





Product designation			Power contactor
Product type designation			BGF09
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)	A	20
	AC-1 (≤55°C)	Α	18
	AC-1 (≤70°C)	Α	15
	AC-3 (≤440V ≤55°C)	A	9
D. (AC-4 (400V)	Α	4
Rated operational power AC-3 (T≤55°C)	0001/	1-147	0.0
	230V	kW	2.2
	400V	kW	4
	415V	kW	4.3
	440V	kW	4.5
	500V	kW	5 5
Rated operational power AC-1 (T≤40°C)	690V	kW	<u> </u>
Rated operational power AC-1 (1540 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	000 V	1000	
TEO Max danion to in Bot with Effe Time with 1 polos 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			
The max surrent to in 8 co 8 co man 2/10 - rome man 1 person in consc	≤24V	Α	7
	48V	A	6
	75V	A	2
	110V	A	1
	220V	A	
IEC may current to in DC2 DC5 with L/D < 15mg with 2 males in series	220 V		
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	2041 /	۸	0
	≤24V	A	8
	48V	A	8
	75V	Α	5
	110V	Α	4
	220V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	Α	10
	48V	Α	10
	75V	Α	6
	110V	Α	5
	220V	Α	0,8
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	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)	u (0)	A	92
Breaking capacity at voltage			
Disaming supusity at rollage	440V	Α	72
	500V	A	72 72
	690V	A	72 72
Resistance per pole (average value)	0907	mΩ	10
		11177	10
Power dissipation per pole (average value)	14L	147	4
	Ith	W	4
The first of the state of the s	AC-3	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
	max	lbin	9



Manager of colors	electric and a second state in		N I	0
Conductor section	simultaneously connectable		Nr.	2
Conductor Section	AWG/Kcmil			
	AVVO/Remiii	max		12
	Flexible w/o lug conductor section	max		12
	1 loxible w/o lag colladotel cocileil	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
•	ction according to IEC/EN 60529			IP20 when 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 : 11		max		12
Auxiliary contact char	acteristics		۸	10
Thermal current Ith IEC/EN 60947-5-1 de	ocianation		Α	10 A600 - Q600
Operating current AC	-			A000 - Q000
operating current Ao	10	230V	Α	3
		400V	A	1.9
		500V	Α	1.4
Operating current DC	12			
		110V	Α	2.9
Operating current DC	13			
		24V	Α	2.9
		48V	Α	1.4
		60V	Α	1.1
		125V	Α	0.3
		220V	A	0.1
Operations		600V	Α	0.6
Operations Mechanical life			cycles	20000000
Electrical life			cycles cycles	500000
Safety related data			Cycles	300000
	10d according to EN/ISO 13489-1			
		rated load	cycles	500000
	m	echanical load	cycles	20000000
Mirror contats accord	ing to IEC/EN 609474-4-1		-	yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 5	50/60Hz		V	24
AC operating voltage				





