min wulls 20 max wulls 20 max wulls 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush vA 30 holding vA 4 of 50/60Hz coil powered at 60Hz in-rush vA 25 holding vA 30 of 60Hz coil powered at 60Hz in-rush vA 30 holding vA 4 25 holding vA 30 of 60Hz coil powered at 60Hz in-rush vA 30 holding vA 4 25 holding vA 30 26 Dissipation at holding s20°C 50Hz wax cycles frequency wax cycles frequency wax cycles frequency Closing NO Poerating times AC Closing NO min ms 12 max ms 18 Closing NC min ms 7 max ms 26 Opening NC min ms 7 max ms 26 Opening NO min ms 7 max ms 25 Opening NO min ms 12 max ms 25 Opening NO min ms 7 max ms 25 Opening NO min ms 18 max ms 25 Opening NO min ms 18 max ms 25 Opening NO min ms 3 max ms 25 Opening NO min ms 3 max ms 5 Opening NC min ms 3 max ms 5						
Pick-up min %Us 75 max %Us 115 More min %Us 20 max %Us 55 More	AC operating voltage					
Min %Us 75 75 75 75 75 75 75 7		of 60Hz coil powered	d at 60Hz			
Max			pick-up			
Acceptance Ac				min		
March Mar				max	%Us	115
AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz In-rush			drop-out			
AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz In-rush VA 30 holding VA 4 of 50/60Hz coil powered at 60Hz In-rush VA 25 holding VA 3 of 60Hz coil powered at 60Hz In-rush VA 25 holding VA 3 of 60Hz coil powered at 60Hz In-rush VA 30 holding VA 4 Dissipation at holding ≤20°C 50Hz W 0.9 Max cycles frequency W 0.9 Max cycles fr				min		
of 50/60Hz coil powered at 50Hz In-rush VA 30 holding VA 4				max	%Us	55
In-rush	AC average coil consu					
Molding		of 50/60Hz coil power	ered at 50Hz			
of 50/60Hz coil powered at 60Hz in-rush VA 25 holdring VA 3 of 60Hz coil powered at 60Hz in-rush VA 30 holdring VA 4 Dissipation at holding ≤20°C 50Hz W 0.9 Max cycles frequency Wechanical operation Cycles/h 3600 Operating times Closing NO Min ms 12 max ms 21 Opening NO min ms 18 Closing NC min ms 17 max ms 26 Opening NC min ms 17 max ms 26 Opening NO min ms 17 max ms 27 opening NO min ms 17 max ms 27 opening NC min ms 17 max ms 27 opening NC min ms 17 opening NC min ms 18 opening NC min ms 25 opening NC min ms 3 opening NC min ms 11 opening NC min ms 12 opening NC min ms min						
In-rush				holding	VA	4
Molding		of 50/60Hz coil power	ered at 60Hz			
of 60Hz coil powered at 60Hz in-rush VA 30 holding VA 4 Dissipation at holding ≤20°C 50Hz W 0.9 Max cycles frequency Wachanical operation cycles/h 3600 Operating times Average time for Us control in AC						
In-rush VA 30 holding VA 4				holding	VA	3
Nolding VA 4 VA 1		of 60Hz coil powered	d at 60Hz			
Dissipation at holding ≤20°C 50Hz						
Max cycles frequency Mechanical operation cycles/h 3600 <t< td=""><td>District Control</td><td>400°O 5011</td><td></td><td>holding</td><td></td><td></td></t<>	District Control	400°O 5011		holding		
Mechanical operation Cycles / Mode Special operation Cycles / Mode Average time for Us control in AC		≤20°C 50HZ			VV	0.9
Closing NO					oveles/b	3600
Average time for Us control in AC Closing NO min ms 12 max ms 21 Opening NO 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 17 in DC Closing NO min ms 18 Closing NO min ms 17 max ms 26 Opening NO min ms 18 max ms 25 Opening NO min ms 18 max ms 25 Opening NO min ms 18 max ms 25 Opening NO min ms 18 max ms 3 Closing NC min ms 3 max ms 5 Opening NC min ms 3 max ms 5 Opening NC min ms 3 max ms 5 Opening NC min ms 11 max ms 17 It technical data Full-load current (FLA) for three-phase AC motor					cycles/n	3600
Closing NO min ms 12 max ms 21	3	ontrol				
Closing NO min ms 12 max ms 21	Average time for US CC					
Opening NO min ms 12 max ms 21		III AC	Closing NO			
Opening NO min ms 9 max ms 18			Closing NO	min	me	12
Opening NO min ms 9 max ms 18						
Min			Opening NO	Παλ	1113	21
Closing NC			Opening NO	min	me	Q
Closing NC						
Min			Closing NC	max	1113	10
Opening NC min ms 7 max ms 17 max ms 18 max ms 25 max ms 25 max ms 25 max ms 3 max ms 3 max ms 5 max ms 5 max ms 17 max ms			Closing 110	min	ms	17
Opening NC						
Min ms 7 max ms 17			Opening NC			
Max ms 17			o por migra	min	ms	7
In DC						
Closing NO min ms 18 max ms 25 Opening NO		in DC				
Min			Closing NO			
Opening NO min ms 2			Č	min	ms	18
Opening NO min ms 2						
Closing NC max ms 3			Opening NO			
Closing NC max ms 3				min	ms	2
min ms 3 max ms 5 Opening NC				max	ms	3
Opening NC min ms 11 max ms 17			Closing NC			
Opening NC min ms 11 max ms 17 JL technical data Full-load current (FLA) for three-phase AC motor at 480V A 11 at 600V A 11				min	ms	
min ms 11 max ms 17 JL technical data Full-load current (FLA) for three-phase AC motor at 480V A 11 at 600V A 11				max	ms	5
max ms 17 UL technical data Full-load current (FLA) for three-phase AC motor at 480V A 11 at 600V A 11			Opening NC			
JL technical data Full-load current (FLA) for three-phase AC motor at 480V A 11 at 600V A 11				min	ms	
Full-load current (FLA) for three-phase AC motor at 480V A 11 at 600V A 11				max	ms	17
at 480V A 11 at 600V A 11	UL technical data					
at 600V A 11	Full-load current (FLA)	for three-phase AC m	notor			
Yielded mechanical performance				at 600V	Α	
	Yielded mechanical pe	ertormance				

