



Product designation			Power contactor
Product type designation			BGF09
Contact characteristics			DOI 09
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	690
		kV	6
Rated impulse withstand voltage Uimp		KV	0
Operational frequency	•.		0.5
	min	Hz	25
1500	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-1 (T≤40°C)			
	230V	kW	8
	400V	kW	14
	500V	kW	16
	690V	kW	22
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	Α	12
	48V	Α	10
	75V	Α	4
	110V	Α	3
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	Α	15
	48V	Α	14
	75V	Α	9
	110V	Α	8
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
·	≤24V	Α	16
	48V	Α	16
	75V	Α	10
	110V	Α	10
	220V	Α	2
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	16
	48V	A	16
	75V	A	10
	110V	A	10
	220V	Α	2
	220 V	, ,	-



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	· _
IFC may current le in [DC3-DC5 with L/R ≤ 15ms with 2 poles in series	220 V	71	
ILO IIIAX CUITEIILIE III L	DC3-DC3 with E/IX = 1311/3 with 2 poles in series	-21 1/	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	A	5
		220V	A	0,8
IEC may aurrent to in I	DC2 DC5 with L/B < 15mg with 1 males in series	ZZUV	^	0,0
IEC IIIax cuitent le In L	DC3-DC5 with L/R ≤ 15ms with 4 poles in series	-0.41	Δ.	4.0
		≤24V	Α	10
		48V	Α	10
		75V	Α	6
		110V	Α	5
		220V	Α	0,8
Short-time allowable c	urrent for 10s (IEC/EN60947-1)		Α	96
Protection fuse	,			
		gG (IEC)	Α	20
		aM (IEC)	A	10
Making consoits (DMC		aivi (IEC)		
Making capacity (RMS			Α	92
Breaking capacity at vo	oltage			
		440V	Α	72
		500V	Α	72
		690V	Α	72
Resistance per pole (a	verage value)		mΩ	10
Power dissipation per p				
' '	,	lth	W	4
		AC-3	W	0.81
Tightening torque for to	orminale	7.0 0		0.01
riginioning torque for te	Sittinials	:	Nima	0.0
		min	Nm	0.8
		max	Nm	1
		min	Ibin	9
		max	Ibin	9
Tightening torque for c	oil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	9
		max	lbin	9
Max number of wires s	imultaneously connectable		Nr.	2
Conductor section				<u>-</u>
CONTRACTOR SECTION	AMC/Kamil			
	AWG/Kcmil			4.0
		max		12
	Flexible w/o lug conductor section			
		min	mm²	0.75





FOUR-POLE CONTACTOR, DC COIL, 125VDC, FASTON TERMINALS

	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		4.5
	min	mm² mm²	1.5 2.5
_	max	HIHI	IP20 when
Power terminal protect	tion according to IEC/EN 60529		properly wired
Mechanical features			propony mied
Operating position			
	normal		Vertical plan
	allowable		±30°
Eiving			Screw / DIN rail
Fixing			35mm
Weight		g	210
Auxiliary contact chara	cteristics		
Thermal current Ith		Α	10
IEC/EN 60947-5-1 des	signation		Q600
Operations			
Mechanical life		cycles	2000000
Electrical life		cycles	500000
Safety related data	L		
Performance level B10	Od according to EN/ISO 13489-1		500000
	rated load	cycles	500000
TMC sommatibility	mechanical load	cycles	20000000
EMC compatibility DC coil operating			yes
DC rated control voltage		V	125
DC operating voltage	95	V	123
DC operating voltage	pick-up		
	min min	%Us	75
	max	%Us	115
	drop-out max	7000	110
	min	%Us	10
	max	%Us	25
Average coil consump			
<u> </u>	in-rush	W	3.2
	holding	W	3.2
Max cycles frequency			
Mechanical operation		cycles/h	3600
Operating times			
Average time for Us co			
	in AC		
	Closing NO		
	min	ms	12
	max	ms	21
	Opening NO		
	min	ms	9
	Clasing NC	ms	18
	Closing NC		4.7
	min	ms ms	17 26
	max Opening NC	ms	۷۵
	Opening NC		

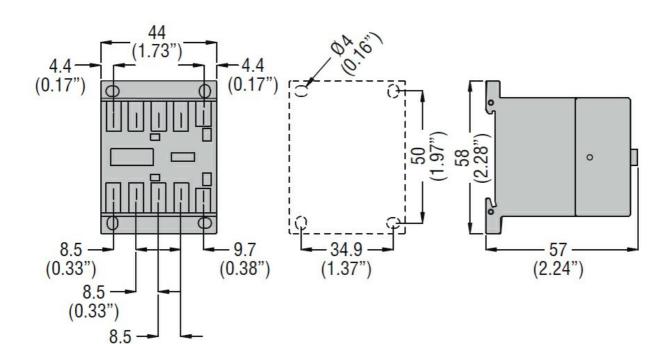






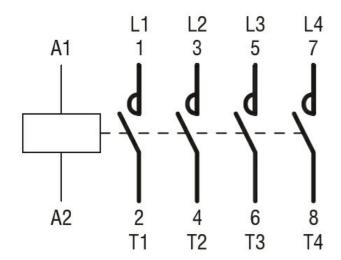
				7
		min	ms	7
	. 50	max	ms	17
	in DC			
	Closing NO			4.0
		min	ms	18
	0 1 10	max	ms	25
	Opening NO			•
		min	ms	2
	Olasia NO	max	ms	3
	Closing NC			•
		min	ms	3
	On anima NO	max	ms	5
	Opening NC			44
		min	ms	11
III. ta abada al alata		max	ms	17
UL technical data	ana AC (III)		\/	000
Rated operational volta			V	600
Full-load current (FLA)	for three-phase AC motor			7.0
		at 480V	Α	7.6
		at 600V	Α	6.1
Yielded mechanical pe				
	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	A	20
Short-circuit protection				
	High fault			
		Short circuit current	kA	100
		Fuse rating	Α	30
		Fuse class		J
	Standard fault			_
		Short circuit current	kA	5
A 11 / 12		Fuse rating	Α	30
Ambient conditions				
Temperature				
	Operating temperature	_	2.5	
		min	°C	-50
		max	°C	+70
	Storage temperature	_	2.5	
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protection	on			
Pollution degree				3
Dimensions				





Wiring diagrams

(0.33")



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