





Product designation			Power contactor
Product type designation Contact characteristics			BF09
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated insulation voltage of IEG/EN Rated impulse withstand voltage Uimp		kV	6
Operational frequency		K V	0
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	max	A	25
Operational current le			
	AC-1 (≤40°C)	Α	25
	AC-1 (≤55°C)	Α	20
	AC-1 (≤70°C)	Α	18
	AC-3 (≤440V ≤55°C)	Α	9
	AC-4 (400V)	Α	4.9
Rated operational power AC-3 (T≤55°C)			
	230V	kW	2.2
	400V	kW	4.2
	415V	kW	4.5
	440V	kW	4.8
	500V	kW	5.5
	690V	kW	7.5
Rated operational power AC-1 (T≤40°C)			
	230V	kW	9.5
	400V	kW	16
	500V	kW	21
150	690V	kW	27
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	40.41.4		4.5
	≤24V	A	15
	48V 75V	A A	13 12
	110V	A	6
	220V	A	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	ZZ0 V		
120 max carrent to in 201 wait 2/102 mic wait 2 poloc in conco	≤24V	Α	18
	48V	Α	18
	75V	Α	17
	110V	Α	12
	220V	Α	1
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
·	≤24V	Α	20
	48V	Α	20
	75V	Α	20
	110V	Α	15





	220V	Α	10
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	20
	48V	Α	20
	75V	Α	20
	110V	Α	16
	220V	A	12
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	220 V		12
TEC max current le in DO3-DO3 with E/N = 13ms with 1 poles in series	<0417	^	40
	≤24V	A	10
	48V	Α	9
	75V	Α	8
	110V	Α	2
	220V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	Α	13
	48V	Α	11
	75V	Α	10
	110V	Α	7
	220V	Α	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	220 V		
TEO THAN GUITORIC IN DOO-DOO WITH LITT = TOTHS WITH 5 POICS IT SELICS	≤24V	Α	15
	48V	A	15
	75V	Α	13
	110V	Α	11
	220V	Α	6
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	15
	48V	Α	15
	75V	Α	15
	110V	Α	12
	220V	Α	7
Short-time allowable current for 10s (IEC/EN60947-1)		Α	150
Protection fuse			
Totalian ruda	gG (IEC)	Α	25
	aM (IEC)	A	10
Making apposity (DMC value)	aivi (IEC)		
Making capacity (RMS value)		Α	90
Breaking capacity at voltage		_	
	440V	Α	72
	500V	Α	72
	690V	Α	71
Resistance per pole (average value)		$m\Omega$	2.5
Power dissipation per pole (average value)			
	Ith	W	1.6
	AC-3	W	0.2
Tightening torque for terminals			
	min	Nm	1.5
	max	Nm	1.8
	min	Ibin	1.1
Tightening towns for call to reside	max	Ibin	1.5
Tightening torque for coil terminal			0.0
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.8





NA	and the second consequent	max	Ibin	0.74
	s simultaneously connectable		Nr.	2
Conductor section	AWG/Kcmil			
	AWG/Remii	max		10
	Flexible w/o lug conductor section	max		10
	r toxible w/e tag defladater edeticit	min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section			
	· ·	min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor	r section		
		min	mm²	1
		max	mm²	4
Power terminal prote	ection according to IEC/EN 60529			IP20 when
<u> </u>				properly wired
Mechanical features				
Operating position		1		\/ortical als:-
		normal allowable		Vertical plan ±30°
		allowable		Screw / DIN rail
Fixing				35mm
Weight			g	500
Auxiliary contact cha	aracteristics		9	
Thermal current Ith			А	10
IEC/EN 60947-5-1 d	designation			A600 - P600
Operating current A				
		230V	Α	3
		400V	Α	1.9
		500V	Α	1.4
Operating current D	C12			
		110V	Α	5.7
Operating current D	C13			
		24V	Α	5.7
		48V	Α	2.9
		60V	Α	2.3
		110V	A	1.25
		125V	A	1.1
		220V 600V	A A	0.55 0.2
Operations		000 V	A	U.Z
Mechanical life			cycles	20000000
Electrical life			cycles	2000000
Safety related data			0 y 0100	
	310d according to EN/ISO 13489-1			
	3	rated load	cycles	2000000
		mechanical load	cycles	20000000
EMC compatibility			-	yes
AC coil operating				-
AC operating voltag	e			
	of 50/60Hz coil powered at 50Hz			
	drop-out			
		max	%Us	55
DC coil operating				