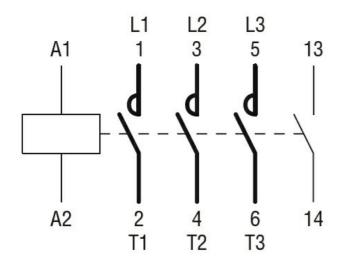




	for single-phase AC motor			
	5 .	110/120V	HP	0.5
		230V	HP	1.5
	for three-phase AC motor			
	·	200/208V	HP	3
		220/230V	HP	3
		460/480V	HP	7.5
		575/600V	HP	10
General USE				
	Contactor			
		AC current	Α	20
Short-circuit protection	on fuse. 600V			
	High fault			
	3	Short circuit current	kA	100
		Fuse rating	A	30
		Fuse class		J
	Standard fault	. 400 0,400		
		Short circuit current	kA	5
		Fuse rating	Α	30
Contact rating of auxi	liary contacts according to UL	. acc iamig		A600 - Q600
Ambient conditions	mary contracts according to CE			71000 4000
Temperature				
Tomporataro	Operating temperature			
	operating temperature	min	°C	-50
		max	°C	+70
	Storage temperature			
	Ctorage temperature	min	°C	-60
		max	°C	+80
Max altitude		max	m	3000
Resistance & Protect	ion			0000
Pollution degree				3
Dimensions				3
44 (1.73") (0.17") (0.17") (0.33") (0.33") (0.33") (0.33") (0.33") (0.38") Wiring diagrams	(2.24") (2.24") (3.88") (3.88") (3.88")	44 (1.73") (1.37") (0.12") 44 (1.73") (0.12") (0.12")	(2.28")	RF9 7.6 (0.30")
Trining diagrams				

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 60HZ, 48VAC, 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







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-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
150 H 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	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	A	8
150	220V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	-0.01		4.0
	≤24V	A	16
	48V	A	16
	75V	A	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	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	Α	_ 1
	220V	A	' _
IFO	220 V		
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	Α	8
	48V	Α	8
	75V	Α	5
	110V	Α	4
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series		- ' `	
ILO max current le in Doo-Doo with L/N = 15ms with 5 poles in series	<04)/	۸	10
	≤24V	A	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	A	_
	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)		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)			
1 1 (**********************************	lth	W	4
	AC3	W	1.44
Tightoning targue for terminals	703	v v	1.77
Tightening torque for terminals			0.0
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
	max	Ibin	9
Tightening torque for coil terminal			
J J 1	min	Nm	0.8
		Nm	
	max		1
	min	lbin	9



		max	lbin	9
	simultaneously connectable		Nr.	2
Conductor section	A) W O W '!			
	AWG/Kcmil			40
	Florible w/s live populator postion	max		12
	Flexible w/o lug conductor section	min	mama ²	0.75
		min	mm² mm²	0.75 2.5
	Flexible c/w lug conductor section	max	111111	2.0
	r lexible c/w lug corluctor section	min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section			2.0
	Tionale Militimodiated opade lag conductor coolen	min	mm²	1.5
		max	mm²	2.5
D (IP20 when
Power terminal protect	ction according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	180
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact chara	acteristics			
•	20101101100			
Thermal current Ith			А	10
Thermal current Ith IEC/EN 60947-5-1 de	esignation		Α	10 A600 - Q600
Thermal current Ith	esignation	0001/		A600 - Q600
Thermal current Ith IEC/EN 60947-5-1 de	esignation	230V	A	A600 - Q600 3
Thermal current Ith IEC/EN 60947-5-1 de	esignation	400V	A A	A600 - Q600 3 1.9
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC	esignation 15		A	A600 - Q600 3
Thermal current Ith IEC/EN 60947-5-1 de	esignation 15	400V 500V	A A A	A600 - Q600 3 1.9 1.4
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15	400V	A A	A600 - Q600 3 1.9
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC	esignation 15	400V 500V 110V	A A A	A600 - Q600 3 1.9 1.4 2.9
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15	400V 500V 110V 24V	A A A	A600 - Q600 3 1.9 1.4 2.9
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15	400V 500V 110V 24V 48V	A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15	400V 500V 110V 24V 48V 60V	A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15	400V 500V 110V 24V 48V 60V 110V	A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15	400V 500V 110V 24V 48V 60V	A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15	400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC	esignation 15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC	esignation 15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operating current DC Mechanical life	esignation 15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A Cycles	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	esignation 15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A Cycles	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	esignation 15 12 13	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A Cycles	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	esignation 12 13 Od according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A Cycles cycles	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operating current DC Electrical life Electrical life Safety related data Performance level B1	esignation 12 13 Od according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A Cycles cycles	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operating current DC Electrical life Electrical life Safety related data Performance level B1	esignation 12 13 Od according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A Cycles cycles	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 500000





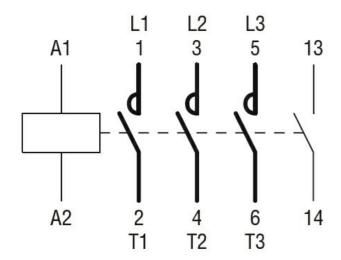
Rated AC voltage at				V	120
C operating voltage					
	of 60Hz coil po				
		pick-up	min	%Us	75
			max	%Us	115
		drop-out	max	7000	110
		·	min	%Us	20
			max	%Us	55
C average coil cons	sumption at 20°C				
	of 50/60Hz coil	powered at 50Hz			
			in-rush	VA	30
	. = 0 / 0 0 1 1 1 11		holding	VA	4
	of 50/60Hz coil	powered at 60Hz	in-rush	١/٨	25
			holding	VA VA	25 3
	of 60Hz coil po	wered at 60Hz	riolality	V/\	3
	0. 001 12 0011 p0		in-rush	VA	30
			holding	VA	4
Dissipation at holding	g ≤20°C 50Hz			W	0.95
Max cycles frequency	У				
lechanical operation	1			cycles/h	3600
Operating times					
verage time for Us					
	in AC	Olegia a NO			
		Closing NO	min	ms	12
			max	ms	21
		Opening NO	max	1110	21
		o pointing vio	min	ms	9
			max	ms	18
		Closing NC			
		Closing NC	min	ms	17
			min max	ms ms	17 26
		Closing NC Opening NC	max	ms	26
			max min	ms ms	267
	in DC		max	ms	26
	in DC	Opening NC	max min	ms ms	267
	in DC		max min max	ms ms ms	26 7 17
	in DC	Opening NC	max min	ms ms	267
	in DC	Opening NC	max min max min	ms ms ms	26 7 17
	in DC	Opening NC Closing NO	max min max min	ms ms ms	26 7 17 18 25 2
	in DC	Opening NC Closing NO Opening NO	max min max min max	ms ms ms	26 7 17 18 25
	in DC	Opening NC Closing NO	max min max min max min max	ms ms ms ms ms	26 7 17 18 25 2
	in DC	Opening NC Closing NO Opening NO	max min max min max min max min max min	ms ms ms ms ms ms ms ms	26 7 17 18 25 2 3
	in DC	Opening NO Closing NO Opening NO Closing NC	max min max min max min max	ms ms ms ms ms	26 7 17 18 25 2
	in DC	Opening NC Closing NO Opening NO	max min max min max min max min max	ms ms ms ms ms ms ms ms ms	26 7 17 18 25 2 3 3 5
	in DC	Opening NO Closing NO Opening NO Closing NC	max min max min max min max min max min max min max	ms	26 7 17 18 25 2 3 3 5
JL technical data	in DC	Opening NO Closing NO Opening NO Closing NC	max min max min max min max min max	ms ms ms ms ms ms ms ms ms	26 7 17 18 25 2 3 3 5
		Opening NC Closing NO Opening NO Closing NC Opening NC	max min max min max min max min max min max min max	ms	26 7 17 18 25 2 3 3 5
JL technical data Full-load current (FL/		Opening NC Closing NO Opening NO Closing NC Opening NC	max min max min max min max min max min max min max	ms	26 7 17 18 25 2 3 3 5



Yielded mechanica	al performance			
	for single-phase AC motor			
		110/120V	HP	0.5
		230V	HP	1.5
	for three-phase AC motor			
	Tel unice prides / le mele.	200/208V	HP	3
		220/230V	HP	3
		460/480V	HP	7.5
		575/600V	HP	10
General USE		313/000 V	- ' ''	10
Jeneral OOL	Contactor			
	Contactor	A.C. a.uma.at	۸	20
01		AC current	Α	20
Short-circuit protec				
	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 au	uxiliary contacts according to UL			A600 - Q600
Ambient conditions				
Temperature				
	Operating temperature			
	oporating temperature	min	°C	-50
		max	°C	+70
	Storage temperature	IIIdX		+70
	Storage temperature	min	°C	-60
		min		
		max	°C	+80
Max altitude			m	3000
Resistance & Prote	ection			
Pollution degree				3
Dimensions				
(0.17") (0.17") (0.33") (0.33") (0.33")	7. — 34.9 — (1.37")	3.2 (1.37") 3.2 (0.12'	(2.28")	89.2 - 7.6 (0.30)
8.5 (0.33")		(1.73")	-	89.2 (3.51") (0.30°
Wiring diagrams		V		

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 60HZ, 120VAC, 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





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 14 500V		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 ≤24V A 15 48V A 16 48V A 16 48V A 16 75V A 9 1110V A 8 220V A -		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	15
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 A 16 48V A 16 75V A 10		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	Α	_
	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 same in the Boo Boo with Eff = Tome with 2 poles in some	≤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	Α	0,8
IEC may current to in DC2 DC5 with L/B < 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	-04 1/	۸	
	≤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)	aivi (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)			
, , , ,	lth	W	4
	AC3	W	1.4
Tightening torque for terminals	7,00	V V	1.1
rightening torque for terminals		N I.a.	0.0
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
	max	Ibin	9
Tightening torque for coil terminal			
		Nine	0.0
	min	Nm	0.8
	min max		
		Nm Ibin	0.8 1 9



		may	Ibin	9
Max number of wires	simultaneously connectable	max	Nr.	2
Conductor section	Simulationary confidences		1 11.	
Conductor Cochon	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		2	
		min	mm²	1.5
Dower terminal protec	otion apparding to IEC/EN 60520	max	mm²	2.5
Mechanical features	ction according to IEC/EN 60529			IP20
Operating position				
Sperating position		normal		Vertical plan
		allowable		±30°
		anowabio		Screw / DIN rail
Fixing				35mm
Weight			g	200
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact char	acteristics			
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de				A600
Operating current AC	15	0001/		•
		230V 400V	A	3
		500V	A A	1.9 1.4
Operating current DC	12	300 V		1.4
Operating current DO	112	110V	Α	2.9
Operating current DC	13	1100		2.0
oporating carroin 20		24V	Α	2.9
		48V	Α	1.4
		60V	Α	1.2
		110V	Α	0.6
		125V	Α	0.55
		220V	Α	0.3
		600V	Α	0.1
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data				
Performance level B1	10d according to EN/ISO 13489-1		_	
		rated load	cycles	500000
.		mechanical load	cycles	20000000
	ing to IEC/EN 609474-4-1			YES
EMC compatibility				YES
AC coil operating	2011-		\ /	
Rated AC voltage at 6	DUHZ		V	220



of 60Hz coil powered at 60Hz pick-up pick-up pick-up pick-up min wulls 75 max wulls 115 drop-out min wulls 20 max wulls 20 max wulls 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush vA 30 holding vA 4 of 50/60Hz coil powered at 60Hz in-rush vA 25 holding vA 30 of 60Hz coil powered at 60Hz in-rush vA 30 holding vA 4 25 holding vA 30 of 60Hz coil powered at 60Hz in-rush vA 30 holding vA 4 25 holding vA 30 26 Dissipation at holding s20°C 50Hz wax cycles frequency wax cycles frequency wax cycles frequency Closing NO Poerating times AC Closing NO min ms 12 max ms 18 Closing NC min ms 7 max ms 26 Opening NC min ms 7 max ms 26 Opening NO min ms 7 max ms 25 Opening NO min ms 12 max ms 25 Opening NO min ms 7 max ms 25 Opening NO min ms 18 max ms 25 Opening NO min ms 18 max ms 25 Opening NO min ms 3 max ms 25 Opening NO min ms 3 max ms 5 Opening NC min ms 3 max ms 5						
Pick-up min %Us 75 max %Us 115 More min %Us 20 max %Us 55 More	AC operating voltage					
Min %Us 75 75 75 75 75 75 75 7		of 60Hz coil powered	d at 60Hz			
Max			pick-up			
Acceptance Ac				min		
March Mar				max	%Us	115
AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz In-rush			drop-out			
AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz In-rush VA 30 holding VA 4 of 50/60Hz coil powered at 60Hz In-rush VA 25 holding VA 3 of 60Hz coil powered at 60Hz In-rush VA 25 holding VA 3 of 60Hz coil powered at 60Hz In-rush VA 30 holding VA 4 Dissipation at holding ≤20°C 50Hz W 0.9 Max cycles frequency W 0.9 Max cycles fr				min		
of 50/60Hz coil powered at 50Hz In-rush VA 30 holding VA 4				max	%Us	55
In-rush	AC average coil consu					
Molding		of 50/60Hz coil power	ered at 50Hz			
of 50/60Hz coil powered at 60Hz in-rush VA 25 holdring VA 3 of 60Hz coil powered at 60Hz in-rush VA 30 holdring VA 4 Dissipation at holding ≤20°C 50Hz W 0.9 Max cycles frequency Wechanical operation Cycles/h 3600 Operating times Closing NO Min ms 12 max ms 21 Opening NO min ms 18 Closing NC min ms 17 max ms 26 Opening NC min ms 17 max ms 26 Opening NO min ms 17 max ms 27 opening NO min ms 17 max ms 27 opening NC min ms 17 max ms 27 opening NC min ms 17 opening NC min ms 18 opening NC min ms 25 opening NC min ms 3 opening NC min ms 11 opening NC min ms 12 opening NC min ms min						
In-rush				holding	VA	4
Molding		of 50/60Hz coil power	ered at 60Hz			
of 60Hz coil powered at 60Hz in-rush VA 30 holding VA 4 Dissipation at holding ≤20°C 50Hz W 0.9 Max cycles frequency Wachanical operation cycles/h 3600 Operating times Average time for Us control in AC						
In-rush VA 30 holding VA 4				holding	VA	3
Nolding VA 4 VA 1		of 60Hz coil powered	d at 60Hz			
Dissipation at holding ≤20°C 50Hz						
Max cycles frequency Mechanical operation cycles/h 3600 <t< td=""><td>District Control</td><td>400°O 5011</td><td></td><td>holding</td><td></td><td></td></t<>	District Control	400°O 5011		holding		
Mechanical operation Cycles / Mode Special operation Cycles / Mode Average time for Us control in AC		≤20°C 50HZ			VV	0.9
Closing NO					oveles/b	3600
Average time for Us control in AC Closing NO min ms 12 max ms 21 Opening NO 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 17 in DC Closing NO min ms 18 Closing NO min ms 17 max ms 26 Opening NO min ms 18 max ms 25 Opening NO min ms 18 max ms 25 Opening NO min ms 18 max ms 25 Opening NO min ms 18 max ms 3 Closing NC min ms 3 max ms 5 Opening NC min ms 3 max ms 5 Opening NC min ms 3 max ms 5 Opening NC min ms 11 max ms 17 It technical data Full-load current (FLA) for three-phase AC motor					cycles/n	3600
Closing NO min ms 12 max ms 21	3	ontrol				
Closing NO min ms 12 max ms 21	Average time for US CC					
Opening NO min ms 12 max ms 21		III AC	Closing NO			
Opening NO min ms 9 max ms 18			Closing NO	min	me	12
Opening NO min ms 9 max ms 18						
Min			Opening NO	Παλ	1113	21
Closing NC			Opening NO	min	me	Q
Closing NC						
Min			Closing NC	max	1113	10
Opening NC min ms 7 max ms 17 max ms 18 max ms 25 max ms 25 max ms 25 max ms 3 max ms 3 max ms 5 max ms 5 max ms 17 max ms			Closing 110	min	ms	17
Opening NC						
Min ms 7 max ms 17			Opening NC			
Max ms 17			o por migra	min	ms	7
In DC						
Closing NO min ms 18 max ms 25 Opening NO		in DC				
Min			Closing NO			
Opening NO min ms 2			Č	min	ms	18
Opening NO min ms 2						
Closing NC max ms 3			Opening NO			
Closing NC max ms 3				min	ms	2
min ms 3 max ms 5 Opening NC				max	ms	3
Opening NC min ms 11 max ms 17			Closing NC			
Opening NC min ms 11 max ms 17 JL technical data Full-load current (FLA) for three-phase AC motor at 480V A 11 at 600V A 11				min	ms	
min ms 11 max ms 17 JL technical data Full-load current (FLA) for three-phase AC motor at 480V A 11 at 600V A 11				max	ms	5
max ms 17 UL technical data Full-load current (FLA) for three-phase AC motor at 480V A 11 at 600V A 11			Opening NC			
JL technical data Full-load current (FLA) for three-phase AC motor at 480V A 11 at 600V A 11				min	ms	
Full-load current (FLA) for three-phase AC motor at 480V A 11 at 600V A 11				max	ms	17
at 480V A 11 at 600V A 11	UL technical data					
at 600V A 11	Full-load current (FLA)	for three-phase AC m	notor			
Yielded mechanical performance				at 600V	Α	
	Yielded mechanical pe	ertormance				

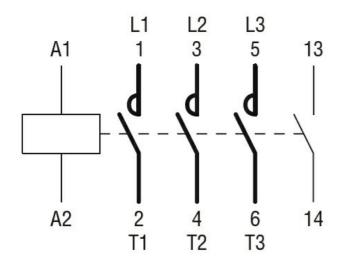




	for single-phase AC motor			
	5 .	110/120V	HP	0.5
		230V	HP	1.5
	for three-phase AC motor			
	·	200/208V	HP	3
		220/230V	HP	3
		460/480V	HP	7.5
		575/600V	HP	10
General USE				
	Contactor			
		AC current	Α	20
Short-circuit protection	on fuse. 600V			
	High fault			
	3	Short circuit current	kA	100
		Fuse rating	A	30
		Fuse class		J
	Standard fault	. 400 0,400		
		Short circuit current	kA	5
		Fuse rating	Α	30
Contact rating of auxi	liary contacts according to UL	. uoo iumig		A600 - Q600
Ambient conditions	mary contracts according to CE			71000 4000
Temperature				
Tomporataro	Operating temperature			
	operating temperature	min	°C	-50
		max	°C	+70
	Storage temperature			
	Ctorage temperature	min	°C	-60
		max	°C	+80
Max altitude		max	m	3000
Resistance & Protect	ion			0000
Pollution degree				3
Dimensions				3
44 (1.73") (0.17") (0.17") (0.33") (0.33") (0.33") (0.33") (0.33") (0.38") Wiring diagrams	(2.24") (2.24") (3.88") (3.88") (3.88")	44 (1.73") (1.37") (0.12") 44 (1.73") (0.12") (0.12")	(2.28")	RF9 7.6 (0.30")
Trining diagrams				

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 60HZ, 220VAC, 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





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 14 500V		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 ≤24V A 15 48V A 16 48V A 16 48V A 16 75V A 9 1110V A 8 220V A -		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	15
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 A 16 48V A 16 75V A 10		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	Α	_
	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 same in the Boo Boo with Eff = Tome with 2 poles in some	≤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	Α	0,8
IEC may current to in DC2 DC5 with L/B < 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	-04 1/	۸	
	≤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)	aivi (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)			
, , , ,	lth	W	4
	AC3	W	1.4
Tightening torque for terminals	7,00	V V	1.1
rightening torque for terminals		N I.a.	0.0
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
	max	Ibin	9
Tightening torque for coil terminal			
		Nine	0.0
	min	Nm	0.8
	min max		
		Nm Ibin	0.8 1 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			
		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			
		max		12
Auxiliary contact char	acteristics		•	10
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	•			A600
Operating current AC	15	0001/		•
		230V	A	3
		400V	A	1.9
O	40	500V	A	1.4
Operating current DC	12	440)/	Δ.	0.0
0 " 100	40	110V	Α	2.9
Operating current DC	13	0.417		2.2
		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
Mechanical life			ovolco	20000000
Electrical life			cycles	
			cycles	500000
Safety related data	Od coording to EN/ICO 40400 4			
renormance level B1	0d according to EN/ISO 13489-1		a, . a l · ·	F00000
		rated load	cycles	500000
Minnen		mechanical load	cycles	20000000
	ing to IEC/EN 609474-4-1			YES
EMC compatibility				YES
AC coil operating				222
Rated AC voltage at 6	DUMZ		V	230



AC operating voltage					
rto oporating voltage	of 60Hz coil pow	ered at 60Hz			
	·	pick-up			
			min	%Us	75
			max	%Us	115
		drop-out			
			min	%Us	20
			max	%Us	55
AC average coil consu	•				
	of 50/60Hz coil p	owered at 50HZ	in runh	VA	20
			in-rush holding	VA VA	30 4
	of 50/60Hz coil p	nowered at 60Hz	Holding	VA	4
	οι 30/00112 (οιι μ	owered at our iz	in-rush	VA	25
			holding	VA	3
	of 60Hz coil pow	ered at 60Hz	Holding	٧, ١	
	5. 551 12 5011 pow	2.23 W. CC. /L	in-rush	VA	30
			holding	VA	4
Dissipation at holding :	 ≤20°C 50Hz			W	0.9
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co	ontrol				
	in AC				
		Closing NO			
			min	ms	12
			max	ms	21
		Opening NO			
			min	ms	9
		Obstan NO	max	ms	18
		Closing NC			47
			min	ms	17 26
		Opening NC	max	ms	20
		Opening NC			
			min	me	7
			min max	ms ms	7 17
	in DC	_	min max	ms ms	7 17
	in DC				
	in DC	Closing NO	max	ms	17
	in DC				
	in DC		max min	ms ms	17
	in DC	Closing NO	max min	ms ms	17
	in DC	Closing NO Opening NO	max min max	ms ms ms	17 18 25
	in DC	Closing NO	max min max min	ms ms ms	17 18 25 2
	in DC	Closing NO Opening NO	max min max min	ms ms ms ms	18 25 2 3 3
	in DC	Closing NO Opening NO Closing NC	max min max min max	ms ms ms	18 25 2 3
	in DC	Closing NO Opening NO	min max min max min max	ms ms ms ms ms	18 25 2 3 3 5
	in DC	Closing NO Opening NO Closing NC	max min max min max min max min max	ms ms ms ms ms ms ms	18 25 2 3 3 5
	in DC	Closing NO Opening NO Closing NC	min max min max min max	ms ms ms ms ms	18 25 2 3 3 5
		Closing NO Opening NO Closing NC Opening NC	max min max min max min max min max	ms ms ms ms ms ms ms	17 18 25 2 3 3 5
		Closing NO Opening NO Closing NC Opening NC	min max min max min max min max	ms ms ms ms ms ms ms ms	17 18 25 2 3 3 5
<mark>UL technical data</mark> Full-load current (FLA)		Closing NO Opening NO Closing NC Opening NC	max min max min max min max min max	ms ms ms ms ms ms ms	17 18 25 2 3 3 5

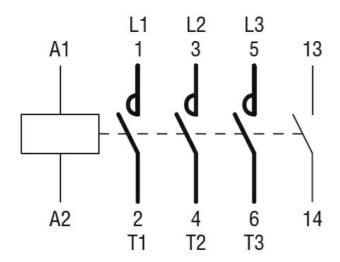




	for single-phase AC motor			
		110/120V	HP	0.5
		230V	HP	1.5
	for three-phase AC motor			
	·	200/208V	HP	3
		220/230V	HP	3
		460/480V	HP	7.5
		575/600V	HP	10
General USE				
	Contactor			
		AC current	Α	20
Short-circuit protection	n fuse, 600V			
•	High fault			
	5	Short circuit current	kA	100
		Fuse rating	Α	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	30
Contact rating of auxilia	ary contacts according to UL	<u> </u>		A600 - Q600
Ambient conditions				
Temperature				
, , , , , , , , , , , , , , , , , , , ,	Operating temperature			
	operating temperature	min	°C	-50
		max	°C	+70
	Storage temperature			
	Ctorago tomporaturo	min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protection	on			
Pollution degree				3
Dimensions				
4.4 (0.17") (0.17") (0.17") (0.33") (0.33") (0.33") (0.33")	34.9 — (1.37")	34.9 (1.73") (1.73") (0.12") (1.73") (1.73")	(2.28")	8F9 -7.6 (0.30")

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 60HZ, 230VAC, 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







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 14 500V		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 ≤24V A 15 48V A 16 48V A 16 48V A 16 75V A 9 1110V A 8 220V A -		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	15
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 A 16 48V A 16 75V A 10		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	Α	_
	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 same in the Boo Boo with Eff = Tome with 2 poles in some	≤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	Α	0,8
IEC may current to in DC2 DC5 with L/B < 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	-04 1/	۸	
	≤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)	aivi (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)			
, , , ,	lth	W	4
	AC3	W	1.4
Tightening torque for terminals	7,00	V V	1.1
rightening torque for terminals		N I.a.	0.0
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
	max	Ibin	9
Tightening torque for coil terminal			
		Nine	0.0
	min	Nm	0.8
	min max		
		Nm Ibin	0.8 1 9



Max number of wires simultaneously connectable	max	Ibin	9
		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			
· · ·	min	mm²	1.5
	max	mm²	2.5
Power terminal protection according to IEC/EN 60529			IP20
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
Finite a			Screw / DIN rail
Fixing			35mm
Weight		g	200
Conductor section			
AWG/kcmil conductor section			
	max		12
Auxiliary contact characteristics			
Thermal current Ith		Α	10
IEC/EN 60947-5-1 designation			A600
Operating current AC15			
	230V	Α	3
	400 V	Α	1.9
	400V 500V	A A	1.9 1.4
Operating current DC12	500V	A A	1.9 1.4
Operating current DC12	500V	Α	1.4
Operating current DC12 Operating current DC13	500V 110V	A	2.9
	500V 110V 24V	A A	1.4 2.9 2.9
	500V 110V 24V 48V	A A A	1.4 2.9 2.9 1.4
	500V 110V 24V 48V 60V	A A A A	1.4 2.9 2.9 1.4 1.2
	500V 110V 24V 48V 60V 110V	A A A A A	1.4 2.9 2.9 1.4 1.2 0.6
	500V 110V 24V 48V 60V 110V 125V	A A A A A A	1.4 2.9 2.9 1.4 1.2 0.6 0.55
	500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3
Operating current DC13	500V 110V 24V 48V 60V 110V 125V	A A A A A A	1.4 2.9 2.9 1.4 1.2 0.6 0.55
Operating current DC13 Operations	500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current DC13 Operations Mechanical life	500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A Cycles	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current DC13 Operations Mechanical life Electrical life	500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current DC13 Operations Mechanical life Electrical life Safety related data	500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A Cycles	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current DC13 Operations Mechanical life Electrical life	500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles cycles	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Operating current DC13 Operations Mechanical life Electrical life Safety related data Performance level B10d according to EN/ISO 13489-1	110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A Cycles cycles	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Operating current DC13 Operations Mechanical life Electrical life Safety related data Performance level B10d according to EN/ISO 13489-1 mec	500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles cycles	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 20000000
Operating current DC13 Operations Mechanical life Electrical life Safety related data Performance level B10d according to EN/ISO 13489-1 meci	110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A Cycles cycles	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 500000 YES
Operating current DC13 Operations Mechanical life Electrical life Safety related data Performance level B10d according to EN/ISO 13489-1 mechanical mechanical life Mirror contats according to IEC/EN 609474-4-1 EMC compatibility	110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A Cycles cycles	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 20000000
Operating current DC13 Operations Mechanical life Electrical life Safety related data Performance level B10d according to EN/ISO 13489-1 meci	110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A Cycles cycles	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 500000 YES



A.C. on a vetion veltage					
AC operating voltage	of 60Hz coil powe	ared at 60Hz			
	or ouriz con powe	pick-up			
		ριοκ-αρ	min	%Us	75
			max	%Us	115
		drop-out	max	7003	110
		diop out	min	%Us	20
			max	%Us	55
AC average coil consu	ımntion at 20°C		mux	7000	
to average con const	of 50/60Hz coil po	owered at 50Hz			
	01 00/001 12 0011 pt	5W616G at 66112	in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil po	owered at 60Hz	noiding	*/*	'
	01 00/001 12 0011 pt	5W010d at 00112	in-rush	VA	25
			holding	VA	3
	of 60Hz coil power	ered at 60Hz	Holding	٧, ١	
	51 551 12 5511 powe	7.00 at 00112	in-rush	VA	30
			holding	VA	4
Dissipation at holding			Holding	W	0.9
Max cycles frequency				VV	0.5
Mechanical operation				cycles/h	3600
Operating times				Cy 0100/11	0000
verage time for Us co	ontrol				
wordgo arrio for Go o	in AC				
	111710	Closing NO			
		Closing 140	min	ms	12
			max	ms	21
		Opening NO	max	1110	
		operge	min	ms	9
			max	ms	18
		Closing NC	max	1110	10
		0.00m.g . 10	min	ms	17
			max	ms	26
		Opening NC			
		operge	min	ms	7
			max	ms	17
	in DC		High		-
	= 0	Closing NO			
		0.00m.g . 10	min	ms	18
			max	ms	25
		Opening NO		•	-
					2
		Sporming 113	min	ms	
		opolining ite	min max	ms ms	
			min max	ms ms	3
		Closing NC	max	ms	3
				ms ms	3
		Closing NC	max min	ms	3
			max min max	ms ms ms	3 3 5
		Closing NC	max min max min	ms ms ms	3 5 11
JL technical data		Closing NC	max min max	ms ms ms	3 3 5
) for three-phase AC	Closing NC Opening NC	max min max min	ms ms ms	3 5 11
) for three-phase AC	Closing NC Opening NC	max min max min max	ms ms ms ms	3 5 11 17
JL technical data Full-load current (FLA)) for three-phase AC	Closing NC Opening NC	max min max min	ms ms ms	3 5 11

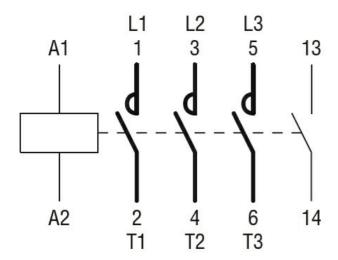




	for single-phase AC motor			
		110/120V	HP	0.5
		230V	HP	1.5
	for three-phase AC motor			
	·	200/208V	HP	3
		220/230V	HP	3
		460/480V	HP	7.5
		575/600V	HP	10
General USE				
	Contactor			
		AC current	Α	20
Short-circuit protection	fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	Α	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	30
	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") (0.17") (0.33") (0.33") (0.33") (0.33") Wiring diagrams	34.9 (1.37")	44 (1.73") (1.73") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37")	(2.28")	RF9 7.6 (0.30")

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





Product designation			Auxiliary 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-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
	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 out one to in 200 200 mai 2/1 = 10mb mai 1 poloci in conce	≤24V	Α	7
	48V	A	6
	75V	A	2
	110V	A	1
	220V		
IFC many assument to in DC2 DC5 with 1/D < 45 may with 2 males in series	2201	A	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	-04) /		•
	≤24V	A	8
	48V	Α	8
	75V	Α	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			0,0
120 max sarronx to in 200 200 mar 2/X = 10mb max + police in collect	≤24V	Α	_
	48V	A	_
	75V	A	
	110V		_
		A	_
Chart time allowable correct for 40a (IEC/ENCO047.4)	220V	A	-
Short-time allowable current for 10s (IEC/EN60947-1)		Α	96
Protection fuse	0 (150)		
	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	1.4
Tightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
Tightoning targue for call terminal	max	Ibin	9
Tightening torque for coil terminal		N 1 .	0.0
	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			
		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			
		max		12
Auxiliary contact chara	acteristics		•	4.0
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	-			A600
Operating current AC	15	0001/		
		230V	A	3
		400V	A	1.9
0	40	500V	A	1.4
Operating current DC	12	4401/	Δ.	0.0
0 " (50	40	110V	Α	2.9
Operating current DC	13	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
Mechanical life			ovolco	20000000
Electrical life			cycles	
			cycles	500000
Safety related data	Od according to EN/ICO 40400 4			
renormance level B1	0d according to EN/ISO 13489-1		a, . a l · ·	F00000
		rated load	cycles	500000
Minnen acceptation "		mechanical load	cycles	20000000
	ng to IEC/EN 609474-4-1			YES
EMC compatibility				YES
AC coil operating			. ,	575
Rated AC voltage at 6	DUHZ		V	575



			-	
of 60Hz coil now	warad at 60Hz			
or dornz con pow				
	ριοκ-αρ	min	%l ls	75
				115
	dron-out	max	7003	110
	drop out	min	%l ls	20
				55
sumption at 20°C		- ITIOX	7000	
	powered at 50Hz			
01 00/001 12 0011	pe. 101 at 001.12	in-rush	VA	30
				4
of 50/60Hz coil	 powered at 60Hz			· ·
01 00/001 12 0011	perior at 60.12	in-rush	VA	25
				3
of 60Hz coil pov	vered at 60Hz			
5. 55. 12 5611 por		in-rush	VA	30
				4
 ı ≤20°C 50Hz				0.9
				J. J
			cycles/h	3600
			9 212 2,11	
control				
	Closing NO			
	3 - 3	min	ms	12
				21
	Openina NO			
	-1 - 3	min	ms	9
			ms	18
	Closing NC			
	Ü	min	ms	17
			ms	26
	Opening NC			
	1 3	min	ms	7
				17
in DC				
	Closing NO			
	Ŭ	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
A) for three-phase A	AC motor			
A) for three-phase <i>F</i>	AC motor	at 480V	Α	11
<u></u>	sumption at 20°C of 50/60Hz coil of 50/60Hz coil of 60Hz coil pove g ≤20°C 50Hz y n control in AC	of 50/60Hz coil powered at 50Hz of 50/60Hz coil powered at 60Hz of 60Hz coil powered at 60Hz g ≤20°C 50Hz y control in AC Closing NO Opening NO Closing NC Opening NC in DC Closing NO Opening NO Closing NO	pick-up	Dick-up Min Mus Mus Max Mus Mus Max Mus Mus

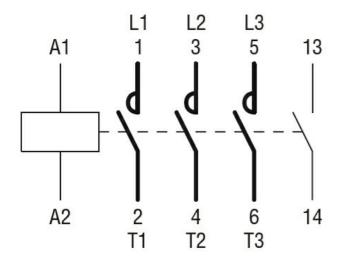




for single-phase AC motor for three-phase AC motor Contactor Guse, 600V	110/120V 230V 200/208V 220/230V 460/480V 575/600V	HP HP HP HP HP	0.5 1.5 3 3 7.5 10
Contactor	200/208V 220/230V 460/480V	HP HP HP	3 3 7.5
Contactor	220/230V 460/480V	HP HP	3 7.5
	220/230V 460/480V	HP HP	3 7.5
	460/480V	HP	7.5
	575/600V	HP	10
iuse 600V			
use 600V	AC current	Α	20
400, 000 1			
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
ry contacts according to UL			A600 - Q600
Operating temperature			
	min		-50
	max	°C	+70
Storage temperature			
	min		-60
	max	°C	+80
		m	3000
1			
			3
34.9 1.37")	3.74.2 □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	(2.58")	RE9 7.6 (0.30")
	Standard fault y contacts according to UL Operating temperature Storage temperature	Short circuit current Fuse rating Fuse class Standard fault Short circuit current Fuse rating y contacts according to UL Operating temperature min max Storage temperature min max Storage temperature	Short circuit current Fuse rating Fuse class Standard fault Short circuit current KA Fuse rating A Fuse rating A y contacts according to UL Operating temperature min °C max °C Storage temperature min °C max °C max °C max °C

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 60HZ, 575VAC, 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