



Product designation Power contactor Product type designation BGF09 Contact characteristics 4 Nr. Number of poles Rated insulation voltage Ui IEC/EN ٧ 690 k√ Rated impulse withstand voltage Uimp 6 Operational frequency min Ηъ 25 max Hz 400 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-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 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 Α 220V 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 2



ENERGY AND AUTOMATION

IEC max current le in l	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 l	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 l	DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	2 00 2 00 mm 2/10 = 10 mm 0 poiso m 00 mo	≤24V	Α	10
		48V	A	10
		75V	A	6
		110V	A	5
		220V	A	0,8
IEC may ourrent to in t	DC3-DC5 with L/R ≤ 15ms with 4 poles in series	220 V		0,0
iec max current le in i	DC3-DC5 with L/R \square 15ms with 4 poles in series	~24) /	۸	4.0
		≤24V	A	10
		48V	A	10
		75V	A	6
		110V	A	5
	(-0.7)	220V	Α	0,8
	eurrent 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 vo	oltage			
		440V	Α	72
		500V	Α	72
		690V	Α	72
Resistance per pole (a	average value)		mΩ	10
Power dissipation per				
	para (an arage rama)	Ith	W	4
		AC-3	W	0.81
Tightening torque for to	erminals	7.0 0	**	0.01
riginorning torque for t	ommaio	min	Nm	0.8
			Nm	
		max		1
		min	lbin Ibin	9
Tightoning torque for a	sail tarminal	max	Ibin	9
Tightening torque for o	con terminal			0.0
		min	Nm	0.8
		max	Nm	1
		min	lbin	9
		max	Ibin	9
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
	. <u></u>	max		12
	Flexible w/o lug conductor section			
		min	mm²	0.75





		max	mm²	2.5
	Flexible c/w lug conductor section	шах	111111	2.5
	Tronible of a ray contactor coolien	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 protect	tion according to IEC/EN 60529			IP20 when properly wired
Mechanical features				property whea
Operating position				
1 01	nc	rmal		Vertical plan
	allow	able		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	180
Auxiliary contact chara	cteristics			
Thermal current Ith			Α	10
IEC/EN 60947-5-1 des	signation			A600
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data				
Performance level B10	Od according to EN/ISO 13489-1			
	rated mechanical		cycles cycles	500000 20000000
EMC compatibility				yes
AC coil operating				·
Rated AC voltage at 60)Hz		V	48
AC operating voltage				
	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	75
		max	%Us	115
	drop-out		0/11-	00
		min	%Us	20
AC average sail sersor	montion at 20°C	max	%Us	55
AC average coil consu	of 50/60Hz coil powered at 50Hz			
	•	-rush	VA	30
		lding	VA VA	4
	of 50/60Hz coil powered at 60Hz		٧/١	•
	•	-rush	VA	25
		lding	VA	3
	of 60Hz coil powered at 60Hz	3		
	•	-rush	VA	30
		lding	VA	4
Dissipation at holding			W	0.95
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us co	ontrol			
	in AC			