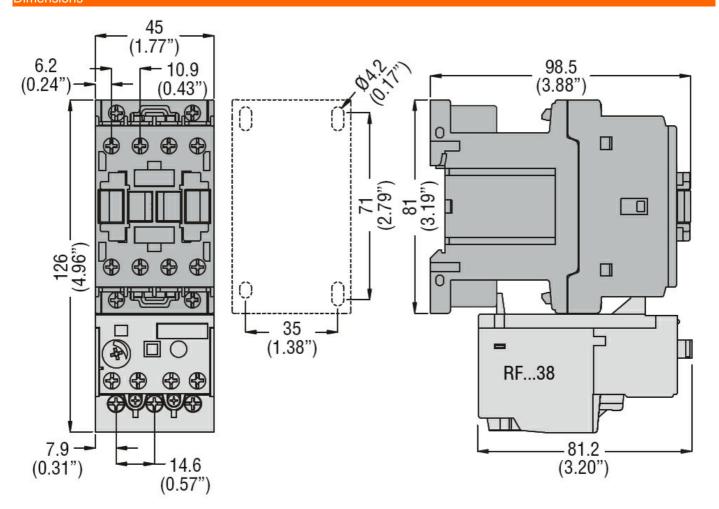




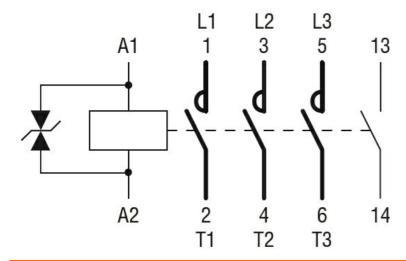
DO note di control colta					40
DC rated control voltage	je			V	48
DC operating voltage	niak un				
	pick-up		min	0/116	80
			min	%Us	
	drop out		max	%Us	110
	drop-out		min	%Us	10
			min	%Us	40
Average coil consump	tion <20°C		max	/005	40
Average con consump	11011 320 C		in-rush	W	2.4
			holding	W	2.4
Max cycles frequency			riolality	VV	2.4
-				cycles/h	3600
Mechanical operation Operating times				cycles/11	3000
	entrol				
Average time for Us co	in AC				
	III AC	Closing NO			
		Closing NO	min	mo	8
			min	ms	
		Opening NO	max	ms	24
		Opening NO			40
			min	ms	10
		Clasing NC	max	ms	20
		Closing NC	min	m.a	1.1
			min	ms	14
		Opening NC	max	ms	28
		Opening NC	min	m.a	7
			min	ms	7
	:- DO		max	ms	18
	in DC	Clasina NO			
		Closing NO	min	m.a	75
			min	ms	75
		Opening NO	max	ms	91
		Opening NO	min	mo	15
			min	ms	15
UL technical data			max	ms	19
	200 AC (III.)			V	600
Rated operational volta	for three-phase AC mo	ator.		V	600
Full-load Current (FLA)	ioi illiee-phase AC illo)(OI	at 480V	۸	7.6
			at 600V	A	
Violded machanical as	rformanca		ลเ ซบบิง	Α	9
Yielded mechanical pe		notor			
	for single-phase AC n	HOLUI	110/1001	ПD	0.75
			110/120V 230V	HP up	0.75
	for three where AC	otor	Z3UV	HP	2
	for three-phase AC m	UUUI	200/2007	ПD	2
			200/208V	HP HP	3
			220/230V		3 5
			460/480V	HP up	
General USE			575/600V	HP	7.5
General USE	Contactor				
	Contactor		AC attimated	٨	25
	Auxilian contacts		AC current	Α	25
	Auxiliary contacts		AC valtage	\/	600
			AC voltage	V	600



		AC current	Α	10
		DC voltage	V	250
		DC current	Α	1
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	60
Contact rating of au	xiliary contacts according to UL			A600 - P600
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				







Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN/BS 60947-1

IEC/EN/BS 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

CCC

cULus

EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching

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