	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	75
		max	%Us	115
	drop-out			
		min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
		max	%Us	115
	drop-out			
	·	min	%Us	20
		max	%Us	55
AC average coil consu	mption at 20°C			
	of 50/60Hz coil powered at 50Hz			
	2. 2.5, 202 25 ponorou at 001/2	in-rush	VA	30
		holding	VA	4
	of 50/60Hz coil powered at 60Hz	riolality	V/ \	•
	of 50/001 12 con powered at our 12	in-rush	VA	25
		holding	VA	3
	of 60Hz coil powered at 60Hz	Holding	V/\	<u> </u>
	of our 12 coil powered at our 12	in-rush	VA	30
			VA VA	4
Dissipation at halding	200°C EOLI-	holding	W	
Dissipation at holding ≤	20 C 50H2		VV	0.95
Max cycles frequency Mechanical operation				
Mechanical oberation			a, , a l a a /la	2000
-			cycles/h	3600
Operating times	ntrol		cycles/h	3600
-			cycles/h	3600
Operating times	in AC		cycles/h	3600
Operating times				
Operating times	in AC	min	ms	12
Operating times	in AC Closing NO	min max		
Operating times	in AC	max	ms ms	12 21
Operating times	in AC Closing NO	max min	ms ms	12 21 9
Operating times	in AC Closing NO Opening NO	max	ms ms	12 21
Operating times	in AC Closing NO	max min max	ms ms ms	12 21 9 18
Operating times	in AC Closing NO Opening NO	max min max min	ms ms ms ms	12 21 9 18
Operating times	in AC Closing NO Opening NO Closing NC	max min max	ms ms ms	12 21 9 18
Operating times	in AC Closing NO Opening NO	max min max min max	ms ms ms ms	12 21 9 18 17 26
Operating times	in AC Closing NO Opening NO Closing NC	max min max min max min	ms ms ms ms ms	12 21 9 18 17 26
Operating times	in AC Closing NO Opening NO Closing NC Opening NC	max min max min max	ms ms ms ms	12 21 9 18 17 26
Operating times	in AC Closing NO Opening NO Closing NC Opening NC	max min max min max min	ms ms ms ms ms	12 21 9 18 17 26
Operating times	in AC Closing NO Opening NO Closing NC Opening NC	max min max min max min max min max	ms ms ms ms ms ms	12 21 9 18 17 26 7
Operating times	in AC Closing NO Opening NO Closing NC Opening NC	max min max min max min max min max	ms ms ms ms ms ms	12 21 9 18 17 26 7 17
Operating times	in AC Closing NO Opening NO Closing NC Opening NC In DC Closing NO	max min max min max min max min max	ms ms ms ms ms ms	12 21 9 18 17 26 7
Operating times	in AC Closing NO Opening NO Closing NC Opening NC	max min max min max min max min max	ms ms ms ms ms ms	12 21 9 18 17 26 7 17
Operating times	in AC Closing NO Opening NO Closing NC Opening NC In DC Closing NO	max min max min max min max min max	ms ms ms ms ms ms	12 21 9 18 17 26 7 17
Operating times	in AC Closing NO Opening NO Closing NC Opening NC in DC Closing NO Opening NO	max min max min max min max min max	ms ms ms ms ms ms	12 21 9 18 17 26 7 17
Operating times	in AC Closing NO Opening NO Closing NC Opening NC In DC Closing NO	min max	ms ms ms ms ms ms	12 21 9 18 17 26 7 17
Operating times	in AC Closing NO Opening NO Closing NC Opening NC in DC Closing NO Opening NO	min max	ms ms ms ms ms ms	12 21 9 18 17 26 7 17
Operating times	in AC Closing NO Opening NO Closing NC Opening NC in DC Closing NO Opening NO	min max	ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17
Operating times	in AC Closing NO Opening NO Closing NC Opening NC in DC Closing NO Opening NO	min max	ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17
Operating times	in AC Closing NO Opening NO Closing NC Opening NC In DC Closing NO Opening NO Closing NO Closing NO	min max	ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17

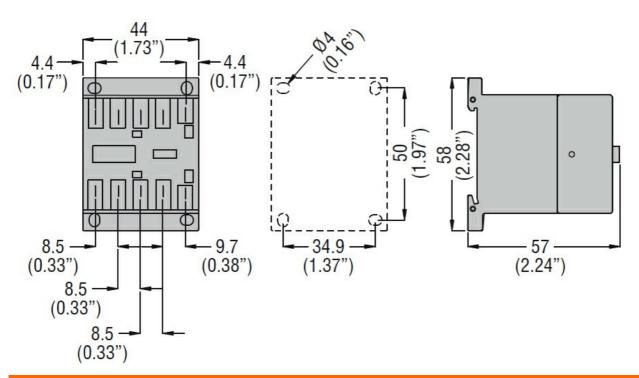




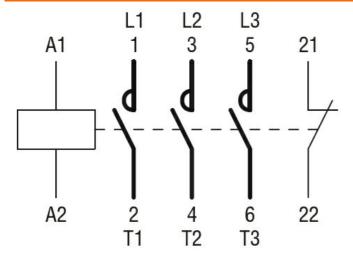
		max	ms	17
UL technical data				
Full-load current (FLA)	for three-phase AC motor			
		at 480V	Α	7.6
		at 600V	Α	6.1
Yielded mechanical per	formance			
	for single-phase AC motor			
		110/120V	HP	0.5
		230V	HP	1.5
	for three-phase AC motor			
		200/208V	HP	2
		220/230V	HP	3
		460/480V	HP	5
		575/600V	HP	5
General USE				
	Contactor			
		AC current	Α	20
Short-circuit protection	fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	Α	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	30
	ry contacts according to UL			A600 - Q600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protection				
Pollution degree				3
Dimensions				

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 24VAC, 1NC AUXILIARY CONTACT, FASTON TERMINALS



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