in AC

Closing NO





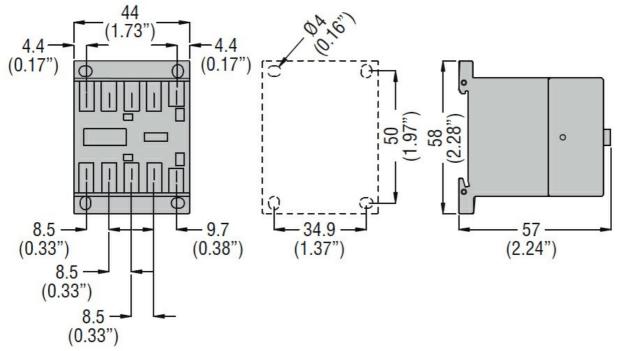
FOUR-POLE CONTACTOR, AC COIL 60HZ, 48VAC, FASTON TERMINALS

			min	ms	12	
		Opening NO	max	ms	21	
		Opening NO	min	ms	9	
			max	ms	18	
		Closing NC	THE CONTRACTOR OF THE CONTRACT		. 0	
		9	min	ms	17	
			max	ms	26	
		Opening NC				
			min	ms	7	
	-		max	ms	17	
	in DC					
		Closing NO				
			min	ms	18	
		On anin a NO	max	ms	25	
		Opening NO	min	mo	2	
			min max	ms ms	2	
		Closing NC	Παλ	1113	3	
		Closing 140	min	ms	3	
			max	ms	5	
		Opening NC				
		1 0	min	ms	11	
			max	ms	17	
UL technical data						
Rated operational volta				V	600	
Full-load current (FLA)	for three-phase AC mot	or				
			at 480V	Α	7.6	
Valle Lander de de la company			at 600V	Α	6.1	
Yielded mechanical per	rformance					
	f = 0 = 1 = 0 = 0 = 0 = 0 = 0	-4				
	for single-phase AC m	otor	110/120\/	UD	0.5	
	for single-phase AC m	otor	110/120V	HP HD	0.5	
			110/120V 230V	HP HP	0.5 1.5	
	for single-phase AC m		230V	HP	1.5	
			230V 200/208V	HP HP	2	
			230V 200/208V 220/230V	HP HP HP	1.5 2 3	
			230V 200/208V	HP HP	2	
General USE			230V 200/208V 220/230V 460/480V	HP HP HP	1.5 2 3 5	
General USE			230V 200/208V 220/230V 460/480V	HP HP HP	1.5 2 3 5	
General USE	for three-phase AC mo		230V 200/208V 220/230V 460/480V	HP HP HP	1.5 2 3 5	
General USE Short-circuit protection	for three-phase AC mo		230V 200/208V 220/230V 460/480V 575/600V	HP HP HP HP	1.5 2 3 5 5	_
	for three-phase AC mo		230V 200/208V 220/230V 460/480V 575/600V AC current	HP HP HP HP	1.5 2 3 5 5 20	
	for three-phase AC mo		230V 200/208V 220/230V 460/480V 575/600V AC current	HP HP HP HP	1.5 2 3 5 5 5	
	for three-phase AC mo		230V 200/208V 220/230V 460/480V 575/600V AC current Short circuit current Fuse rating	HP HP HP HP	1.5 2 3 5 5 5 20	
	for three-phase AC mo Contactor fuse, 600V High fault		230V 200/208V 220/230V 460/480V 575/600V AC current	HP HP HP HP	1.5 2 3 5 5 5	
	for three-phase AC mo		230V 200/208V 220/230V 460/480V 575/600V AC current Short circuit current Fuse rating Fuse class	HP HP HP HP	1.5 2 3 5 5 5 20 100 30 J	
	for three-phase AC mo Contactor fuse, 600V High fault		230V 200/208V 220/230V 460/480V 575/600V AC current Short circuit current Fuse rating Fuse class Short circuit current	HP HP HP HP A kA	1.5 2 3 5 5 5 20 100 30 J	
Short-circuit protection	for three-phase AC mo Contactor fuse, 600V High fault		230V 200/208V 220/230V 460/480V 575/600V AC current Short circuit current Fuse rating Fuse class	HP HP HP HP	1.5 2 3 5 5 5 20 100 30 J	_
Short-circuit protection Ambient conditions	for three-phase AC mo Contactor fuse, 600V High fault		230V 200/208V 220/230V 460/480V 575/600V AC current Short circuit current Fuse rating Fuse class Short circuit current	HP HP HP HP A kA	1.5 2 3 5 5 5 20 100 30 J	
Short-circuit protection	for three-phase AC mo	otor	230V 200/208V 220/230V 460/480V 575/600V AC current Short circuit current Fuse rating Fuse class Short circuit current	HP HP HP HP A kA	1.5 2 3 5 5 5 20 100 30 J	
Short-circuit protection Ambient conditions	for three-phase AC mo Contactor fuse, 600V High fault	otor	230V 200/208V 220/230V 460/480V 575/600V AC current Fuse rating Fuse class Short circuit current Fuse rating Fuse rating	HP HP HP HP A kA A	1.5 2 3 5 5 20 100 30 J	
Short-circuit protection Ambient conditions	for three-phase AC mo	otor	230V 200/208V 220/230V 460/480V 575/600V AC current Short circuit current Fuse rating Fuse class Short circuit current	HP HP HP HP A kA	1.5 2 3 5 5 5 20 100 30 J	

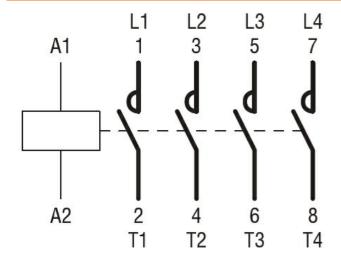


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Storage temperature				
	min	°C	-60	
	max	°C	+80	
Max altitude		m	3000	
Resistance & Protection				
Pollution degree			3	

Dilliensions



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



11BGF09T4A04860

FOUR-POLE CONTACTOR, AC COIL 60HZ, 48VAC, FASTON TERMINALS

CCC			
cULus			
EAC			

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching