





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	A	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)		A	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
	690V	A	72
Posietaneo por polo (avorago valuo)	090 v		
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	Ith	W	4
	AC-3	W	0.81
Tightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	Ibin	9
Tightening torque for coil terminal	11107		-
Tighterning torque for conficilitial	min	Nm	0.8
	min		
	max	Nm	1
	min	lbin	9



		max	Ibin	9
	simultaneously connectable		Nr.	2
Conductor section	AMO #4			
	AWG/Kcmil			40
	Flavible w/e lue conductor continu	max		12
	Flexible w/o lug conductor section	min	mama ²	0.75
		min	mm² mm²	0.75 2.5
	Flexible c/w lug conductor section	max	111111	2.0
	r lexible of windy conductor section	min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section		111111	2.0
	Trexible with insulated space rag solidation section	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	180
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact char	acteristics			
Thermal current Ith			A	10
IEC/EN 60947-5-1 de	•			A600 - Q600
Operating current AC	15			
		230V	A	3
			Α	1.9
		400V		
0	40	500V	Α	1.4
Operating current DC	12	500V	Α	1.4
Operating current DC Operating current DC		500V 110V	A A	2.9
		500V 110V 24V	A A	1.4 2.9 2.9
		500V 110V 24V 48V	A A A	1.4 2.9 2.9 1.4
		500V 110V 24V 48V 60V	A A A A	1.4 2.9 2.9 1.4 1.2
		500V 110V 24V 48V 60V 110V	A A A A A	1.4 2.9 2.9 1.4 1.2 0.6
		500V 110V 24V 48V 60V 110V 125V	A A A A A A	1.4 2.9 2.9 1.4 1.2 0.6 0.55
		500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3
Operating current DC		500V 110V 24V 48V 60V 110V 125V	A A A A A A	1.4 2.9 2.9 1.4 1.2 0.6 0.55
		500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current DC		500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A Cycles	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current DC Operations Mechanical life Electrical life		500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current DC Operations Mechanical life Electrical life Safety related data	13	500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A Cycles	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current DC Operations Mechanical life Electrical life Safety related data		500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A Cycles cycles	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current DC Operations Mechanical life Electrical life Safety related data	10d according to EN/ISO 13489-1	500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A Cycles cycles	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B1	10d according to EN/ISO 13489-1	500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles cycles	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 20000000
Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B1	10d according to EN/ISO 13489-1	500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A Cycles cycles	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000





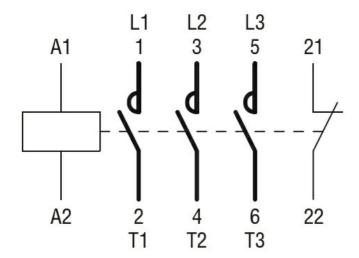
Rated AC voltage at	60Hz			V	48
AC operating voltag	Э				
	of 60Hz coil powe				
		pick-up		0/11-	75
			min	%Us	75 445
		drop-out	max	%Us	115
		drop out	min	%Us	20
			max	%Us	55
AC average coil cor	sumption at 20°C				
_	of 50/60Hz coil po	owered at 50Hz			
			in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil po	owered at 60Hz			
			in-rush	VA	25
	of COLL= asil name	and at COLL	holding	VA	3
	of 60Hz coil powe	reu at ounz	in-rush	VA	30
			holding	VA VA	4
Dissipation at holdir	 a ≤20°C 50Hz		Holding	W	0.95
Max cycles frequent					0.00
Mechanical operation	•			cycles/h	3600
Operating times				·	
Average time for Us	control				
	in AC				
		Closing NO	_		
			min	ms	12
		Opening NO	max	ms	21
		Opening NO	min	ms	9
			max	ms	18
		Closing NC			. •
		3	min	ms	17
			max	ms	26
		Opening NC			
			min	ms	7
			max	ms	17
	in DC	Olasia - NO			
		Closing NO	min	me	18
			max	ms ms	25
		Opening NO	IIIax	1113	25
			min	ms	2
			max	ms	3
		Closing NC			
			min	ms	3
			max	ms	5
		Opening NC			
		5 p 2 m	,		4.4
		o p o mig i i o	min	ms	11
III tochnical data			min max	ms ms	11 17
	A) for three-phase AC				
UL technical data Full-load current (FL	A) for three-phase AC				



Yielded mechanica					
	for single-phase AC motor				
		110/120V	HP	0.5	
		230V	HP	1.5	
	for three-phase AC motor				
	Tot under phase 7 to motor	200/208V	HP	2	
		220/230V	HP	3	
		460/480V	HP	5	
		575/600V	HP	5	
General USE					
	Contactor				
		AC current	Α	20	
Chart aircuit protos	ation fugo. 600\/	710 danone			
Short-circuit protec					
	High fault				
		Short circuit current	kA	100	
		Fuse rating	Α	30	
		Fuse class		J	
	Standard fault				
	3-2	Short circuit current	kA	5	
		Fuse rating	A	30	
		_	^		
		Fuse class		RK5	
	uxiliary contacts according to UL			A600 -	Q600
Ambient conditions	3				
Temperature					
	Operating temperature				
	3 1	min	°C	-50	
		max	°C	+70	
	04	IIIdx		+10	
	Storage temperature		0.0	00	
		min	°C	-60	
		max	°C	+80	
Max altitude			m	3000	
Resistance & Prote	ection				
Pollution degree				3	
Dimensions					
(1.73") 44	1.4 (17")	(1.73") O ^N .6	_	57	
(0.17")	(2 24")	(1.73)	(2	57 .24")	
4	2.24)		3		
* * * *		0.000			
	(1.97") 58 (2.28")		(2.28"		
*******			6		
0 H H O	و ا	\$.E. O # # O C C C C		/ \	 \$
(0.33") (0.3	7 - 34.9 - 18") (1.37")	3.2. (1.37") (0.12"	7	RF9	
8.5 (0.33")	(1.57)	(0.12	'	_	
(0.33")			~	80.2	7.6 (0.30")
8.5 (0.33")		(1.73")	-	89.2 (3.51")	(0.30")
Wiring diagrams					

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 60HZ, 48VAC, 1NC 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