





Product designation			
			Power contactor
Product type designation			BG09
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 nequency	min	Hz	25
		Hz	400
IEC Conventional free air thermal current Ith	max		
		Α	20
Operational current le	10.4 (44000)		0.0
	AC-1 (≤40°C)	Α	20
	AC-1 (≤55°C)	Α	18
	AC-1 (≤70°C)	Α	15
	AC-3 (≤440V ≤55°C)	Α	9
	AC-4 (400V)	Α	4
Rated operational power AC-3 (T≤55°C)			
	230V	kW	2.2
	400V	kW	4
	415V	kW	4.3
	440V	kW	4.5
	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			
The max carrone to in Bot with Effe Time with a police in conse	≤24V	Α	12
	48V	A	10
	75V	A	4
	110V	A	3
	220V	A	3
IEC may current to in DC1 with L/D < 1 mg with 2 notes in parios	220 V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	40414	Δ.	4.5
	≤24V	A	15
	48V	A	14
	75V	A	9
	110V	Α	8
·	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	Α	16
			4.0
	48V	Α	16
	48V 75V	A A	16 10





	220V	Α	2
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
·	≤24V	Α	16
	48V	Α	16
	75V	Α	10
	110V	Α	10
	220V	A	2
IFO	220 V	A	
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			
· ·	≤24V	Α	8
	48V	Α	8
	75V	Α	5
	110V	A	4
150	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	10
	48V	Α	10
	75V		
		A	6
	110V	Α	5
	220V	Α	0,8
Short-time allowable current for 10s (IEC/EN60947-1)		Α	96
Protection fuse			
	gG (IEC)	Α	20
	aM (IEC)	Α	10
Making capacity (RMS value)	,	Α	92
Breaking capacity at voltage			
	440V	Α	72
	500V	A	72 72
	690V	A	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	Ith	W	4
	AC3	W	0.81
Tightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	lbin	9
Tightoning torque for coil terminal	Шах	ווטו	<u> </u>
Tightening torque for coil terminal		<b>N</b> I .	0.0
	min	Nm	0.8
	max	Nm	1
	min	lbin	9





		max	lbin	9
	simultaneously connectable		Nr.	2
Conductor section	AMO (14			
	AWG/Kcmil			40
	Florible w/e lug conductor coetion	max		12
	Flexible w/o lug conductor section	min	mm²	0.75
		max	mm²	0.75 2.5
	Flexible c/w lug conductor section	Παλ	111111	2.3
	r lexible 6/w lug conductor section	min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section			2.0
	. Ionibio min inodiated spade lag conductor coolien	min	mm²	1.5
		max	mm²	2.5
				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	178
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact char	acteristics			
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de				A600 - Q600
		2001		A600 - Q600
IEC/EN 60947-5-1 de		230V	A	A600 - Q600 3
IEC/EN 60947-5-1 de		400V	A A	A600 - Q600 3 1.9
IEC/EN 60947-5-1 de Operating current AC	15		A	A600 - Q600 3
IEC/EN 60947-5-1 de	15	400V 500V	A A A	A600 - Q600 3 1.9 1.4
Operating current DC	15	400V	A A	A600 - Q600 3 1.9
IEC/EN 60947-5-1 de Operating current AC	15	400V 500V 110V	A A A	A600 - Q600 3 1.9 1.4 2.9
Operating current DC	15	400V 500V 110V 24V	A A A	A600 - Q600 3 1.9 1.4 2.9
Operating current DC	15	400V 500V 110V 24V 48V	A A A A	A600 - Q600  3 1.9 1.4  2.9  2.9 1.4
Operating current DC	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
Operating current DC	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
Operating current DC	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
Operating current DC	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A	A600 - Q600  3 1.9 1.4  2.9  2.9 1.4 1.2 0.6
Operating current DC	15	400V 500V 110V 24V 48V 60V 110V 125V	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
Operating current DC Operating current DC Operating current DC	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
Operating current DC	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 0.1
Operating current DC Operations Mechanical life	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
Operating current DC Operations Mechanical life Electrical life Safety related data	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
Operating current DC Operations Mechanical life Electrical life Safety related data	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	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
Operating current DC Operations Mechanical life Electrical life Safety related data	115 112 113 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	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
Operating current DC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B	115 112 113 10d 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
Operating current DC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B	112 113 10d 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





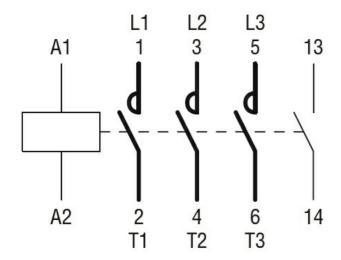
Rated AC voltage at				V	24
C operating voltage					
	of 50/60Hz coil po				
		pick-up	min	%Us	75
			max	%Us	75 115
		drop-out	max	7003	110
		а. ор оа.	min	%Us	20
			max	%Us	55
	of 50/60Hz coil po	owered at 60Hz			
		pick-up			
			min	%Us	80
			max	%Us	115
		drop-out			
			min	%Us	20
	aumention at 20°C		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	<ul><li>21</li><li>9</li><li>18</li><li>17</li></ul>
		Opening NO Closing NC	max min max	ms ms ms	<ul><li>21</li><li>9</li><li>18</li></ul>
		Opening NO	max min max min max	ms ms ms ms	<ul><li>21</li><li>9</li><li>18</li><li>17</li><li>26</li></ul>
		Opening NO Closing NC	max min max min max min	ms ms ms ms ms	<ul><li>21</li><li>9</li><li>18</li><li>17</li><li>26</li><li>7</li></ul>
	in AC	Opening NO Closing NC	max min max min max	ms ms ms ms	<ul><li>21</li><li>9</li><li>18</li><li>17</li><li>26</li></ul>
		Opening NO Closing NC Opening NC	max min max min max min	ms ms ms ms ms	<ul><li>21</li><li>9</li><li>18</li><li>17</li><li>26</li><li>7</li></ul>
	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 M	•		
		min	ms	11
		max	ms	17
UL technical data				
	) for three-phase AC motor			
i dii-load carrent (i LA	) for three-phase AC motor	at 400\/	٨	7.0
		at 480V	Α	7.6
		at 600V	Α	6.1
Yielded mechanical pe	erformance			
	for single-phase AC motor			
	3 1	110/120V	HP	0.5
		230V	HP	1.5
	for three phase AC mater	230 V	111	1.0
	for three-phase AC motor	/		
		200/208V	HP	2
		220/230V	HP	3
		460/480V	HP	5
		575/600V	HP	5
General USE				
Conordi COL	Contactor			
	Contactor	^^	Α.	00
		AC current	A	20
Short-circuit protection	n fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	Α	30
		Fuse class	, ,	
	0. 1.16.16	ruse class		J
	Standard fault	-		
		Short circuit current	kA	5
		Fuse rating	Α	30
Contact rating of auxili	iary contacts according to UL			A600 - Q600
Ambient conditions	,			
Temperature				
remperature	0			
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude		max		3000
			m	3000
Resistance & Protecti	on			
Pollution degree				3
Dimensions				
44 4.4		11 00 6		
4.4 (1.73") (0.17")	57	(1.73") O <sup>M</sup> , (6)	T- (0)	57 ————————————————————————————————————
(0.17")	(2.24")	0 0 0	9 (2.	24)
	(1.97") (2.28")	066	(2.28"	
	(1.97 (2.28 (2.28		9	
	6	(3.71) (3.74) (3.74) (3.74)		
	- 34.9 -	34.9 - 3.2	-	
(0.33") 8.5 (0.38")	(1.37")	(1.37") (0.12"	)	RF9
(0.33")		F.	L	76
8.5		44	_	89.2 (3.51") (0.30")
(0.33")		(1.73")		(3.31)
Wiring diagrams				





#### 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 **BG09** Contact characteristics Nr. 3 Number of poles Rated insulation voltage Ui IEC/EN ٧ 690 k۷ Rated impulse withstand voltage Uimp 6 Operational frequency Нъ 25 min Hz 400 max IEC Conventional free air thermal current Ith 20 Α 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 9 AC-4 (400V) 4 Rated operational power AC-3 (T≤55°C) 2.2 230V kW 400V kW 415V kW 4.3 440V kW 4.5 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 3 Α 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 10





	220V	Α	2
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	16
	48V	Α	16
	75V	Α	10
	110V	Α	10
	220V	Α	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	2201		_
120 max danon to in 200 200 mar ent = 10mb mar 1 poloc in conco	≤24V	Α	7
	48V	A	6
	75V		2
		A	
	110V	A	1
	220V	A	_
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			
<b>'</b>	≤24V	Α	10
	48V	Α	10
	75V	A	6
	110V	A	5
	220V		
IFC many asymptotic in DC2 DC5 with L/D < 45 may with 4 males in agrica	220 V	Α	0,8
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	-0.4V	Δ.	4.0
	≤24V	Α	10
	48V	Α	10
	75V	Α	6
	110V	Α	5
	220V	Α	0,8
Short-time allowable current for 10s (IEC/EN60947-1)		Α	96
Protection fuse			
	gG (IEC)	Α	20
	aM (IEC)	Α	10
Making capacity (RMS value)	,	Α	92
Breaking capacity at voltage			
5 1 m 3 m - m 9	440V	Α	72
	500V	A	72
	690V	A	72
Resistance per pole (average value)	090 v	mΩ	10
		11122	10
Power dissipation per pole (average value)	147	147	4
	Ith	W	4
	AC3	W	0.81
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
	111111		•





		max	Ibin	9
	simultaneously connectable		Nr.	2
Conductor section	***************************************			
	AWG/Kcmil			40
	Florible w/s lug conductor acction	max		12
	Flexible w/o lug conductor section	min	mm²	0.75
		max	mm²	0.75 2.5
	Flexible c/w lug conductor section	IIIax	111111	2.3
	r lexible C/W lug corructor Section	min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section	max		2.0
	Tiombie Marmoulated opade lag contactor cooler	min	mm²	1.5
		max	mm²	2.5
D	t'			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	177
Conductor section				
	AWG/kcmil conductor section			
		ma.		40
		max		12
Auxiliary contact chara	acteristics	max		
Thermal current Ith		max	A	10
Thermal current Ith IEC/EN 60947-5-1 de	signation	max	A	
Thermal current Ith	signation			10 A600 - Q600
Thermal current Ith IEC/EN 60947-5-1 de	signation	230V	A	10 A600 - Q600
Thermal current Ith IEC/EN 60947-5-1 de	signation	230V 400V	A A	10 A600 - Q600 3 1.9
Thermal current Ith 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	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 Operating current DC	signation 15	230V 400V	A A	10 A600 - Q600 3 1.9
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 Operating current DC	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 Operating current DC	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 Operating current DC	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 Operating current DC	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 Operating current DC	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 Operating current DC	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 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 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 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	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  Operating current DC  Mechanical life	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	esignation 15 12 13	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	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	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	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



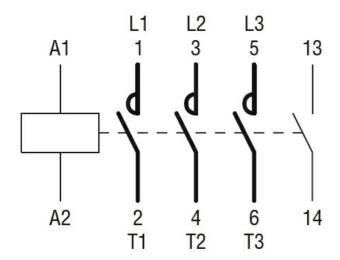


Rated AC voltage at				V	48
AC operating voltage		= 0.1			
	of 50/60Hz coil po				
		pick-up	min	%Us	75
			max	%Us	75 115
		drop-out	max	7003	110
		arop cut	min	%Us	20
			max	%Us	55
	of 50/60Hz coil po	owered at 60Hz			
	·	pick-up			
			min	%Us	80
			max	%Us	115
		drop-out			
			min	%Us	20
			max	%Us	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	<ul><li>21</li><li>9</li><li>18</li></ul>
	in AC	Opening NO	max min max min	ms ms ms	<ul><li>21</li><li>9</li><li>18</li><li>17</li></ul>
	in AC	Opening NO Closing NC	max min max	ms ms ms	<ul><li>21</li><li>9</li><li>18</li></ul>
	in AC	Opening NO	max min max min max	ms ms ms ms	<ul><li>21</li><li>9</li><li>18</li><li>17</li><li>26</li></ul>
	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	<ul><li>21</li><li>9</li><li>18</li><li>17</li><li>26</li></ul>
	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 18 25
		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



### Opening NC

	Opening M	•		
		min	ms	11
		max	ms	17
UL technical data		2.7		
	) for three-phase AC motor			
i dii-load carrent (i LA	) for three-phase AC motor	at 400\/	٨	7.0
		at 480V	Α	7.6
		at 600V	Α	6.1
Yielded mechanical pe	erformance			
	for single-phase AC motor			
	3 1	110/120V	HP	0.5
		230V	HP	1.5
	for three phase AC mater	230 V	111	1.0
	for three-phase AC motor	/		
		200/208V	HP	2
		220/230V	HP	3
		460/480V	HP	5
		575/600V	HP	5
General USE				
Conordi COL	Contactor			
	Contactor	^^	Α.	00
		AC current	A	20
Short-circuit protection	n fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	Α	30
		Fuse class	, ,	
	0. 1.16.16	ruse class		J
	Standard fault	-		
		Short circuit current	kA	5
		Fuse rating	Α	30
Contact rating of auxili	iary contacts according to UL			A600 - Q600
Ambient conditions	,			
Temperature				
remperature	0			
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude		max		3000
			m	3000
Resistance & Protecti	on			
Pollution degree				3
Dimensions				
44 4.4		11 00 6		
4.4 (1.73") (0.17")	57	(1.73") O <sup>M</sup> , (6)	T- (0)	57 ————————————————————————————————————
(0.17")	(2.24")	0 0 0	9 (2.	24)
	(1.97") (2.28")	066	(2.28"	
	(1.97 (2.28 (2.28		9	
	6	(3.71) (3.74) (3.74) (3.74)		
	- 34.9 -	34.9 - 3.2	-	
(0.33") 8.5 (0.38")	(1.37")	(1.37") (0.12"	)	RF9
(0.33")		F.	L	76
8.5		44	_	89.2 (3.51") (0.30")
(0.33")		(1.73")		(3.31)
Wiring diagrams				



#### 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 BG09
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	9
	AC-4 (400V)	Α	4
Rated operational power AC-3 (T≤55°C)			
	230V	kW	2.2
	400V	kW	4
	415V	kW	4.3
	440V	kW	4.5
	500V	kW	5 5
Poted energtional newer AC 1 (T<40°C)	690V	kW	<u> </u>
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	0001		
120 max canoncie in 201 min 2/1 = mio min 1 poloc 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	16
	48V	Α	16
	75V	Α	10
	110V	Α	10
	220V	Α	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	2201		_
120 max danon to in 200 200 mar ent = 10mb mar 1 poloc in conco	≤24V	Α	7
	48V	A	6
	75V		2
		A	
	110V	A	1
	220V	A	_
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			
<b>'</b>	≤24V	Α	10
	48V	Α	10
	75V	A	6
	110V	A	5
	220V		
IFC many asymptotic in DC2 DC5 with L/D < 45 may with 4 males in agrica	220 V	Α	0,8
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	-0.4V	Δ.	4.0
	≤24V	Α	10
	48V	Α	10
	75V	Α	6
	110V	Α	5
	220V	Α	0,8
Short-time allowable current for 10s (IEC/EN60947-1)		Α	96
Protection fuse			
	gG (IEC)	Α	20
	aM (IEC)	Α	10
Making capacity (RMS value)	,	Α	92
Breaking capacity at voltage			
5 1 m 3 m - m 9	440V	Α	72
	500V	A	72
	690V	A	72
Resistance per pole (average value)	090 v	mΩ	10
		11122	10
Power dissipation per pole (average value)	147	147	4
	Ith	W	4
	AC3	W	0.81
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
	111111		•





		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 contactor section	min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section			
		min	mm²	1.5
		max	mm²	2.5
Dawar tarrainal 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	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	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 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	110
AC operating voltage		= 0.1			
	of 50/60Hz coil po				
		pick-up	min	%Us	75
			max	%Us	75 115
		drop-out	max	7003	110
			min	%Us	20
			max	%Us	55
	of 50/60Hz coil po	owered at 60Hz			
		pick-up			
			min	%Us	80
			max	%Us	115
		drop-out		0/11	
			min	%Us	20 55
C average soil con	volumetion at 20°C		max	%Us	55
C average coil con	of 50/60Hz coil po	owered at 50Hz			
	or Joydon iz con po	JWGIGU AL JULIZ	in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil po	owered at 60Hz	9		
	·		in-rush	VA	25
			holding	VA	3
	of 60Hz coil power	ered at 60Hz			
			in-rush	VA	30
			holding	VA	4
Dissipation at holdin				W	0.95
Max cycles frequent				. "	0000
Mechanical operatio Operating times	n			cycles/h	3600
peraung umes					
Warana tima for Lle	control				
verage time for Us					
verage time for Us	control in AC	Closina NO			
verage time for Us		Closing NO	min	ms	12
verage time for Us		Closing NO	min max	ms ms	12 21
verage time for Us		Closing NO Opening NO			
verage time for Us					
verage time for Us		Opening NO	max	ms	21
verage time for Us			max min max	ms ms ms	<ul><li>21</li><li>9</li><li>18</li></ul>
verage time for Us		Opening NO	max min max min	ms ms ms	<ul><li>21</li><li>9</li><li>18</li><li>17</li></ul>
Average time for Us		Opening NO Closing NC	max min max	ms ms ms	<ul><li>21</li><li>9</li><li>18</li></ul>
Average time for Us		Opening NO	max min max min max	ms ms ms ms	<ul><li>21</li><li>9</li><li>18</li><li>17</li><li>26</li></ul>
verage time for Us		Opening NO Closing NC	max min max min max min	ms ms ms ms	<ul><li>21</li><li>9</li><li>18</li><li>17</li><li>26</li><li>7</li></ul>
verage time for Us	in AC	Opening NO Closing NC	max min max min max	ms ms ms ms	<ul><li>21</li><li>9</li><li>18</li><li>17</li><li>26</li></ul>
Average time for Us		Opening NO  Closing NC  Opening NC	max min max min max min	ms ms ms ms	<ul><li>21</li><li>9</li><li>18</li><li>17</li><li>26</li><li>7</li></ul>
Average time for Us	in AC	Opening NO Closing NC	max min max min max min max	ms ms ms ms ms	21 9 18 17 26 7 17
Average time for Us	in AC	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
Average time for Us	in AC	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
Average time for Us	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
Average time for Us	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	21 9 18 17 26 7 17
Average time for Us	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
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



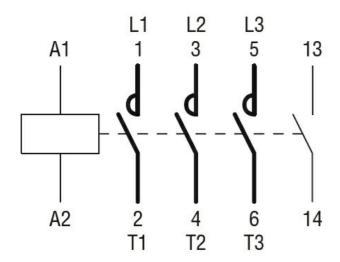


### Opening NC

	Opening M	•		
		min	ms	11
		max	ms	17
UL technical data		2.7		
	) for three-phase AC motor			
i dii-load carrent (i LA	) for three-phase AC motor	at 400\/	٨	7.0
		at 480V	Α	7.6
		at 600V	Α	6.1
Yielded mechanical pe	erformance			
	for single-phase AC motor			
	3 1	110/120V	HP	0.5
		230V	HP	1.5
	for three phase AC mater	230 V	111	1.0
	for three-phase AC motor	/		
		200/208V	HP	2
		220/230V	HP	3
		460/480V	HP	5
		575/600V	HP	5
General USE				
Conordi COL	Contactor			
	Contactor	^^	Α.	00
		AC current	A	20
Short-circuit protection	n fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	Α	30
		Fuse class	, ,	
	0. 1.16.16	ruse class		J
	Standard fault	-		
		Short circuit current	kA	5
		Fuse rating	Α	30
Contact rating of auxili	iary contacts according to UL			A600 - Q600
Ambient conditions	,			
Temperature				
remperature	0			
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude		max		3000
			m	3000
Resistance & Protecti	on			
Pollution degree				3
Dimensions				
44 4.4		11 00 6		
4.4 (1.73") (0.17")	57	(1.73") O <sup>M</sup> , (6)	T- (0)	57 ————————————————————————————————————
(0.17")	(2.24")	0 0 0	9 (2.	24)
	(1.97") (2.28")	066	(2.28"	
	(1.97 (2.28 (2.28		9	
	6	(3.71) (3.74) (3.74) (3.74)		
	- 34.9 -	34.9 - 3.2	-	
(0.33") 8.5 (0.38")	(1.37")	(1.37") (0.12"	)	RF9
(0.33")		F.	L	76
8.5		44	_	89.2 (3.51") (0.30")
(0.33")		(1.73")		(3.31)
Wiring diagrams				

**ENERGY AND AUTOMATION** 

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, 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			Power contactor BG09
Product type designation  Contact characteristics			БСОЭ
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency		IX V	
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	Пах	A	20
Operational current le			
operational current to	AC-1 (≤40°C)	Α	20
	AC-1 (≤55°C)	Α	18
	AC-1 (≤70°C)	Α	15
	AC-3 (≤440V ≤55°C)	Α	9
	AC-4 (400V)	Α	4
Rated operational power AC-3 (T≤55°C)	7.6 1 (1001)		
Traise sporalisma power 718 8 (1-50 8)	230V	kW	2.2
	400V	kW	4
	415V	kW	4.3
	440V	kW	4.5
	500V	kW	5
	690V	kW	5
Rated operational power AC-1 (T≤40°C)			
1 1 - ( /	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	16
	48V	Α	16
	75V	Α	10
	110V	Α	10
	220V	Α	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	2201		_
120 max danon to in 200 200 mar ent = 10mb mar 1 poloc in conco	≤24V	Α	7
	48V	A	6
	75V		2
		A	
	110V	A	1
	220V	A	_
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			
<b>'</b>	≤24V	Α	10
	48V	Α	10
	75V	A	6
	110V	A	5
	220V		
IFC many asymptotic in DC2 DC5 with L/D < 45 may with 4 males in agrica	220 V	Α	0,8
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	-0.4V	Δ.	4.0
	≤24V	Α	10
	48V	Α	10
	75V	Α	6
	110V	Α	5
	220V	Α	0,8
Short-time allowable current for 10s (IEC/EN60947-1)		Α	96
Protection fuse			
	gG (IEC)	Α	20
	aM (IEC)	Α	10
Making capacity (RMS value)	,	Α	92
Breaking capacity at voltage			
5 1 m 3 m - m 9	440V	Α	72
	500V	A	72
	690V	A	72
Resistance per pole (average value)	090 v	mΩ	10
		11122	10
Power dissipation per pole (average value)	147	147	4
	Ith	W	4
	AC3	W	0.81
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
	111111		•





		max	lbin	9
	simultaneously connectable		Nr.	2
Conductor section	N. 10 11 11 11 11 11 11 11 11 11 11 11 11			
	AWG/Kcmil			4.0
	Florible w/s has possible as ation	max		12
	Flexible w/o lug conductor section	min	mama <sup>2</sup>	0.75
		min	mm² mm²	0.75 2.5
	Flexible c/w lug conductor section	max	111111	2.0
	r lexible c/w lug corludator section	min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section			2.0
	Tionible with inculated opade rag conductor coolien	min	mm²	1.5
		max	mm²	2.5
				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	182
Conductor section				
	AWG/kcmil conductor section			
				10
		max		12
Auxiliary contact chara	acteristics	max		
Thermal current Ith		max	A	10
Thermal current Ith IEC/EN 60947-5-1 de	esignation	max	A	
Thermal current Ith	esignation			10 A600 - Q600
Thermal current Ith IEC/EN 60947-5-1 de	esignation	230V	A	10 A600 - Q600
Thermal current Ith IEC/EN 60947-5-1 de	esignation	230V 400V	A A	10 A600 - Q600 3 1.9
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC	esignation 15	230V	A	10 A600 - Q600
Thermal current Ith IEC/EN 60947-5-1 de	esignation 15	230V 400V 500V	A A A	10 A600 - Q600 3 1.9 1.4
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15	230V 400V	A A	10 A600 - Q600 3 1.9
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC	esignation 15	230V 400V 500V	A A A	10 A600 - Q600 3 1.9 1.4
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15	230V 400V 500V 110V	A A A	10 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	230V 400V 500V 110V 24V 48V	A A A A	10 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	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 Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 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 Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 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 Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 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 Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 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 Operating current DC	esignation 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 Operating current DC Operating current DC	esignation 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 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	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	esignation 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	esignation 15 12 13	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	esignation 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 Electrical life Safety related data Performance level B1	esignation 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 Electrical life Safety related data Performance level B1	esignation  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				V	230
AC operating voltage					
	of 50/60Hz coil p				
		pick-up	min	%Us	75
			max	%Us	115
		drop-out	Пах	7000	110
		3. Sp. 53.1	min	%Us	20
			max	%Us	55
	of 50/60Hz coil p	owered at 60Hz			
		pick-up			
			min	%Us	80
			max	%Us	115
		drop-out		0/11	
			min	%Us	20 55
C average soil can	oumption at 20°C		max	%Us	55
C average coil con	of 50/60Hz coil p	owered at 50Hz			
	οι σο/σοι τε σοιι ρ	owered at JUHZ	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 power	ered at 60Hz			
			in-rush	VA	30
			holding	VA	4
Dissipation at holdin				W	0.95
Max cycles frequenc				. "	0000
Mechanical operation	n			cycles/h	3600
Operating times  Average time for Us	control				
werage unie ioi os	in AC				
	111710	01 : 110			
		Closing NO			
		Closing NO	min	ms	12
		Closing NO	min max	ms ms	12 21
		Closing NO Opening NO			
					9
		Opening NO	max	ms	21
			max min max	ms ms ms	<ul><li>21</li><li>9</li><li>18</li></ul>
		Opening NO	max min max min	ms ms ms	<ul><li>21</li><li>9</li><li>18</li><li>17</li></ul>
		Opening NO Closing NC	max min max	ms ms ms	<ul><li>21</li><li>9</li><li>18</li></ul>
		Opening NO	max min max min max	ms ms ms ms	<ul><li>21</li><li>9</li><li>18</li><li>17</li><li>26</li></ul>
		Opening NO Closing NC	max min max min max min	ms ms ms ms	<ul><li>21</li><li>9</li><li>18</li><li>17</li><li>26</li><li>7</li></ul>
	in DC:	Opening NO Closing NC	max min max min max	ms ms ms ms	<ul><li>21</li><li>9</li><li>18</li><li>17</li><li>26</li></ul>
	in DC	Opening NO Closing NC Opening NC	max min max min max min	ms ms ms ms	<ul><li>21</li><li>9</li><li>18</li><li>17</li><li>26</li><li>7</li></ul>
	in DC	Opening NO Closing NC	max min max min max min max	ms ms ms ms ms	21 9 18 17 26 7 17
	in DC	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
	in DC	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
	in DC	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
	in DC	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
	in DC	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 DC	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

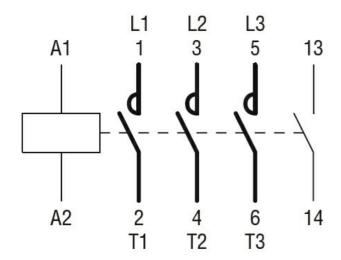


### Opening NC

	Opening	NC		
		min	ms	11
		max	ms	17
		Шах	1115	17
UL technical data				
Full-load current (FLA	) for three-phase AC motor			
	,, p	at 480V	٨	7.6
			Α	7.6
		at 600V	Α	6.1
Yielded mechanical p	erformance			<u> </u>
	for single-phase AC motor			
		110/120V	HP	0.5
		230V	HP	1.5
	for these above AO mater	2001	• • • •	1.0
	for three-phase AC motor			
		200/208V	HP	2
		220/230V	HP	3
		460/480V	HP	5
		575/600V	HP	5
General USE				
20110101 00L	Contactor			
	Contactor			
		AC current	Α	20
Short-circuit protection	n fuse 600V			
eriori eriodii proteetie				
	High fault			
		Short circuit current	kΑ	100
		Fuse rating	Α	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	30
Contact rating of auxil	iary contacts according to UL			A600 - Q600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protecti	ion			
	<del></del>			2
Pollution degree				3
Dimensions				
44 44				
(1.73") 4.4 (0.17")	57	(1.73") (9.6°)	-	57 ———
(0.17")	(2.24")	(1.73)	(2	57
4	(2.24)		37	
			0	
	(1.97") - 58 - 58 (2.28")	1.97	(2.28")	
	(1.97 (2.28		0	
<b>***</b>	l d		6	
ф <u>в</u> в ф	2 <del>g.</del> Li			
(0.33")	34.9 (1.37")	(1.37") 3.2 (0.12"	) -	RF9
	(1.37)	(0.12	,	
(0.33")			-	7.6
8.5		44	_	89.2 (3.51") (0.30")
(0.33")		(1.73")		(0.01)
Wiring diagrams				

**ENERGY AND AUTOMATION** 

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 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 designation Product type designation			Power contactor BG09
Contact characteristics			2000
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	9
	AC-4 (400V)	Α	4
Rated operational power AC-3 (T≤55°C)			
	230V	kW	2.2
	400V	kW	4
	415V	kW	4.3
	440V	kW	4.5
	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	A	-
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	16
	48V	Α	16
	75V	Α	10
	110V	A	10
	220V	Α	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	220 V		
TEC max current le in DC3-DC3 with L/K \( \) Toms with 1 poles in series	<b>2041</b> /	۸	7
	≤24V	A	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			
	≤24V	Α	8
	48V	Α	8
	75V	Α	5
	110V	A	4
	220V	A	<del>-</del>
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	22U V		
TEO MAX CUITERLIE III DOS-DOS WILLI L/R ≥ TOMS WILL 3 POIES IN SERIES	-04V	^	40
	≤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	10
	48V	Α	10
	75V	Α	6
	110V	A	5
	220V	A	0,8
Chart time allowable assurant for 40s (IEC/ENCO047.4)	220 V		
Short-time allowable current for 10s (IEC/EN60947-1)		A	96
Protection fuse	- (I-a)	_	
	gG (IEC)	Α	20
	aM (IEC)	Α	10
Making capacity (RMS value)		Α	92
Breaking capacity at voltage			
	440V	Α	72
	500V	Α	72
	690V	Α	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)		11122	10
r uwei uissipatiun pei puie (average value)	I til-	14/	4
	Ith	W	4
	AC3	W	0.81
Tightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	lbin	9
Tightening torque for coil terminal			
9 <del>9</del> <del>1</del>	min	Nm	0.8
	max	Nm	1
	min	lbin	9





		max	Ibin	9
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		12
	Flexible w/o lug conductor section		2	
		min	mm²	0.75
	Fig. 21 / . L L. da	max	mm²	2.5
	Flexible c/w lug conductor section	min	mama <sup>2</sup>	1 E
		min	mm² mm²	1.5 2.5
	Flexible with insulated spade lug conductor section	max	111111	2.0
	Flexible with insulated space lug conductor section	min	mm²	1.5
		max	mm²	2.5
		IIIax	111111	IP20 when
Power terminal proted	ction according to IEC/EN 60529			properly wired
Mechanical features				,
Operating position				
. 5.		normal		Vertical plan
		allowable		±30°
Eivina				Screw / DIN rail
Fixing				35mm
Weight			g	177
Conductor section				
	AWG/kcmil conductor section			
		max		12
	acteristics			
Thermal current Ith			A	10
Thermal current Ith EC/EN 60947-5-1 de	esignation		A	10 A600 - Q600
Thermal current Ith IEC/EN 60947-5-1 de	esignation		A	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
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC	esignation 15	400V 500V	A A A	A600 - Q600 3 1.9 1.4
Thermal current lth IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15	400V	A A	A600 - Q600 3 1.9
Thermal current lth IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15	400V 500V	A A A	A600 - Q600 3 1.9 1.4 2.9
Thermal current lth 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 lth 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 lth 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 lth 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
Auxiliary contact chara- Thermal current lth 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	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 lth 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 lth 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	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 lth 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 lth IEC/EN 60947-5-1 de Operating current AC Operating current DC 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 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 lth IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC  Operating current DC  Electrical life	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 lth 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 lth 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	esignation 15	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 lth 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	esignation 15 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 lth 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 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
Thermal current lth 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 15 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





	: 50/60Hz			V	400
C operating voltage					
	of 50/60Hz coil pov	pick-up			
		ρισκ-αρ	min	%Us	75
			max	%Us	115
		drop-out			
			min	%Us	20
			max	%Us	55
	of 50/60Hz coil pov				
		pick-up		0/11	
			min	%Us	80
		drop out	max	%Us	115
		drop-out	min	%Us	20
			max	%Us	55
C average coil con	sumption at 20°C		- Indx	7000	
	of 50/60Hz coil pov	wered at 50Hz			
	=		in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil pov	wered at 60Hz			
			in-rush	VA	25
			holding	VA	3
	of 60Hz coil power	ed at 60Hz			
			in-rush	VA	30
Ni - i 4i 4     -   -	<00°C FOLI-		holding	VA	4
Dissipation at holdin  Max cycles frequence				W	0.95
Mechanical operation				cycles/h	3600
Operating times				Cyclc3/11	3000
verage time for Us	control				
J	in AC				
		Closing NO			
			min	ms	12
			min max	ms ms	12 21
		Opening NO	max	ms	21
		Opening NO	max min	ms ms	9
			max	ms	21
		Opening NO Closing NC	max min max	ms ms ms	<ul><li>21</li><li>9</li><li>18</li></ul>
			max min max min	ms ms ms	<ul><li>21</li><li>9</li><li>18</li><li>17</li></ul>
		Closing NC	max min max	ms ms ms	<ul><li>21</li><li>9</li><li>18</li></ul>
			max min max min max	ms ms ms ms	<ul><li>21</li><li>9</li><li>18</li><li>17</li><li>26</li></ul>
		Closing NC	max min max min max min	ms ms ms ms	<ul><li>21</li><li>9</li><li>18</li><li>17</li><li>26</li><li>7</li></ul>
	in DC	Closing NC	max min max min max	ms ms ms ms	<ul><li>21</li><li>9</li><li>18</li><li>17</li><li>26</li></ul>
	in DC	Closing NC	max min max min max min	ms ms ms ms	<ul><li>21</li><li>9</li><li>18</li><li>17</li><li>26</li><li>7</li></ul>
	in DC	Closing NC Opening NC	max min max min max min	ms ms ms ms	21 9 18 17 26 7 17
	in DC	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
	in DC	Closing NC Opening NC	max min max min max min max min max	ms ms ms ms ms ms ms	21 9 18 17 26 7 17
	in DC	Closing NC Opening NC Closing NO	max min 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 18 25
	in DC	Closing NC Opening NC Closing NO Opening 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
	in DC	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 18 25 2 3
	in DC	Closing NC Opening NC Closing NO Opening NO	max min 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 18 25

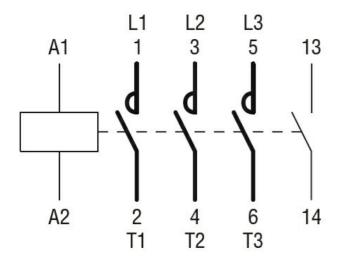




### Opening NC

	Opening M	•		
		min	ms	11
		max	ms	17
UL technical data		2.7		
	) for three-phase AC motor			
i dii-load carrent (i LA	) for three-phase AC motor	at 400\/	٨	7.0
		at 480V	Α	7.6
		at 600V	Α	6.1
Yielded mechanical pe	erformance			
	for single-phase AC motor			
	3 1	110/120V	HP	0.5
		230V	HP	1.5
	for three phase AC mater	230 V	111	1.0
	for three-phase AC motor	/		
		200/208V	HP	2
		220/230V	HP	3
		460/480V	HP	5
		575/600V	HP	5
General USE				
Conordi COL	Contactor			
	Contactor	^^	Α.	00
		AC current	A	20
Short-circuit protection	n fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	Α	30
		Fuse class	, ,	
	0. 1.16.16	ruse class		J
	Standard fault	-		
		Short circuit current	kA	5
		Fuse rating	Α	30
Contact rating of auxili	iary contacts according to UL			A600 - Q600
Ambient conditions	,			
Temperature				
remperature	0			
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude		max		3000
			m	3000
Resistance & Protecti	on			
Pollution degree				3
Dimensions				
44 4.4		11 00 6		
4.4 (1.73") (0.17")	57	(1.73") O <sup>M</sup> , (6)	T- (0)	57 ————————————————————————————————————
(0.17")	(2.24")	0 0 0	2 (2.	24)
	(1.97") (2.28")	066	(2.28"	
	(1.97 (2.28 (2.28		9	
	6	(3.71) (3.74) (3.74) (3.74)		
	- 34.9 -	34.9 - 3.2	-	
(0.33") 8.5 (0.38")	(1.37")	(1.37") (0.12"	)	RF9
(0.33")		F.	L	76
8.5		44	_	89.2 (3.51") (0.30")
(0.33")		(1.73")		(3.31)
Wiring diagrams				





#### 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 **BG09** Contact characteristics Nr. 3 Number of poles Rated insulation voltage Ui IEC/EN ٧ 690 k۷ Rated impulse withstand voltage Uimp 6 Operational frequency Нъ 25 min Hz 400 max IEC Conventional free air thermal current Ith 20 Α 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 9 AC-4 (400V) 4 Rated operational power AC-3 (T≤55°C) 2.2 kW 230V 400V kW 415V kW 4.3 440V kW 4.5 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 3 Α 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 10



	220V	Α	2
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
·	≤24V	Α	16
	48V	Α	16
	75V	Α	10
	110V	Α	10
	220V	A	2
IFO	220 V	A	
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			
· ·	≤24V	Α	8
	48V	Α	8
	75V	Α	5
	110V	A	4
150	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	10
	48V	Α	10
	75V		
		A	6
	110V	A	5
	220V	Α	0,8
Short-time allowable current for 10s (IEC/EN60947-1)		Α	96
Protection fuse			
	gG (IEC)	Α	20
	aM (IEC)	Α	10
Making capacity (RMS value)	,	Α	92
Breaking capacity at voltage			
	440V	Α	72
	500V	A	72 72
	690V	A	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	Ith	W	4
	AC3	W	0.81
Tightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	lbin	9
Tightoning torque for coil terminal	Шах	ווטו	<u> </u>
Tightening torque for coil terminal		<b>N</b> I .	0.0
	min	Nm	0.8
	max	Nm	1
	min	lbin	9



		max	Ibin	9
	simultaneously connectable		Nr.	2
Conductor section	AMO#4 :1			
	AWG/Kcmil			4.0
	Florible w/s live an diretor anotice	max		12
	Flexible w/o lug conductor section	min	mama <sup>2</sup>	0.75
		min	mm² mm²	0.75 2.5
	Flexible c/w lug conductor section	max	111111	2.0
	r lexible c/w lug corrudctor section	min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section	max	111111	2.0
	r lexible with insulated space by conductor section	min	mm²	1.5
		max	mm²	2.5
		max		IP20 when
Power terminal protect	ction according to IEC/EN 60529			properly wired
Mechanical features				, , ,
Operating position				
		normal		Vertical plan
		allowable		±30°
Finding:				Screw / DIN rail
Fixing				35mm
Weight			g	179
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact chara	acteristics			
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	•			A600 - Q600
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			
Operating current DC	13	24V	А	2.9
Operating current DC	13	24V 48V	A A	2.9 1.4
Operating current DC	13	24V 48V 60V	A A A	2.9 1.4 1.2
Operating current DC	13	24V 48V 60V 110V	A A A	2.9 1.4 1.2 0.6
Operating current DC	13	24V 48V 60V 110V 125V	A A A A	2.9 1.4 1.2 0.6 0.55
Operating current DC	13	24V 48V 60V 110V 125V 220V	A A A A	2.9 1.4 1.2 0.6 0.55 0.3
	13	24V 48V 60V 110V 125V	A A A A	2.9 1.4 1.2 0.6 0.55
Operations	13	24V 48V 60V 110V 125V 220V	A A A A A	2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operations Mechanical life	13	24V 48V 60V 110V 125V 220V	A A A A A A cycles	2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operations Mechanical life Electrical life	13	24V 48V 60V 110V 125V 220V	A A A A A	2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operations Mechanical life Electrical life Safety related data		24V 48V 60V 110V 125V 220V	A A A A A A cycles	2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operations Mechanical life Electrical life Safety related data	0d according to EN/ISO 13489-1	24V 48V 60V 110V 125V 220V 600V	A A A A A A cycles	2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Operations Mechanical life Electrical life Safety related data	0d according to EN/ISO 13489-1	24V 48V 60V 110V 125V 220V 600V	A A A A A A Cycles cycles	2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Operations Mechanical life Electrical life Safety related data Performance level B1	0d according to EN/ISO 13489-1	24V 48V 60V 110V 125V 220V 600V	A A A A A A cycles	2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Operations Mechanical life Electrical life Safety related data Performance level B1	0d according to EN/ISO 13489-1	24V 48V 60V 110V 125V 220V 600V	A A A A A A Cycles cycles	2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000



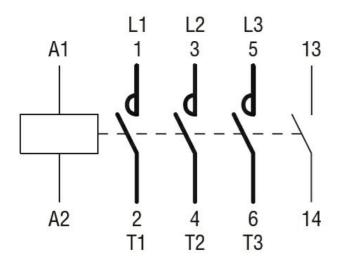


Rated AC voltage at 60	OHz			V	24
AC operating voltage					
	of 60Hz coil powered				
		pick-up	min	0/116	75
			min	%Us %Us	75
		drop-out	max	%US	115
		drop-out	min	%Us	20
			max	%Us	55
AC average coil consu	ımption at 20°C		max	7000	
rto avorago con corioa	of 50/60Hz coil powe	red at 50Hz			
	01 00/001 12 0011 powe	100 01 001 12	in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil powe	red at 60Hz	9		
	o. oo, oo oo poo	.00 01 00 12	in-rush	VA	25
			holding	VA	3
	of 60Hz coil powered	at 60Hz	<u> </u>		
	1		in-rush	VA	30
			holding	VA	4
Dissipation at holding :	≤20°C 50Hz			W	0.95
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
			max	ms	18
		Closing NC			
			min	ms	17
			max	ms	26
		Opening NC			_
			min	ms	7
	in DC		max	ms	17
	in DC	Clasing NO			
		Closing NO	ma:-	ma	10
			min	ms ms	18 25
		Opening NO	max	ms	20
		Opening NO	min	ms	2
			max	ms	3
		Closing NC	max	1110	-
		g	min	ms	3
			max	ms	5
		Opening NC			
		1 0 -	min	ms	11
			max	ms	17
UL technical data					
	for three-phase AC mo	otor			
,	•		at 480V	Α	7.6
			at 600V	Α	6.1

Yielded mechanical	performance			
	for single-phase AC motor			
		110/120V	HP	0.5
		230V	HP	1.5
	for three-phase AC motor	200 V		1.0
	for three-phase AC motor	000/000/		•
		200/208V	HP	2
		220/230V	HP	3
		460/480V	HP	5
		575/600V	HP	5
General USE				
	Contactor			
	Contactor	AC current	Α	20
Ob ant aire vit musta sti	on five 000V	AC current		20
Short-circuit protecti				
	High fault			
		Short circuit current	kA	100
		Fuse rating	Α	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	A	30
	ilian a sata sta a sanalina ta 1 II	i use rating		
	kiliary contacts according to UL			A600 - Q600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
	Clorage temperature	min	°C	-60
			°C	
		max	<u> </u>	+80
Max altitude			m	3000
Resistance & Protec	ction			
Pollution degree				3
Dimensions				
4.4 (0.17") (0.17") (0.17") (0.17") (0.18") (0.38") (0.38")	(2.24")	44 (1.73") (1.73") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37")	(2.28") 5	57 .24") RF9
(0.33") 8.5 (0.33") Wiring diagrams		(1.73")		89.2 (3.51") -7.6 (0.30"

**ENERGY AND AUTOMATION** 

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, 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

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EC000066 -Power contactor, AC switching







Product designation Power contactor Product type designation **BG09** Contact characteristics Nr. 3 Number of poles Rated insulation voltage Ui IEC/EN ٧ 690 k۷ Rated impulse withstand voltage Uimp 6 Operational frequency Нъ 25 min Hz 400 max IEC Conventional free air thermal current Ith 20 Α 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 9 AC-4 (400V) 4 Rated operational power AC-3 (T≤55°C) 2.2 kW 230V 400V kW 415V kW 4.3 440V kW 4.5 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 3 Α 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 10





	220V	Α	2
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
·	≤24V	Α	16
	48V	Α	16
	75V	Α	10
	110V	A	10
	220V	A	2
IFO	220 V	A	
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			
· ·	≤24V	Α	8
	48V	Α	8
	75V	A	5
	110V	A	4
150	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	10
	48V	A	10
	75V		
		A	6
	110V	A	5
	220V	Α	0,8
Short-time allowable current for 10s (IEC/EN60947-1)		Α	96
Protection fuse			
	gG (IEC)	Α	20
	aM (IEC)	Α	10
Making capacity (RMS value)	,	Α	92
Breaking capacity at voltage			
	440V	Α	72
	500V	A	72 72
	690V	A	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	Ith	W	4
	AC3	W	0.81
Tightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	lbin	9
Tightoning torque for coil terminal	Шах	ווטו	<u> </u>
Tightening torque for coil terminal		<b>N</b> I .	0.0
	min	Nm	0.8
	max	Nm	1
	min	lbin	9



		max	lbin	9
Max number of wires	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		12
	Flexible w/o lug conductor section			
		min	mm²	0.75
		max	mm²	2.5
	Flexible c/w lug conductor section	_		
		min	mm²	1.5
	=	max	mm²	2.5
	Flexible with insulated spade lug conductor section		2	
		min	mm²	1.5
		max	mm²	2.5
Power terminal prote	ection according to IEC/EN 60529			IP20 when
Mechanical features				properly wired
Operating position				
applicating poolition		normal		Vertical plan
		allowable		±30°
Finds a				Screw / DIN rail
Fixing				35mm
Weight			g	177
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact char	racteristics			
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	<u> </u>			A600 - Q600
Operating current AC	215			
		230V	Α	3
		400V	Α	1.9
		500V	Α	1.4
Operating current DC	)12			
· -		110V	А	2.9
· -		110V		
· -		110V 24V	Α	2.9
· -		110V 24V 48V	A A	2.9 1.4
· -		110V 24V 48V 60V	A A A	2.9 1.4 1.2
· -		110V 24V 48V 60V 110V	A A A	2.9 1.4 1.2 0.6
· -		110V 24V 48V 60V 110V 125V	A A A A	2.9 1.4 1.2 0.6 0.55
· -		110V 24V 48V 60V 110V 125V 220V	A A A A	2.9 1.4 1.2 0.6 0.55 0.3
Operating current DC		110V 24V 48V 60V 110V 125V	A A A A	2.9 1.4 1.2 0.6 0.55
Operating current DC		110V 24V 48V 60V 110V 125V 220V	A A A A A	2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current DC  Operations  Mechanical life		110V 24V 48V 60V 110V 125V 220V	A A A A A A	2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current DC  Operations  Mechanical life  Electrical life		110V 24V 48V 60V 110V 125V 220V	A A A A A	2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current DC  Operations  Mechanical life  Electrical life  Safety related data	213	110V 24V 48V 60V 110V 125V 220V	A A A A A A	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		110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A cycles	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	10d according to EN/ISO 13489-1	110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A Cycles cycles	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	110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A cycles	2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
	10d according to EN/ISO 13489-1	110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A Cycles cycles	2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000





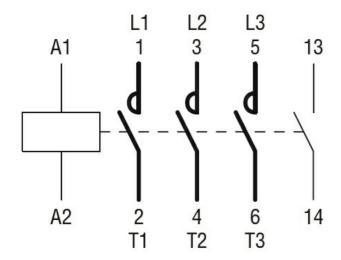
Rated AC voltage at 60	0Hz			V	48
AC operating voltage					
	of 60Hz coil power				
		pick-up		0/11-	7.5
			min	%Us	75
		drop-out	max	%Us	115
		diop-out	min	%Us	20
			max	%Us	55
AC average coil consu	ımption at 20°C			,,,,,	
J	of 50/60Hz coil po	owered at 50Hz			
	·		in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil po	owered at 60Hz			
			in-rush	VA	25
			holding	VA	3
	of 60Hz coil power	ered at 60Hz		1.44	
			in-rush	VA	30
Dissipation at Isolation	<00°C FOLI-		holding	VA	4
Dissipation at holding : Max cycles frequency	≥∠U¹U 5UHZ			W	0.95
Mechanical operation				cycles/h	3600
Operating times				oyoles/11	3000
Average time for Us co	ontrol				
	in AC				
		Closing NO			
		· ·	min	ms	12
			max	ms	21
		Opening NO			
			min	ms	9
			max	ms	18
		Closing NC			4-7
			min	ms	17
		Opening NC	max	ms	26
		Opening NC	min	ms	7
			max	ms	17
	in DC		παλ	1110	
	<del>-</del>	Closing NO			
		<b>5</b> -	min	ms	18
				ms	25
			max	1113	
		Opening NO	max	1113	
		Opening NO	min	ms	2
					2 3
		Opening NO Closing NC	min max	ms ms	3
			min max min	ms ms	3
		Closing NC	min max	ms ms	3
			min max min max	ms ms ms	3 3 5
		Closing NC	min max min max min	ms ms ms ms	<ul><li>3</li><li>5</li><li>11</li></ul>
II technical data		Closing NC	min max min max	ms ms ms	3 3 5
	for three-phase AC	Closing NC Opening NC	min max min max min	ms ms ms ms	<ul><li>3</li><li>5</li><li>11</li></ul>
<mark>JL technical data</mark> Full-load current (FLA)	o for three-phase A0	Closing NC Opening NC	min max min max min	ms ms ms ms	<ul><li>3</li><li>5</li><li>11</li></ul>



Contactor  High fault  Short circuit current KA 100 Fuse rating A 30 Fuse class J  Standard fault  Short circuit current KA 5 Fuse class J  Standard fault  Short circuit current Fuse rating A 30 Fuse class J  Contact rating of auxiliary contacts according to UL A600 - Q600 mbient conditions  Emperature  Operating temperature  Operating temperature  Storage temperature  Min °C -50 max °C +70 Storage temperature  Min °C -60 max °C +80 max °C max °C +80 max °C	Vialdad				
110/120V	Y leided mechanical pe				
230V HP 1.5		tor single-phase AC motor			0.5
for three-phase AC motor  200/208V HP 3 460/480V HP 5 575/600V HP 5  Seneral USE  Contactor  AC current A 20  short-circuit protection fuse, 600V High fault  Short circuit current KA 100 Fuse rating A 30 Fuse class J  Standard fault  Short circuit current KA 5 Fuse rating A 30  contact rating of auxiliary contacts according to UL  mblent conditions emperature  Operating temperature  Operating temperature  Thin *C -50 max *C +70  Storage temperature  min *C -60 max *C +80  fax altitude min *C -60 max *C +80 max *C +80  fax altitude min *C -60 max *C +80 max *C +80  fax altitude min *C -60 max *C +80					
200/208V   HP   2   220/230V   HP   3   480/480V   HP   5   575/600V   HP   5			230V	HP	1.5
220/230V		for three-phase AC motor			
A60/480V			200/208V	HP	2
Seneral USE   Contactor   AC current   A   20			220/230V	HP	3
Contactor  AC current A 20  Short-circuit protection fuse, 600V High fault  Short circuit current Fuse rating A 30 Fuse class J  Standard fault  Short circuit current KA 100 Fuse rating A 30 Fuse class J  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary and a 30  A600 - Q600  Indient conditions  Contact rating of auxiliary and a 30  A600 - Q600  Indient conditions  Contact rating of auxiliary and a 30  A600 - Q600  Indient conditions  Contact rating of auxiliary and a 30  A600 - Q600  Indient conditions  Contact rating of auxiliary and a 30  A600 - Q600  Indient conditions  Contact rating of auxiliary and a 30  Indient conditions  Contact rating of auxiliary and a 30  Indient conditions  Contact rating of auxiliary and a 30  Indient conditions  Contact rating of auxiliary and a 30  Indient conditions  Contact ratin			460/480V	HP	5
Contactor  High fault  Short circuit current KA 100 Fuse rating A 30 Fuse class J  Standard fault  Short circuit current KA 5 Fuse class J  Standard fault  Short circuit current Fuse rating A 30 Fuse class J  Contact rating of auxiliary contacts according to UL A600 - Q600 mbient conditions  Emperature  Operating temperature  Operating temperature  Storage temperature  Min °C -50 max °C +70 Storage temperature  Min °C -60 max °C +80 max °C max °C +80 max °C			575/600V	HP	5
AC current A 20  whort-circuit protection fuse, 600V High fault  Short circuit current KA 100 Fuse rating A 30 Fuse class J  Standard fault  Short circuit current KA 5 Fuse rating A 30 Fuse rating of auxiliary contacts according to UL  mbient conditions  emperature  Operating temperature  Min °C -50 max °C +70  Storage temperature  min °C -60 max °C +80  Max altitude  max °C +80  Max altitude  Storage temperature  Max altitude  Max	General USE				
AC current A 20  whort-circuit protection fuse, 600V High fault  Short circuit current KA 100 Fuse rating A 30 Fuse class J  Standard fault  Short circuit current KA 5 Fuse rating A 30 Fuse rating of auxiliary contacts according to UL  mbient conditions  emperature  Operating temperature  Min °C -50 max °C +70  Storage temperature  min °C -60 max °C +80  Max altitude  max °C +80  Max altitude  Storage temperature  Max altitude  Max		Contactor			
Short-circuit protection fuse, 600V High fault  Short circuit current kA 100 Fuse rating A 30 Fuse class J  Standard fault  Short circuit current kA 5 Fuse rating A 30  Contact rating of auxiliary contacts according to UL Imbient conditions  emperature  Operating temperature  Operating temperature  Min °C -50 max °C +70  Storage temperature  Max altitude  m 3000  desistance & Protection  Fuse rating A 30  A600 - Q600  Max altitude  min °C -60 max °C +80  Max altitude  m 3000  desistance & Protection  Fuse rating A 30  A600 - Q600  A			AC current	Α	20
High fault  Short circuit current KA 100 Fuse rating A 30 Fuse class J  Standard fault  Short circuit current KA 5 Fuse rating A 30 Fuse ratin	Short-circuit protection	n fuse 600V	,		
Short circuit current kA 100 Fuse rating A 30 Fuse class J  Standard fault  Short circuit current kA 5 Fuse rating A 30 Fuse class J  Standard fault  Short circuit current kA 5 Fuse rating A 30  Contact rating of auxiliary contacts according to UL Imbient conditions  Emperature  Operating temperature  Operating temperature  Min °C -50 max °C +70  Storage temperature  min °C -60 max °C +80  Axa altitude  Exercise Protection  Follution degree  Total Contact rating of auxiliary contacts according to UL Imbient conditions  The protection of the prote	Short direatt protection				
Standard fault  Short circuit current kA 5 Fuse rating A 30 Fuse rating A 30 Fuse class J  Standard fault  Short circuit current kA 5 Fuse rating A 30 Fuse rat		i ligit lault	Short circuit current	L۸	100
Standard fault  Short circuit current kA 5 Fuse rating A 30  Contact rating of auxiliary contacts according to UL mblent conditions  remperature  Operating temperature  Min °C -50 max °C +70  Storage temperature  Max altitude min °C -60 max °C +80  Max altitude min °C -60  Max of the conditions of t					
Standard fault  Short circuit current Fuse rating A 30  Contact rating of auxiliary contacts according to UL Machine Indicate Ind			<del>_</del>	A	
Short circuit current KA 5 Fuse rating A 30  contact rating of auxiliary contacts according to UL mbient conditions  remperature  Operating temperature  Min °C -50 max °C +70  Storage temperature  min °C -60 max °C +80  As altitude max °C +80  As altitude max °C +80  Cesistance & Protection  rollution degree 3  Signature  Operating temperature  Min °C -60 max °C +80  As altitude max °C -80  Cesistance & Protection  rollution degree 3  Operating temperature		01	Fuse class		J
Contact rating of auxiliary contacts according to UL mbient conditions  emperature  Operating temperature  Min °C -50 max °C +70  Storage temperature  Min °C -60 max °C +80  As altitude  Max altitude  Collution degree  Soliution		Standard fault			_
Contact rating of auxiliary contacts according to UL  Imbient conditions  Temperature  Operating temperature  Operating temperature  Imin °C -50 Imax °C +70  Storage temperature  Imin °C -60 Imax °C +80  Imax °C +					
Operating temperature  Operating temperature  min °C -50 max °C +70  Storage temperature  min °C -60 max °C +80  At a altitude  min °C -60 max °C +80  At a lititude  cesistance & Protection  collution degree  3  Output  Ou			Fuse rating	A	
Operating temperature    Min		ary contacts according to UL			A600 - Q600
Operating temperature  min °C -50 max °C +70  Storage temperature  min °C -60 max °C +80  Ax altitude m 3000  Resistance & Protection  collution degree  3  Dimensions  144 173 1017 1017 1017 1017 1017 1017 1017					
min °C -50 max °C +70     Storage temperature   min °C -60 max °C +80     Max altitude   m 3000     Cesistance & Protection     Collution degree   3     College   3     Co	Temperature				
Max o C +70     Storage temperature   min o C -60     max o C +80     Max altitude   m 3000     Cesistance & Protection     Collution degree   3     Collution degree		Operating temperature			
Storage temperature    min			min	°C	-50
min °C -60 max °C +80  Max altitude m 3000  Resistance & Protection  Pollution degree 3  Simensions  144  0.17  0.17  0.33  0.34  0.35  0.			max	°C	+70
min °C -60 max °C +80  Max altitude m 3000  Resistance & Protection  Pollution degree 3  Simensions  144  0.17  0.17  0.33  0.34  0.35  0.		Storage temperature			
Max altitude m 3000  Resistance & Protection  collution degree 3  collutions  44  (1.73")  (0.33")		· ·	min	°C	-60
Max altitude m 3000  Resistance & Protection  Collution degree 3  Collution s  A4.4					
Resistance & Protection  collution degree  3  3  44  44  (0.17")  (0.38")  (0.33")  (0.33")  (0.33")  (0.33")  3  3  3  44  (1.73")  (0.38")  (1.37")  (0.38")  (0.38")  (0.38")  (0.38")	Max altitude				
Vollution degree  Dimensions  3  4.4  (1.73")  (0.33")		nn -			0000
Dimensions  4.4  (1.73")  (0.17")  (0.33")  (0.33")  (0.33")  (0.33")  (0.33")  (0.33")  (0.33")  (0.33")  (0.33")  (0.33")  (0.33")  (0.33")  (0.33")  (0.33")  (0.33")  (0.33")  (0.33")		511			3
4.4 (1.73") (2.24") (2.24") (2.33") (3.33") (0					3
4.4 (2.24") (2.24") (3.33") (0.33")					
$(0.33^{\circ})$ $(1.73^{\circ})$ $(3.51^{\circ})$	4.4 (0.17")	(2.24°) (1.87°) (2.28°) (3.28°)	3.2 (0.12°	(2.28") 5	RF9
Viring diagrams			(1.73")	8	(3.51")
	Wiring diagrams				

**ENERGY AND AUTOMATION** 

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, 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 **BG09** Contact characteristics Nr. 3 Number of poles Rated insulation voltage Ui IEC/EN ٧ 690 k۷ Rated impulse withstand voltage Uimp 6 Operational frequency Нъ 25 min Hz 400 max IEC Conventional free air thermal current Ith 20 Α 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 9 AC-4 (400V) 4 Rated operational power AC-3 (T≤55°C) 2.2 230V kW 400V kW 415V kW 4.3 440V kW 4.5 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 3 Α 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 10





	220V	Α	2
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
·	≤24V	Α	16
	48V	Α	16
	75V	Α	10
	110V	A	10
	220V	A	2
IFO	220 V	A	
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			
· ·	≤24V	Α	8
	48V	Α	8
	75V	A	5
	110V	A	4
150	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	10
	48V	A	10
	75V		
		A	6
	110V	A	5
	220V	Α	0,8
Short-time allowable current for 10s (IEC/EN60947-1)		Α	96
Protection fuse			
	gG (IEC)	Α	20
	aM (IEC)	Α	10
Making capacity (RMS value)	,	Α	92
Breaking capacity at voltage			
	440V	Α	72
	500V	A	72 72
	690V	A	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	Ith	W	4
	AC3	W	0.81
Tightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	lbin	9
Tightoning torque for coil terminal	Шах	ווטו	<u> </u>
Tightening torque for coil terminal		<b>N</b> I .	0.0
	min	Nm	0.8
	max	Nm	1
	min	lbin	9



		max	lbin	9
Max number of wires	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		12
	Flexible w/o lug conductor section			
		min	mm²	0.75
		max	mm²	2.5
	Flexible c/w lug conductor section			
		min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section			
		min	mm²	1.5
		max	mm²	2.5
Dower terminal prote	ation apporting to IEC/EN 60520			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	179
Conductor section				
	AWG/kcmil conductor section			
A 10		max		12
Auxiliary contact cha	racteristics		•	4.0
Thermal current Ith			Α	10
IEC/EN 60947-5-1 d	<del>-</del>			A600 - Q600
Operating current AC	715			
		230V	A	3
		400V	A	1.9
		500V	A	1.4
Operating current DC	312		_	
		110V	Α	2.9
Operating current DO	213			
		24V	Α	2.9
		48V	Α	1.4
		COV/	Α	1.2
		60V		
		110V	Α	0.6
		110V 125V	A A	0.55
		110V 125V 220V	A A A	0.55 0.3
		110V 125V	A A	0.55
_ ·		110V 125V 220V	A A A	0.55 0.3 0.1
Mechanical life		110V 125V 220V	A A A A	0.55 0.3 0.1 20000000
Mechanical life Electrical life		110V 125V 220V	A A A	0.55 0.3 0.1
Mechanical life Electrical life Safety related data		110V 125V 220V	A A A A	0.55 0.3 0.1 20000000
Mechanical life Electrical life Safety related data	10d according to EN/ISO 13489-1	110V 125V 220V 600V	A A A A	0.55 0.3 0.1 20000000 500000
Mechanical life Electrical life Safety related data	·	110V 125V 220V 600V	A A A A	0.55 0.3 0.1 20000000 500000
Mechanical life Electrical life Safety related data	·	110V 125V 220V 600V	A A A Cycles	0.55 0.3 0.1 20000000 500000
Mechanical life Electrical life Safety related data Performance level B	·	110V 125V 220V 600V	A A A A Cycles cycles	0.55 0.3 0.1 20000000 500000
	me	110V 125V 220V 600V	A A A A Cycles cycles	0.55 0.3 0.1 20000000 500000 500000 20000000

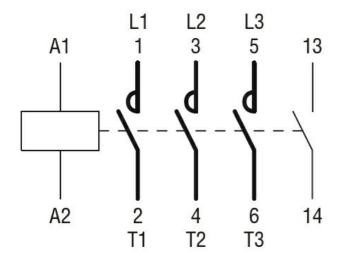




Rated AC voltage at				V	120
AC operating voltage					
	of 60Hz coil po	owered at 60Hz			
		pick-up			
			min	%Us	75
		Torres of	max	%Us	115
		drop-out		0/116	20
			min	%Us %Us	20
AC average coil con	equipotion at 20°C		max	%08	55
C average con con		I nowared at EOUz			
	01 30/6002 0011	I powered at 50Hz	in-rush	VA	30
			holding	VA	4
	of 50/60Hz coi	I powered at 60Hz	Holding	VA	
	01 30/001 12 0011	powered at our iz	in-rush	VA	25
			holding	VA	3
	of 60Hz coil po	owered at 60Hz			-
	2. 30. <u>2</u> 00 po		in-rush	VA	30
			holding	VA	4
issipation at holdin	g ≤20°C 50Hz		9	W	0.95
lax cycles frequenc					
echanical operation	•			cycles/h	3600
perating times					
verage 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
	. 50		max	ms	17
	in DC				
		Observe NO			
		Closing NO	•		40
		Closing NO	min	ms	18
			min max	ms ms	18 25
		Closing NO Opening NO	max	ms	25
			max min	ms ms	25
		Opening NO	max	ms	25
			max min max	ms ms ms	25 2 3
		Opening NO	max min max min	ms ms ms	<ul><li>25</li><li>2</li><li>3</li><li>3</li></ul>
		Opening NO Closing NC	max min max	ms ms ms	25 2 3
		Opening NO	max min max min max	ms ms ms ms	25 2 3 3 5
		Opening NO Closing NC	max min max min max min	ms ms ms ms ms	25 2 3 3 5
II technical data		Opening NO Closing NC	max min max min max	ms ms ms ms	25 2 3 3 5
		Opening NO  Closing NC  Opening NC	max min max min max min	ms ms ms ms ms	25 2 3 3 5
JL technical data full-load current (FL		Opening NO  Closing NC  Opening NC	max min max min max min max	ms ms ms ms ms	25 2 3 3 5 11 17
		Opening NO  Closing NC  Opening NC	max min max min max min	ms ms ms ms ms	25 2 3 3 5



Yielded mechanica	al performance			
	for single-phase AC motor			
	3 1	110/120V	HP	0.5
		230V	HP	1.5
	for three-phase AC motor	2001		1.0
	ioi tillee-pliase AC motol	200/208V	HP	2
			nr HP	3
		220/230V		
		460/480V	HP	5
		575/600V	HP	5
General USE				
	Contactor			
		AC current	Α	20
Short-circuit protec	ction fuse, 600V			
·	High fault			
	3	Short circuit current	kA	100
		Fuse rating	Α	30
		Fuse class	, ,	J
	Standard fault	1 400 01400		<u> </u>
	Standard radit	Short circuit current	kA	5
				30
<u> </u>		Fuse rating	Α	
	uxiliary contacts according to UL			A600 - Q600
Ambient conditions	5			
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Prote	ection			0000
Pollution degree	Solion			3
				<b>ა</b>
Dimensions				
(1.73") (0.	1.4 17") 0.6	(1.73") (0.6°)	NC 900	67
4.4 (0.17")	1.4 1.7") 0 .6 (2.24")	(1.73")	(2	.24")
4	S (2.24)		3	
<b>⊕ ⊕ ⊕ ⊕</b>		0.000	(2.28")	
			(23	
⊕⊕⊕⊕⊕			6	
85		34.9		
8.5 (0.33") (0.3	.7 - 34.9 - 38") (1.37")	34.9 — 3.2 (1.37") (0.12)	")	RF9
8.5 (0.33")		F		
8.5 (0.33")		44	_	89.2 (3.51") (0.3
		(1.73")		(3.51")
Viring diagrams				



#### 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 **BG09** Contact characteristics Nr. 3 Number of poles Rated insulation voltage Ui IEC/EN ٧ 690 k۷ Rated impulse withstand voltage Uimp 6 Operational frequency Нъ 25 min Hz 400 max IEC Conventional free air thermal current Ith 20 Α 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 9 AC-4 (400V) 4 Rated operational power AC-3 (T≤55°C) 2.2 230V kW 400V kW 415V kW 4.3 440V kW 4.5 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 3 Α 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 10



	220V	Α	2
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
·	≤24V	Α	16
	48V	Α	16
	75V	Α	10
	110V	A	10
	220V	A	2
IFO	220 V	A	
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			
· ·	≤24V	Α	8
	48V	Α	8
	75V	A	5
	110V	A	4
150	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	10
	48V	A	10
	75V		
		A	6
	110V	A	5
	220V	Α	0,8
Short-time allowable current for 10s (IEC/EN60947-1)		Α	96
Protection fuse			
	gG (IEC)	Α	20
	aM (IEC)	Α	10
Making capacity (RMS value)	,	Α	92
Breaking capacity at voltage			
	440V	Α	72
	500V	A	72 72
	690V	A	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	Ith	W	4
	AC3	W	0.81
Tightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	lbin	9
Tightoning torque for coil terminal	Шах	ווטו	<u> </u>
Tightening torque for coil terminal		<b>N</b> I .	0.0
	min	Nm	0.8
	max	Nm	1
	min	lbin	9



Max number of wires simultaneously connectable         Nr.         2           Conductor section         AWG/Kcmil         max         12           Flexible w/o lug conductor section         min         mm²         0.75           Flexible c/w lug conductor section         min         mm²         1.5           Flexible with insulated spade lug conductor section         min         mm²         1.5           Power terminal protection according to IEC/EN 60529         IP20 when properly wired           Macchanical features         Vertical plan allowable         2.0°           Operating position         vertical plan allowable         2.0°           Fibring         Screw / DIN re 35mm         35mm           Weight         g         186           Conductor section         max         12           Auxiliary contact characteristics         T         20°           Auxiliary contact characteristics         T         4600 - Q600           Operating current AC15         230V         A         3           Operating current DC12         110V         A         2,9           Operating current DC13         24V         A         2,9           Operations         24V         A         2,9           Operations <th></th> <th></th> <th>max</th> <th>lbin</th> <th>9</th>			max	lbin	9
AWG/Kcmil   Piexible w/o lug conductor section   Piexible w/o lug conductor section   Piexible w/o lug conductor section   Piexible c/w lug conductor section   Piexible c/w lug conductor section   Piexible w/w lug conductor section	Max number of wires	simultaneously connectable		Nr.	2
Flexible w/o lug conductor section	Conductor section				
Flexible w/o lug conductor section		AWG/Kcmil			
Pickible c/w lug conductor section			max		12
Plexible c/w lug conductor section   min		Flexible w/o lug conductor section			
Flexible c/w lug conductor section			min	mm²	0.75
Place			max	mm²	2.5
Prize   Priz		Flexible c/w lug conductor section			
Flexible with insulated spade lug conductor section   min   mm²   1.5   max   mm²   2.5			min	mm²	1.5
Minimax   Mini			max	mm²	2.5
Power terminal protection according to IEC/EN 60529   Power terminal protection allowable   Power terminal protection		Flexible with insulated spade lug conductor section	n		
Power terminal protection according to IEC/EN 60529   IP20 when properly wired Mechanical features   IP20 when properly wired			min	mm²	1.5
Property referminal protection according to IEC/EN 60929   Property wired   Property   Property wired   Property wired   Property wired   Property   Propert			max	mm²	2.5
Mechanical features	Power terminal prote	ction according to IEC/EN 60520			IP20 when
Operating position         normal allowable         Vertical plan between the plan of the part of	r ower terminal prote	ction according to IEC/EN 00329			properly wired
Normal allowable   Screw / DIN ra 30°   30°					
Signary   Sign	Operating position				
Screw / DIN ra 35mm   Screw / DIN ra 35mm			normal		
Samm			allowable		±30°
Meight	Fixing				Screw / DIN rail
AWG/kcmil conductor section   max					
AWG/kcmil conductor section    max				g	186
Max   12   12   13   13   13   14   14   15   15   15   15   15   15	Conductor section	ANAIC/hamail agus duatan agustian			
Auxiliary contact characteristics		AVVG/KCMII conductor section			40
Thermal current Ith	Auvilian, contact char	o eta vieti ea	max		12
EC/EN 60947-5-1 designation	•	aciensiics		Λ	10
Operating current AC15  230V A 3 400V A 1.9 500V A 1.4  Operating current DC12  110V A 2.9  Operating current DC13  24V A 2.9  48V A 1.4 60V A 1.2 110V A 0.6 60V A 1.2 110V A 0.6 125V A 0.55 220V A 0.3 600V A 0.1  Operations  Mechanical life cycles 500000  Electrical life cycles 500000  Safety related data  Performance level B10d according to EN/ISO 13489-1  rated load cycles 500000  mechanical load cycles 500000  mechanical load cycles 500000  mechanical load cycles 500000  Mirror contats according to IEC/EN 609474-4-1  yes  EMC compatibility yes		opignation		A	
230V		<u> </u>			A000 - Q000
A 00V   A 1.9     500V   A 1.4     Departing current DC12     110V   A 2.9     24V   A 2.9     48V   A 1.4     60V   A 1.2     110V   A 0.6     125V   A 0.55     220V   A 0.3     600V   A 0.1     Operations     Mechanical life   cycles     Electrical life   cycles     Electrical life   cycles     Safety related data     Performance level B10d according to EN/ISO 13489-1     rated load   cycles     mechanical load   cycles     south of the cycles     south	Operating current AC	010	0001/	۸	0
SOUV   A   1.4   Coperating current DC12   T10V   A   2.9   Coperating current DC13   T10V   A   2.9   Coperating current DC13   T10V   A   2.9   T10V   A   2.9   T10V   A   2.9   T10V   A   2.9   T10V   A   1.4   T10V   A   1.2   T10V   A   1.2   T10V   A   0.6   T125V   A   0.55   T125V   A   0.55   T125V   A   0.55   T125V   A   0.3   T125V   A   0.55				_	
Operating current DC12					
110V	On a ratio a a correct DC	240	5007	Α	1.4
Operating current DC13	Operating current DC	712	440)/	^	0.0
24V   A   2.9   48V   A   1.4   60V   A   1.2   110V   A   0.6   125V   A   0.55   220V   A   0.3   600V   A   0.1   0	0 " 100	240	1100	А	2.9
A8V   A   1.4   60V   A   1.2   110V   A   0.6   125V   A   0.55   220V   A   0.3   600V   A   0.1   0.6   0.0	Operating current DC	713	201		
60V A 1.2   110V A 0.6   125V A 0.55   125V A 0.3   600V A 0.1   600					
110V					
125V A 0.55					
220V A 0.3   600V A 0.1					
Operations         600V         A         0.1           Mechanical life         cycles         20000000           Electrical life         cycles         500000           Safety related data           Performance level B10d according to EN/ISO 13489-1           rated load cycles         500000 mechanical load cycles         20000000           Mirror contats according to IEC/EN 609474-4-1         yes           EMC compatibility         yes					
Mechanical life cycles 20000000  Electrical life cycles 500000  Safety related data  Performance level B10d according to EN/ISO 13489-1  rated load cycles 500000  mechanical load cycles 20000000  Mirror contats according to IEC/EN 609474-4-1  EMC compatibility yes					
Mechanical life cycles 20000000  Electrical life cycles 500000  Safety related data  Performance level B10d according to EN/ISO 13489-1  rated load cycles 500000  mechanical load cycles 20000000  Mirror contats according to IEC/EN 609474-4-1  EMC compatibility yes	Onevetiens		600V	А	U.T
Electrical life cycles 500000  Safety related data  Performance level B10d according to EN/ISO 13489-1  rated load cycles 500000  mechanical load cycles 20000000  Mirror contats according to IEC/EN 609474-4-1  EMC compatibility yes					20000000
Safety related data  Performance level B10d according to EN/ISO 13489-1  rated load cycles 500000  mechanical load cycles 20000000  Mirror contats according to IEC/EN 609474-4-1  EMC compatibility  yes					
Performance level B10d according to EN/ISO 13489-1  rated load cycles 500000 mechanical load cycles 20000000  Mirror contats according to IEC/EN 609474-4-1  EMC compatibility  yes				cycles	500000
rated load cycles 500000 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility yes		40 Leave Park to FN/900 40 400 4			
mechanical load cycles 20000000  Mirror contats according to IEC/EN 609474-4-1 yes  EMC compatibility yes	Performance level B	Tud according to EN/ISO 13489-1			500000
Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes				-	
EMC compatibility yes			mechanical load	cycles	
· · · · · · · · · · · · · · · · · · ·		ling to IEC/EN 609474-4-1			-
AC coil operating					yes
	AC coil operating				





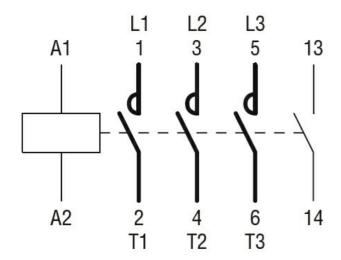
Rated AC voltage at				V	220
.C operating voltage		1			
	of 60Hz coil pov				
		pick-up	min	%Us	75
			max	%Us	75 115
		drop-out	max	7003	110
		ж. ор. ож.	min	%Us	20
			max	%Us	55
C average coil con	sumption at 20°C				
	of 50/60Hz coil	powered at 50Hz			
			in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil	powered at 60Hz	ماميس من	١/٨	25
			in-rush	VA VA	25 3
	of 60Hz coil pov	wered at 60Hz	holding	VA	<u>ა</u>
	or our iz con por	wordu at our IZ	in-rush	VA	30
			holding	VA	4
Dissipation at holding	g ≤20°C 50Hz		9	W	0.95
lax cycles frequenc					
lechanical operation	•			cycles/h	3600
Operating times					
verage time for Us					
	in AC	0			
		Closing NO	min	<b></b>	12
			min max	ms ms	21
		Opening NO	Шах	1113	21
		Gp31g . 1.3	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	<ul><li>26</li><li>7</li></ul>
	in DC	-	max	ms	26
	in DC	Opening NC	max min	ms ms	<ul><li>26</li><li>7</li></ul>
	in DC	-	max min max	ms ms ms	26 7 17
	in DC	Opening NC	max min max min	ms ms ms	26 7 17
	in DC	Opening NC	max min max	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	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 NC  Closing NO  Opening NO  Closing NC	max min max min max min max	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	26 7 17 18 25 2 3 3 5
	in DC	Opening NC  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
I technical data	in DC	Opening NC  Closing NO  Opening NO  Closing NC	max min max min max min max min max	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



Contactor  High fault  Short circuit current KA 100 Fuse rating A 30 Fuse class J  Standard fault  Short circuit current KA 5 Fuse class J  Standard fault  Short circuit current Fuse rating A 30 Fuse class J  Contact rating of auxiliary contacts according to UL A600 - Q600 mbient conditions  Emperature  Operating temperature  Operating temperature  Storage temperature  Min °C -50 max °C +70 Storage temperature  Min °C -60 max °C +80 max °C max °C +80 max °C	Vialdad				
110/120V	Y leided mechanical pe				
230V HP 1.5		tor single-phase AC motor			0.5
for three-phase AC motor  200/208V HP 3 460/480V HP 5 575/600V HP 5  Seneral USE  Contactor  AC current A 20  short-circuit protection fuse, 600V High fault  Short circuit current KA 100 Fuse rating A 30 Fuse class J  Standard fault  Short circuit current KA 5 Fuse rating A 30  contact rating of auxiliary contacts according to UL  mblent conditions emperature  Operating temperature  Operating temperature  Thin *C -50 max *C +70  Storage temperature  min *C -60 max *C +80  fax altitude min *C -60 max *C +80 max *C +80  fax altitude min *C -60 max *C +80 max *C +80  fax altitude min *C -60 max *C +80					
200/208V   HP   2   220/230V   HP   3   480/480V   HP   5   575/600V   HP   5			230V	HP	1.5
220/230V		for three-phase AC motor			
A60/480V			200/208V	HP	2
Seneral USE   Contactor   AC current   A   20			220/230V	HP	3
Contactor  AC current A 20  Short-circuit protection fuse, 600V High fault  Short circuit current Fuse rating A 30 Fuse class J  Standard fault  Short circuit current KA 100 Fuse rating A 30 Fuse class J  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary and a 30  A600 - Q600  Indient conditions  Contact rating of auxiliary and a 30  A600 - Q600  Indient conditions  Contact rating of auxiliary and a 30  A600 - Q600  Indient conditions  Contact rating of auxiliary and a 30  A600 - Q600  Indient conditions  Contact rating of auxiliary and a 30  A600 - Q600  Indient conditions  Contact rating of auxiliary and a 30  Indient conditions  Contact rating of auxiliary and a 30  Indient conditions  Contact rating of auxiliary and a 30  Indient conditions  Contact rating of auxiliary and a 30  Indient conditions  Contact ratin			460/480V	HP	5
Contactor  High fault  Short circuit current KA 100 Fuse rating A 30 Fuse class J  Standard fault  Short circuit current KA 5 Fuse class J  Standard fault  Short circuit current Fuse rating A 30 Fuse class J  Contact rating of auxiliary contacts according to UL A600 - Q600 mbient conditions  Emperature  Operating temperature  Operating temperature  Storage temperature  Min °C -50 max °C +70 Storage temperature  Min °C -60 max °C +80 max °C max °C +80 max °C			575/600V	HP	5
AC current A 20  whort-circuit protection fuse, 600V High fault  Short circuit current KA 100 Fuse rating A 30 Fuse class J  Standard fault  Short circuit current KA 5 Fuse rating A 30 Fuse rating of auxiliary contacts according to UL  mbient conditions  emperature  Operating temperature  Min °C -50 max °C +70  Storage temperature  min °C -60 max °C +80  Max altitude  max °C +80  Max altitude  Storage temperature  Max altitude  Max	General USE				
AC current A 20  whort-circuit protection fuse, 600V High fault  Short circuit current KA 100 Fuse rating A 30 Fuse class J  Standard fault  Short circuit current KA 5 Fuse rating A 30 Fuse rating of auxiliary contacts according to UL  mbient conditions  emperature  Operating temperature  Min °C -50 max °C +70  Storage temperature  min °C -60 max °C +80  Max altitude  max °C +80  Max altitude  Storage temperature  Max altitude  Max		Contactor			
Short-circuit protection fuse, 600V High fault  Short circuit current kA 100 Fuse rating A 30 Fuse class J  Standard fault  Short circuit current kA 5 Fuse rating A 30  Contact rating of auxiliary contacts according to UL Imbient conditions  emperature  Operating temperature  Operating temperature  Min °C -50 max °C +70  Storage temperature  Max altitude  m 3000  desistance & Protection  Fuse rating A 30  A600 - Q600  Max altitude  min °C -60 max °C +80  Max altitude  m 3000  desistance & Protection  Fuse rating A 30  A600 - Q600  A			AC current	Α	20
High fault  Short circuit current KA 100 Fuse rating A 30 Fuse class J  Standard fault  Short circuit current KA 5 Fuse rating A 30 Fuse ratin	Short-circuit protection	n fuse 600V	,		
Short circuit current kA 100 Fuse rating A 30 Fuse class J  Standard fault  Short circuit current kA 5 Fuse rating A 30 Fuse class J  Standard fault  Short circuit current kA 5 Fuse rating A 30  Contact rating of auxiliary contacts according to UL Imbient conditions  Emperature  Operating temperature  Operating temperature  Min °C -50 max °C +70  Storage temperature  min °C -60 max °C +80  Axa altitude  Exercise Protection  Follution degree  Total Contact rating of auxiliary contacts according to UL Imbient conditions  The protection of the prote	Short direatt protection				
Standard fault  Short circuit current kA 5 Fuse rating A 30 Fuse rating A 30 Fuse class J  Standard fault  Short circuit current kA 5 Fuse rating A 30 Fuse rat		i ligit lault	Short circuit current	L۸	100
Standard fault  Short circuit current kA 5 Fuse rating A 30  Contact rating of auxiliary contacts according to UL mblent conditions  remperature  Operating temperature  Min °C -50 max °C +70  Storage temperature  Max altitude min °C -60 max °C +80  Max altitude min °C -60  Max of the conditions of t					
Standard fault  Short circuit current Fuse rating A 30  Contact rating of auxiliary contacts according to UL Machine Indicate Ind			<del>_</del>	A	
Short circuit current KA 5 Fuse rating A 30  contact rating of auxiliary contacts according to UL mbient conditions  remperature  Operating temperature  Min °C -50 max °C +70  Storage temperature  min °C -60 max °C +80  As altitude max °C +80  As altitude max °C +80  Cesistance & Protection  rollution degree 3  Signature  Operating temperature  Min °C -60 max °C +80  As altitude max °C -80  Cesistance & Protection  rollution degree 3  Operating temperature		01	Fuse class		J
Contact rating of auxiliary contacts according to UL mbient conditions  emperature  Operating temperature  Min °C -50 max °C +70  Storage temperature  Min °C -60 max °C +80  As altitude  Max altitude  Collution degree  Soliution		Standard fault			_
Contact rating of auxiliary contacts according to UL  Imbient conditions  Temperature  Operating temperature  Operating temperature  Imin °C -50 Imax °C +70  Storage temperature  Imin °C -60 Imax °C +80  Imax °C +					
Operating temperature  Operating temperature  min °C -50 max °C +70  Storage temperature  min °C -60 max °C +80  At a altitude  min °C -60 max °C +80  At a lititude  cesistance & Protection  collution degree  3  Output  Ou			Fuse rating	A	
Operating temperature    Min		ary contacts according to UL			A600 - Q600
Operating temperature  min °C -50 max °C +70  Storage temperature  min °C -60 max °C +80  Ax altitude m 3000  Resistance & Protection  collution degree  3  Dimensions  144 173 1017 1017 1017 1017 1017 1017 1017					
min °C -50 max °C +70     Storage temperature   min °C -60 max °C +80     Max altitude   m 3000     Cesistance & Protection     Collution degree   3     College   3     Co	Temperature				
Max o C +70     Storage temperature   min o C -60     max o C +80     Max altitude   m 3000     Cesistance & Protection     Collution degree   3     Collution degree		Operating temperature			
Storage temperature    min			min	°C	-50
min °C -60 max °C +80  Max altitude m 3000  Resistance & Protection  Pollution degree 3  Simensions  144  0.17  0.17  0.33  0.34  0.35  0.			max	°C	+70
min °C -60 max °C +80  Max altitude m 3000  Resistance & Protection  Pollution degree 3  Simensions  144  0.17  0.17  0.33  0.34  0.35  0.		Storage temperature			
Max altitude m 3000  Resistance & Protection  collution degree 3  collutions  44  (1.73")  (0.33")		· ·	min	°C	-60
Max altitude m 3000  Resistance & Protection  Collution degree 3  Collution s  A4.4					
Resistance & Protection  collution degree  3  3  44  44  (0.17")  (0.38")  (0.33")  (0.33")  (0.33")  (0.33")  3  3  3  44  (1.73")  (0.38")  (1.37")  (0.38")  (0.38")  (0.38")  (0.38")	Max altitude				
Vollution degree  Dimensions  3  4.4  (1.73")  (0.33")		nn -			0000
Dimensions  4.4  (1.73")  (0.17")  (0.33")  (0.33")  (0.33")  (0.33")  (0.33")  (0.33")  (0.33")  (0.33")  (0.33")  (0.33")  (0.33")  (0.33")  (0.33")  (0.33")  (0.33")  (0.33")  (0.33")		511			3
4.4 (1.73") (2.24") (2.24") (2.33") (3.33") (0					3
4.4 (2.24") (2.24") (3.33") (0.33")					
$(0.33^{\circ})$ $(1.73^{\circ})$ $(3.51^{\circ})$	4.4 (0.17")	(2.24°) (1.87°) (2.28°) (3.28°)	3.2 (0.12°	(2.28") 5	RF9
Viring diagrams			(1.73")	8	(3.51")
	Wiring diagrams				

**ENERGY AND AUTOMATION** 

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, 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 designation Power contactor Product type designation **BG09** Contact characteristics Nr. 3 Number of poles Rated insulation voltage Ui IEC/EN ٧ 690 k۷ Rated impulse withstand voltage Uimp 6 Operational frequency Нъ 25 min Hz 400 max IEC Conventional free air thermal current Ith 20 Α 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 9 AC-4 (400V) 4 Rated operational power AC-3 (T≤55°C) 2.2 230V kW 400V kW 415V kW 4.3 440V kW 4.5 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 3 Α 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 10



	220V	Α	2
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
·	≤24V	Α	16
	48V	Α	16
	75V	Α	10
	110V	A	10
	220V	A	2
IFO	220 V	A	
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			
· ·	≤24V	Α	8
	48V	Α	8
	75V	A	5
	110V	A	4
150	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	10
	48V	A	10
	75V		
		A	6
	110V	A	5
	220V	Α	0,8
Short-time allowable current for 10s (IEC/EN60947-1)		Α	96
Protection fuse			
	gG (IEC)	Α	20
	aM (IEC)	Α	10
Making capacity (RMS value)	,	Α	92
Breaking capacity at voltage			
	440V	Α	72
	500V	A	72 72
	690V	A	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	Ith	W	4
	AC3	W	0.81
Tightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	lbin	9
Tightoning torque for coil terminal	Шах	ווטו	<u> </u>
Tightening torque for coil terminal		<b>N</b> I .	0.0
	min	Nm	0.8
	max	Nm	1
	min	lbin	9



Max number of wires		max	lbin	9
Max Harribor or Willoc	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		12
	Flexible w/o lug conductor section			
		min	mm²	0.75
		max	mm²	2.5
	Flexible c/w lug conductor section			
		min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section			
		min	mm²	1.5
		max	mm²	2.5
Power terminal prote	ction according to IEC/EN 60529			IP20 when
r ower terminal prote	ction according to IEC/EN 00329			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	187
Conductor section			9	107
Conductor Section	AWG/kcmil conductor section			
	AVVG/RCITIII CONDUCTOR SECTION	max		12
Auxiliary contact cha	ractorietics	IIIax		12
Thermal current Ith	acteristics		А	10
IEC/EN 60947-5-1 d	esignation			A600 - Q600
Operating current AC	-			A000 - Q000
Operating current Ac	,10	2201/	۸	2
		230V 400V	A	3 1.9
		500V	A A	1.4
Operating ourrent DC	<u> </u>	300 V	^	1.4
Operating current DO	,12	440\/	٨	2.0
O	240	110V	A	2.9
Operating current DO	,13	0.41/	Δ.	0.0
		24V	A	2.9
		48V	Α	1.4 1.2
		2011		1.7
		60V	A	
		110V	Α	0.6
		110V 125V	A A	0.6 0.55
		110V 125V 220V	A A A	0.6 0.55 0.3
		110V 125V	A A	0.6 0.55
_ ·		110V 125V 220V	A A A	0.6 0.55 0.3 0.1
Mechanical life		110V 125V 220V	A A A A	0.6 0.55 0.3 0.1
Mechanical life Electrical life		110V 125V 220V	A A A	0.6 0.55 0.3 0.1
Mechanical life Electrical life Safety related data		110V 125V 220V	A A A A	0.6 0.55 0.3 0.1
Mechanical life Electrical life Safety related data	10d according to EN/ISO 13489-1	110V 125V 220V 600V	A A A Cycles	0.6 0.55 0.3 0.1 20000000 500000
Mechanical life Electrical life Safety related data	-	110V 125V 220V 600V	A A A A Cycles cycles	0.6 0.55 0.3 0.1 20000000 500000
Mechanical life Electrical life Safety related data Performance level B	me	110V 125V 220V 600V	A A A Cycles	0.6 0.55 0.3 0.1 20000000 500000
Mechanical life Electrical life Safety related data Performance level B Mirror contats accord	-	110V 125V 220V 600V	A A A A Cycles cycles	0.6 0.55 0.3 0.1 20000000 500000
	me	110V 125V 220V 600V	A A A A Cycles cycles	0.6 0.55 0.3 0.1 20000000 500000 500000 20000000





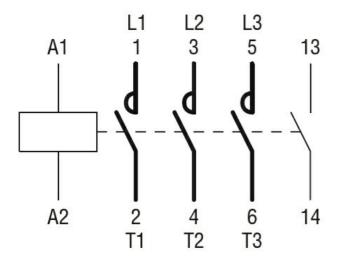
Rated AC voltage at 6	0Hz			V	230
AC operating voltage					
	of 60Hz coil power				
		pick-up	min	%Us	75
			max	%Us	115
		drop-out	max	7000	110
		,	min	%Us	20
			max	%Us	55
AC average coil consu	ımption at 20°C				
	of 50/60Hz coil po	owered at 50Hz			
			in-rush	VA	30
	( 50/0011 "		holding	VA	4
	of 50/60Hz coil po	owered at 60Hz	in ruch	١/٨	25
			in-rush holding	VA VA	25 3
	of 60Hz coil power	red at 60Hz	riolality	V/\	3
	31 001 12 0011 powe	704 dt 001 12	in-rush	VA	30
			holding	VA	4
Dissipation at holding :	≤20°C 50Hz		<u> </u>	W	0.95
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co					
	in AC	Olasia a NO			
		Closing NO	min	ms	12
			max	ms	21
		Opening NO	max	1113	21
		ороg . то	min	ms	9
			max	ms	18
		Closing NC			
			min	ms	17
			max	ms	26
		Opening NC			_
			min	ms	7
	<del></del>		max	ms	17
	in DC				
	in DC	Closing NO			
	in DC	Closing NO		ms	18
	in DC	Closing NO	min max	ms ms	18 25
	in DC	Closing NO Opening NO	min		
	in DC		min		<ul><li>25</li><li>2</li></ul>
	in DC	Opening NO	min max	ms	25
	in DC		min max min max	ms ms ms	<ul><li>25</li><li>2</li><li>3</li></ul>
	in DC	Opening NO	min max min max min	ms ms ms	<ul><li>25</li><li>2</li><li>3</li><li>3</li></ul>
	in DC	Opening NO Closing NC	min max min max	ms ms ms	<ul><li>25</li><li>2</li><li>3</li></ul>
	in DC	Opening NO	min max min max min max	ms ms ms ms	<ul><li>25</li><li>2</li><li>3</li><li>5</li></ul>
	in DC	Opening NO Closing NC	min max min max min max min	ms ms ms ms	<ul><li>25</li><li>2</li><li>3</li><li>5</li><li>11</li></ul>
JL technical data	in DC	Opening NO Closing NC	min max min max min max	ms ms ms ms	<ul><li>25</li><li>2</li><li>3</li><li>5</li></ul>
		Opening NO  Closing NC  Opening NC	min max min max min max min	ms ms ms ms	<ul><li>25</li><li>2</li><li>3</li><li>5</li><li>11</li></ul>
JL technical data Full-load current (FLA)		Opening NO  Closing NC  Opening NC	min max min max min max min	ms ms ms ms	<ul><li>25</li><li>2</li><li>3</li><li>5</li><li>11</li></ul>



Yielded mechanica	al performance			
	for single-phase AC motor			
	3 1	110/120V	HP	0.5
		230V	HP	1.5
	for three-phase AC motor	2001		1.0
	ioi tillee-pliase AC motol	200/208V	HP	2
			nr HP	3
		220/230V		
		460/480V	HP	5
		575/600V	HP	5
General USE				
	Contactor			
		AC current	Α	20
Short-circuit protec	ction fuse, 600V			
·	High fault			
	3	Short circuit current	kA	100
		Fuse rating	Α	30
		Fuse class	, ,	J
	Standard fault	1 400 01400		<u> </u>
	Standard radit	Short circuit current	kA	5
				30
<u> </u>		Fuse rating	Α	
	uxiliary contacts according to UL			A600 - Q600
Ambient conditions	5			
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Prote	ection			0000
Pollution degree	Solion			3
				<b>ა</b>
Dimensions				
(1.73") (0.	1.4 17") 0.6	(1.73") (0.6°)	NC 900	67
4.4 (0.17")	1.4 1.7") 0 .6 (2.24")	(1.73")	(2	.24")
4	S (2.24)		3	
<b>⊕ ⊕ ⊕ ⊕</b>		0.000	(2.28")	
			(23	
⊕⊕⊕⊕⊕			6	
85		34.9		
8.5 (0.33") (0.3	.7 - 34.9 - 38") (1.37")	34.9 — 3.2 (1.37") (0.12)	")	RF9
8.5 (0.33")		F		
8.5 (0.33")		44	_	89.2 (3.51") (0.3
		(1.73")		(3.51")
Viring diagrams				

**ENERGY AND AUTOMATION** 

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, 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 designation Power contactor Product type designation **BG09** Contact characteristics Nr. 3 Number of poles Rated insulation voltage Ui IEC/EN ٧ 690 k۷ Rated impulse withstand voltage Uimp 6 Operational frequency Нъ 25 min Hz 400 max IEC Conventional free air thermal current Ith 20 Α 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 9 AC-4 (400V) 4 Rated operational power AC-3 (T≤55°C) 2.2 kW 230V 400V kW 415V kW 4.3 440V kW 4.5 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 3 Α 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 10





	220V	Α	2
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
·	≤24V	Α	16
	48V	Α	16
	75V	Α	10
	110V	A	10
	220V	A	2
IFO	220 V	A	
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			
· ·	≤24V	Α	8
	48V	Α	8
	75V	A	5
	110V	A	4
150	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	10
	48V	A	10
	75V		
		A	6
	110V	A	5
	220V	Α	0,8
Short-time allowable current for 10s (IEC/EN60947-1)		Α	96
Protection fuse			
	gG (IEC)	Α	20
	aM (IEC)	Α	10
Making capacity (RMS value)	,	Α	92
Breaking capacity at voltage			
	440V	Α	72
	500V	A	72 72
	690V	A	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	Ith	W	4
	AC3	W	0.81
Tightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	lbin	9
Tightoning torque for coil terminal	Шах	ווטו	<u> </u>
Tightening torque for coil terminal		<b>N</b> I .	0.0
	min	Nm	0.8
	max	Nm	1
	min	lbin	9



		max	Ibin	9
	s simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		12
	Flexible w/o lug conductor section			
		min	mm²	0.75
		max	mm²	2.5
	Flexible c/w lug conductor section			
		min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section			
		min	mm²	1.5
		max	mm²	2.5
Power terminal prote	ection according to IEC/EN 60529			IP20 when
	sction according to IEC/EN 60329			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	178
Conductor section			9	
Conductor Section	AWG/kcmil conductor section			
	AVVO/Rettill collected section	max		12
Auxiliary contact cha	ractoristics	IIIdx		12
Thermal current Ith	racionatica		А	10
IEC/EN 60947-5-1 c	osignation			A600 - Q600
Operating current A				A000 - Q000
Operating current At	710	2201/	٨	2
		230V 400V	A	3
			A	1.9
O	240	500V	Α	1.4
Operating current Do	.17			
	312	440)/		0.0
		110V	Α	2.9
Operating current Do				
Operating current Do		24V	А	2.9
Operating current D0		24V 48V	A A	2.9 1.4
Operating current Do		24V 48V 60V	A A A	2.9 1.4 1.2
Operating current Do		24V 48V 60V 110V	A A A	2.9 1.4 1.2 0.6
Operating current Do		24V 48V 60V 110V 125V	A A A A	2.9 1.4 1.2 0.6 0.55
Operating current Do		24V 48V 60V 110V 125V 220V	A A A A	2.9 1.4 1.2 0.6 0.55 0.3
		24V 48V 60V 110V 125V	A A A A	2.9 1.4 1.2 0.6 0.55
Operations		24V 48V 60V 110V 125V 220V	A A A A A	2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operations Mechanical life		24V 48V 60V 110V 125V 220V	A A A A A A cycles	2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operations Mechanical life Electrical life		24V 48V 60V 110V 125V 220V	A A A A A	2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operations Mechanical life Electrical life Safety related data	C13	24V 48V 60V 110V 125V 220V	A A A A A A cycles	2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operations Mechanical life Electrical life Safety related data		24V 48V 60V 110V 125V 220V	A A A A A A cycles	2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operations Mechanical life Electrical life Safety related data	C13	24V 48V 60V 110V 125V 220V	A A A A A A cycles	2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operations Mechanical life Electrical life Safety related data	.10d according to EN/ISO 13489-1	24V 48V 60V 110V 125V 220V 600V	A A A A A A cycles	2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Operations  Mechanical life  Electrical life  Safety related data  Performance level B	.10d according to EN/ISO 13489-1	24V 48V 60V 110V 125V 220V 600V	A A A A A A Cycles cycles	2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Operations  Mechanical life  Electrical life  Safety related data  Performance level B	10d according to EN/ISO 13489-1	24V 48V 60V 110V 125V 220V 600V	A A A A A A Cycles cycles	2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000





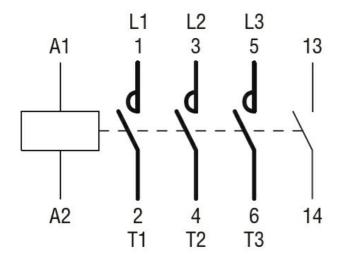
Rated AC voltage at	60Hz		V	460
AC operating voltag				
	of 60Hz coil powered at 60H			
	pick	•	0/116	7.5
		min max		75 115
	drop		70US	115
	urop	min	%Us	20
		max		55
AC average coil cor	sumption at 20°C			
· ·	of 50/60Hz coil powered at 5	50Hz		
		in-rush	VA	30
		holding	VA	4
	of 50/60Hz coil powered at 6			
		in-rush		25
		holding	VA	3
	of 60Hz coil powered at 60H	z in-rush	١/٨	20
		in-rusn holding	VA VA	30 4
Dissipation at holdin	 n <20°C 50Hz	noiding	W	0.95
Max cycles frequent			v v	0.00
Mechanical operatio	•		cycles/h	3600
Operating times			<b>5,</b> 5.5 5, 1.5	
Average time for Us	control			
_	in AC			
	Clos	sing NO		
		min	ms	12
		max	ms	21
	Ope	ning NO		_
		min		9
	Class	max	ms	18
	Clos	sing NC min	ms	17
		max		26
	Ope	ning NC	1110	20
	- Gpc	min	ms	7
		max		17
	in DC			
	Clos	sing NO		
		min	ms	18
		max	ms	25
	Ope	ning NO		
		min		2
	01	max	ms	3
	Clos	sing NC min	me	3
		max		5
	One	ning NC	1119	J
	Оре	min	ms	11
				• •
				17
JL technical data		max		17
	A) for three-phase AC motor			17
UL technical data Full-load current (FL	A) for three-phase AC motor			7.6



Yielded mechanical perfor	mance			
foi	r single-phase AC motor			
	<b>J</b>	110/120V	HP	0.5
		230V	HP	1.5
for	r three phase AC mater	200 V		1.0
101	r three-phase AC motor	000/0001/		
		200/208V	HP	2
		220/230V	HP	3
		460/480V	HP	5
		575/600V	HP	5
General USE				
Co	ontactor			
30	Sindotoi	AC current	Α	20
Chart aircuit protection fue	0. 6001/	AO GUITEIR		20
Short-circuit protection fus				
Hi	gh fault			
		Short circuit current	kA	100
		Fuse rating	Α	30
		Fuse class		J
Sta	andard fault			
		Short circuit current	kA	5
		Fuse rating	Α	30
Contact rating of auxiliary of	contacts according to LII	i doo ramig	, ,	A600 - Q600
Ambient conditions	contacts according to OL			A000 - Q000
Temperature				
Op	perating temperature			
		min	°C	-50
		max	°C	+70
St	orage temperature			
		min	°C	-60
		max	°C	+80
Max altitude		max		3000
			m	3000
Resistance & Protection				-
Pollution degree				3
Dimensions				
4.4 (0.17") (0.17") (0.17") (0.17") (0.33") (0.33") (0.33") (0.38") (1.37") (0.38")	(2.28")	2. E. O H H O (1.37") 3.2 (0.12"	(2.28") 5	89.2 (3.51")
(0.33") Wiring diagrams		(1.73")		(3.51)

**ENERGY AND AUTOMATION** 

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, 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 Power contactor Product type designation **BG09** Contact characteristics Nr. 3 Number of poles Rated insulation voltage Ui IEC/EN ٧ 690 k۷ Rated impulse withstand voltage Uimp 6 Operational frequency Нъ 25 min Hz 400 max IEC Conventional free air thermal current Ith 20 Α 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 9 AC-4 (400V) 4 Rated operational power AC-3 (T≤55°C) 2.2 230V kW 400V kW 415V kW 4.3 440V kW 4.5 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 3 Α 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 10





	220V	Α	2
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	16
	48V	Α	16
	75V	Α	10
	110V	Α	10
	220V	Α	2
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			
	≤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	.0.41.7		
	≤24V	Α	10
	48V	Α	10
	75V	A	6
	110V	A	5
Object ('see all a self as see the 40 c (IEO/ENIO0047.4)	220V	A	0,8
Short-time allowable current for 10s (IEC/EN60947-1)		Α	96
Protection fuse	. 0 (150)	Δ.	00
	gG (IEC)	A	20
Malian and site (DMC value)	aM (IEC)	A	10
Making capacity (RMS value)		Α	92
Breaking capacity at voltage	4.40\./	Δ.	70
	440V	A	72 73
	500V	A	72 73
Desigtance normale (average value)	690V	A	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)	141_	147	4
	Ith	W	4
Tightoning targue for terminals	AC3	W	0.81
Tightening torque for terminals	min	Nima	0.0
	min	Nm Nm	0.8
	max min	Nm Ibin	1 9
		Ibin	9
Tightening torque for coil terminal	max	וווטו	<b>9</b>
rightening torque for contentinal	min	Nlm	Λ 8
	min	Nm Nm	0.8
	max min	Ibin	1 9
	[1111]	ווטו	J



		max	Ibin	9
	simultaneously connectable		Nr.	2
Conductor section	ANA(O/I/C ''			
	AWG/Kcmil			4.0
	Clavible w/o live an diretor anation	max		12
	Flexible w/o lug conductor section	min	mama <sup>2</sup>	0.75
		min	mm² mm²	0.75 2.5
	Flexible c/w lug conductor section	max	1111111	2.0
	r lexible c/w rug corrudctor section	min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section	IIIdx	111111	2.0
	r lexible with insulated space by conductor section	min	mm²	1.5
		max	mm²	2.5
		max		IP20 when
Power terminal protect	tion according to IEC/EN 60529			properly wired
Mechanical features				, , ,
Operating position				
		normal		Vertical plan
		allowable		±30°
Finding:				Screw / DIN rail
Fixing				35mm
Weight			g	187
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact chara	acteristics			
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	-			A600 - Q600
Operating current AC	15			
		230V	Α	3
		400V	Α	1.9
		500V	Α	1.4
Operating current DC	12			
		110V	Α	2.9
		1101		
Operating current DC	13			
Operating current DC	13	24V	А	2.9
Operating current DC	13	24V 48V	A A	2.9 1.4
Operating current DC	13	24V 48V 60V	A A A	2.9 1.4 1.2
Operating current DC	13	24V 48V 60V 110V	A A A	2.9 1.4 1.2 0.6
Operating current DC	13	24V 48V 60V 110V 125V	A A A A	2.9 1.4 1.2 0.6 0.55
Operating current DC	13	24V 48V 60V 110V 125V 220V	A A A A	2.9 1.4 1.2 0.6 0.55 0.3
, v	13	24V 48V 60V 110V 125V	A A A A	2.9 1.4 1.2 0.6 0.55
Operations	13	24V 48V 60V 110V 125V 220V	A A A A A	2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operations Mechanical life	13	24V 48V 60V 110V 125V 220V	A A A A A A cycles	2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operations Mechanical life Electrical life	13	24V 48V 60V 110V 125V 220V	A A A A A	2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operations Mechanical life Electrical life Safety related data		24V 48V 60V 110V 125V 220V	A A A A A A cycles	2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operations Mechanical life Electrical life Safety related data	0d according to EN/ISO 13489-1	24V 48V 60V 110V 125V 220V 600V	A A A A A A cycles	2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Operations Mechanical life Electrical life Safety related data	0d according to EN/ISO 13489-1	24V 48V 60V 110V 125V 220V 600V	A A A A A A Cycles cycles	2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Operations Mechanical life Electrical life Safety related data Performance level B1	0d according to EN/ISO 13489-1	24V 48V 60V 110V 125V 220V 600V	A A A A A A cycles	2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Operations Mechanical life Electrical life Safety related data Performance level B1	0d according to EN/ISO 13489-1	24V 48V 60V 110V 125V 220V 600V	A A A A A A Cycles cycles	2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000

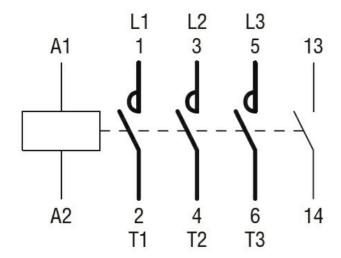




Rated AC voltage at	60Hz		V	575
AC operating voltage				
	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	75
	drap out	max	%Us	115
	drop-out	min	%Us	20
		max	%Us	55
AC average coil con	sumption at 20°C	max	7003	
.c areage com com	of 50/60Hz coil powered at 50Hz			
	от солости ретого и сотти	in-rush	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		3.74	20
		in-rush	VA VA	30
Dissipation at holdin	n <20°C 50Hz	holding	VA W	0.95
Dissipation at holdin Max cycles frequence	_		VV	ບ.ສວ
Mechanical operation	•		cycles/h	3600
Operating times			Oyolco/11	0000
Average time for Us	control			
Ü	in AC			
	Closing NO			
		min	ms	12
		max	ms	21
	Opening NO			
		min	ms	9
	Clasina NC	max	ms	18
	Closing NC	min	ms	17
		max	ms	26
	Opening NC	Пах	1110	20
	oponing ito	min	ms	7
		max	ms	17
	in DC			
	Closing NO			
		min	ms	18
		max	ms	25
	Opening NO			0
		min	ms	2
	Closing NC	max	ms	3
	Closing NC	min	ms	3
		max	ms	5
	Opening NC	IIIdA	1113	•
	Sp39 110	min	ms	11
		max	ms	17
UL technical data				
Full-load current (FL	A) for three-phase AC motor			
		at 480V	Α	7.6
		at 600V	Α	6.1

Contactor  High fault  Short circuit current KA 100 Fuse rating A 30 Fuse class J  Standard fault  Short circuit current KA 5 Fuse class J  Standard fault  Short circuit current Fuse rating A 30 Fuse class J  Contact rating of auxiliary contacts according to UL A600 - Q600 mbient conditions  Emperature  Operating temperature  Operating temperature  Storage temperature  Min °C -50 max °C +70 Storage temperature  Min °C -60 max °C +80 max °C max °C +80 max °C	Vialdad				
110/120V	Y leided mechanical pe				
230V HP 1.5		tor single-phase AC motor			0.5
for three-phase AC motor  200/208V HP 3 460/480V HP 5 575/600V HP 5  Seneral USE  Contactor  AC current A 20  short-circuit protection fuse, 600V High fault  Short circuit current KA 100 Fuse rating A 30 Fuse class J  Standard fault  Short circuit current KA 5 Fuse rating A 30  contact rating of auxiliary contacts according to UL  mblent conditions emperature  Operating temperature  Operating temperature  Thin *C -50 max *C +70  Storage temperature  min *C -60 max *C +80  fax altitude min *C -60 max *C +80 max *C +80  fax altitude min *C -60 max *C +80 max *C +80  fax altitude min *C -60 max *C +80					
200/208V   HP   2   220/230V   HP   3   480/480V   HP   5   575/600V   HP   5			230V	HP	1.5
220/230V		for three-phase AC motor			
A60/480V			200/208V	HP	2
Seneral USE   Contactor   AC current   A   20			220/230V	HP	3
Contactor  AC current A 20  Short-circuit protection fuse, 600V High fault  Short circuit current Fuse rating A 30 Fuse class J  Standard fault  Short circuit current KA 100 Fuse rating A 30 Fuse class J  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary contacts according to UL Indient conditions  Contact rating of auxiliary and a 30  A600 - Q600  Indient conditions  Contact rating of auxiliary and a 30  A600 - Q600  Indient conditions  Contact rating of auxiliary and a 30  A600 - Q600  Indient conditions  Contact rating of auxiliary and a 30  A600 - Q600  Indient conditions  Contact rating of auxiliary and a 30  A600 - Q600  Indient conditions  Contact rating of auxiliary and a 30  Indient conditions  Contact rating of auxiliary and a 30  Indient conditions  Contact rating of auxiliary and a 30  Indient conditions  Contact rating of auxiliary and a 30  Indient conditions  Contact ratin			460/480V	HP	5
Contactor  High fault  Short circuit current KA 100 Fuse rating A 30 Fuse class J  Standard fault  Short circuit current KA 5 Fuse class J  Standard fault  Short circuit current Fuse rating A 30 Fuse class J  Contact rating of auxiliary contacts according to UL A600 - Q600 mbient conditions  Emperature  Operating temperature  Operating temperature  Storage temperature  Min °C -50 max °C +70 Storage temperature  Min °C -60 max °C +80 max °C max °C +80 max °C			575/600V	HP	5
AC current A 20  whort-circuit protection fuse, 600V High fault  Short circuit current KA 100 Fuse rating A 30 Fuse class J  Standard fault  Short circuit current KA 5 Fuse rating A 30 Fuse rating of auxiliary contacts according to UL  mbient conditions  emperature  Operating temperature  Min °C -50 max °C +70  Storage temperature  min °C -60 max °C +80  Max altitude  max °C +80  Max altitude  Storage temperature  Max altitude  Max	General USE				
AC current A 20  whort-circuit protection fuse, 600V High fault  Short circuit current KA 100 Fuse rating A 30 Fuse class J  Standard fault  Short circuit current KA 5 Fuse rating A 30 Fuse rating of auxiliary contacts according to UL  mbient conditions  emperature  Operating temperature  Min °C -50 max °C +70  Storage temperature  min °C -60 max °C +80  Max altitude  max °C +80  Max altitude  Storage temperature  Max altitude  Max		Contactor			
Short-circuit protection fuse, 600V High fault  Short circuit current kA 100 Fuse rating A 30 Fuse class J  Standard fault  Short circuit current kA 5 Fuse rating A 30  Contact rating of auxiliary contacts according to UL Imbient conditions  emperature  Operating temperature  Operating temperature  Min °C -50 max °C +70  Storage temperature  Max altitude  m 3000  desistance & Protection  Fuse rating A 30  A600 - Q600  Max altitude  min °C -60 max °C +80  Max altitude  m 3000  desistance & Protection  Fuse rating A 30  A600 - Q600  A			AC current	Α	20
High fault  Short circuit current KA 100 Fuse rating A 30 Fuse class J  Standard fault  Short circuit current KA 5 Fuse rating A 30 Fuse ratin	Short-circuit protection	n fuse 600V	,		
Short circuit current kA 100 Fuse rating A 30 Fuse class J  Standard fault  Short circuit current kA 5 Fuse rating A 30 Fuse class J  Standard fault  Short circuit current kA 5 Fuse rating A 30  Contact rating of auxiliary contacts according to UL Imbient conditions  Emperature  Operating temperature  Operating temperature  Min °C -50 max °C +70  Storage temperature  min °C -60 max °C +80  Axa altitude  Exercise Protection  Follution degree  Total Contact rating of auxiliary contacts according to UL Imbient conditions  The protection of the prote	Short direatt protection				
Standard fault  Short circuit current kA 5 Fuse rating A 30 Fuse rating A 30 Fuse class J  Standard fault  Short circuit current kA 5 Fuse rating A 30 Fuse rat		i ligit lault	Short circuit current	L۸	100
Standard fault  Short circuit current kA 5 Fuse rating A 30  Contact rating of auxiliary contacts according to UL mblent conditions  remperature  Operating temperature  Min °C -50 max °C +70  Storage temperature  Max altitude min °C -60 max °C +80  Max altitude min °C -60  Max of the conditions of t					
Standard fault  Short circuit current Fuse rating A 30  Contact rating of auxiliary contacts according to UL Machine Indicate Ind			<del>_</del>	A	
Short circuit current KA 5 Fuse rating A 30  contact rating of auxiliary contacts according to UL mbient conditions  remperature  Operating temperature  Min °C -50 max °C +70  Storage temperature  min °C -60 max °C +80  As altitude max °C +80  As altitude max °C +80  Cesistance & Protection  rollution degree 3  Signature  Operating temperature  Min °C -60 max °C +80  As altitude max °C -80  Cesistance & Protection  rollution degree 3  Operating temperature		01	Fuse class		J
Contact rating of auxiliary contacts according to UL mbient conditions  emperature  Operating temperature  Min °C -50 max °C +70  Storage temperature  Min °C -60 max °C +80  As altitude  Max altitude  Collution degree  Soliution		Standard fault			_
Contact rating of auxiliary contacts according to UL  Imbient conditions  Temperature  Operating temperature  Operating temperature  Imin °C -50 Imax °C +70  Storage temperature  Imin °C -60 Imax °C +80  Imax °C +					
Operating temperature  Operating temperature  min °C -50 max °C +70  Storage temperature  min °C -60 max °C +80  At a altitude  min °C -60 max °C +80  At a lititude  cesistance & Protection  collution degree  3  Output  Ou			Fuse rating	A	
Operating temperature    Min		ary contacts according to UL			A600 - Q600
Operating temperature  min °C -50 max °C +70  Storage temperature  min °C -60 max °C +80  Ax altitude m 3000  Resistance & Protection  collution degree  3  Dimensions  144 173 1017 1017 1017 1017 1017 1017 1017					
min °C -50 max °C +70     Storage temperature   min °C -60 max °C +80     Max altitude   m 3000     Cesistance & Protection     Collution degree   3     College   3     Co	Temperature				
Max o C +70     Storage temperature   min o C -60     max o C +80     Max altitude   m 3000     Cesistance & Protection     Collution degree   3     Collution degree		Operating temperature			
Storage temperature    min			min	°C	-50
min °C -60 max °C +80  Max altitude m 3000  Resistance & Protection  Pollution degree 3  Simensions  144  0.17  0.17  0.33  0.34  0.35  0.			max	°C	+70
min °C -60 max °C +80  Max altitude m 3000  Resistance & Protection  Pollution degree 3  Simensions  144  0.17  0.17  0.33  0.34  0.35  0.		Storage temperature			
Max altitude m 3000  Resistance & Protection  collution degree 3  collutions  44  (1.73")  (0.33")		· ·	min	°C	-60
Max altitude m 3000  Resistance & Protection  Collution degree 3  Collution s  A4.4					
Resistance & Protection  collution degree  3  3  44  44  (0.17")  (0.38")  (0.33")  (0.33")  (0.33")  (0.33")  3  3  3  44  (1.73")  (0.38")  (1.37")  (0.38")  (0.38")  (0.38")  (0.38")	Max altitude				
Vollution degree  Dimensions  3  4.4  (1.73")  (0.33")		nn -			0000
Dimensions  4.4  (1.73")  (0.17")  (0.33")  (0.33")  (0.33")  (0.33")  (0.33")  (0.33")  (0.33")  (0.33")  (0.33")  (0.33")  (0.33")  (0.33")  (0.33")  (0.33")  (0.33")  (0.33")  (0.33")		511			3
4.4 (1.73") (2.24") (2.24") (2.33") (3.33") (0					3
4.4 (2.24") (2.24") (3.33") (0.33")					
$(0.33^{\circ})$ $(1.73^{\circ})$ $(3.51^{\circ})$	4.4 (0.17")	24.9	3.2 (0.12°	(2.28") 5	RF9
Viring diagrams			(1.73")	8	(3.51")
	Wiring diagrams				





#### 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