

ENERGY AND AUTOMATION



Product designation Product type designation			Power contactor 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)	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
150	690V	kW	22
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	-0.43.4		
	≤24V	A	12
	48V	A	10
	75V	A	4
	110V	A	3
IFO	220V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	20.4V	۸	4.5
	≤24V	A	15
	48V	A	14
	75V 110V	A A	9 8
	220V		
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	ZZUV	Α	
TEC max current le in DC i with E/N = mis with 3 poles in series	<241/	۸	16
	≤24V 48V	A	16 16
	48 V 75 V	A A	16 10
	110V	A	10
	220V	A	2
	2200		



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 60VDC, 1NC AUXILIARY CONTACT, FASTON TERMINALS

IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series ≤24V Α 16 Α 48V 16 75V Α 10 110V 10 Α 220V 2 IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series ≤24V 7 Α 48V Α 6 75V 2 Α 110V 1 Α 220V Α IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series ≤24V 8 Α 48V Α 8 75V 5 Α 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 6 Α 110V 5 Α 220V 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 5 110V Α 220V Α 0,8 Short-time allowable current for 10s (IEC/EN60947-1) 96 Protection fuse gG (IEC) Α 20 aM (IEC) Α 10 Making capacity (RMS value) Α 92 Breaking capacity at voltage 440V Α 72 72 500V Α 690V Α 72 Resistance per pole (average value) $m\Omega$ 10 Power dissipation per pole (average value) Ith W 4 AC-3 W 0.81 Tightening torque for terminals 0.8 min Nm Nm 1 max 9 min lbin Ibin 9 max Tightening torque for coil terminal min Nm 0.8 Nm 1 max min Ibin 9 max Ibin 9



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May number of wires	cincultana a cual y a cana a stala la		Nla	
Max number of wires : Conductor section	simultaneously connectable		Nr.	2
Conductor Section	AWG/Kcmil			
	AWO/Normi	max		12
	Flexible w/o lug conductor section	max		
	c	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	224
Conductor section				
	AWG/kcmil conductor section			40
Augustian capata at alagu		max		12
Auxiliary contact chara Thermal current Ith	acteristics		Α	10
IEC/EN 60947-5-1 de	signation			A600 - Q600
Operating current AC	-			71000 0000
operating earnering to	.•	230V	Α	3
		400V	Α	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	A	0.3
		220V 600V	A	0.1 0.6
Operations		V UU 0	A	0.0
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data			,	
	0d according to EN/ISO 13489-1			
		rated load	cycles	500000
		mechanical load	cycles	20000000
	ing to IEC/EN 609474-4-1			yes
EMC compatibility				yes
DC coil operating				
DC rated control volta	ge		V	60
DC operating voltage				



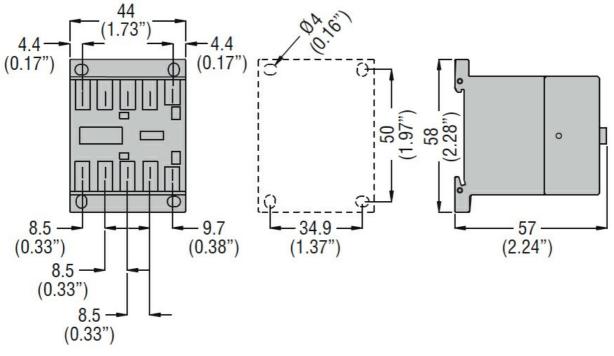
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	pick-up			0/11	
			min	%Us	75
	duan aut		max	%Us	115
	drop-out		min	%Us	10
			max	%Us	25
Average coil consumpt	ion <20°C		Παλ	7003	
7 Wordgo don dondampt			in-rush	W	3.2
			holding	W	3.2
Max cycles frequency			e.ag		3.2
Mechanical operation				cycles/h	3600
Operating times				,	
Average time for Us co	ntrol				
-	in AC				
		Closing NO			
			min	ms	12
			max	ms	21
		Opening NO			
			min	ms	9
			max	ms	18
		Closing NC			4-
			min	ms	17
		Opening NC	max	ms	26
		Opening NC	min	ms	7
			max	ms	, 17
	in DC		Παλ	1113	17
	111 20	Closing NO			
		5.55g . 15	min	ms	18
			max	ms	25
		Opening NO			
		-	min	ms	2
			max	ms	3
		Closing NC			
			min	ms	3
			max	ms	5
		Opening NC			44
			min	ms	11
UL technical data			max	ms	17
	for three-phase AC mot	or			
. an load outlett (I LA)	ioi unoo phase Ao mot	. .	at 480V	Α	7.6
			at 600V	A	6.1
Yielded mechanical per	rformance				
	for single-phase AC m	otor			
	J 1		110/120V	HP	0.5
			230V	HP	1.5
	for three-phase AC mo	otor			
			200/208V	HP	2
			220/230V	HP	3
			460/480V	HP	5
			575/600V	HP	5
General USE					
	Contactor				



electric	THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 60VDC, 1NC
	AUXILIARY CONTACT, FASTON TERMINALS
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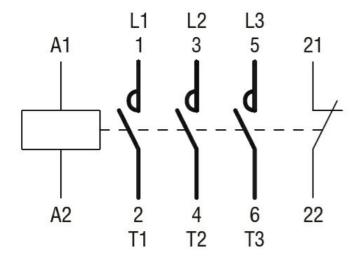
		AC current	Α	20
Short-circuit protect	tion fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	Α	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	30
Contact rating of au	xiliary contacts according to UL			A600 - Q600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Prote	ction			
Pollution degree				3
Dimensions				



Wiring diagrams

electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 60VDC, 1NC AUXILIARY CONTACT, FASTON TERMINALS

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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