





Product designation			Power contactor
Product type designation Contact characteristics			BF09
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency		K V	
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	max	A	25
Operational current le		- ' '	
oporational current to	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
	690V	kW	27
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	Α	15
	48V	Α	13
	75V	Α	12
	110V	Α	6
150 H. J. BOA W. J. B. J.	220V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	Α	18
	48V	A	18
	75V	A	17
	110V	A	12
IFC many asymmetric in DC4 with L/D < 4 man with 2 males in agriculture	220V	Α	1
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	~0.AV	٨	20
	≤24V	A	20
	48V 75V	A	20
	75V 110V	A A	20 15
	1100	A	10





	220V	Α	10	
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series		<u> </u>	-	
	≤24V	Α	20	
	48V	Α	20	
	75V	Α	20	
	110V	Α	16	
	220V	Α	12	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series				
	≤24V	Α	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	
150	220V	Α	2	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series		_		
	≤24V	Α	15	
	48V	Α	15	
	75V	Α	13	
	110V	Α	11	
150 LL : D00 D05 '11 L/D : 45 LL : 11	220V	Α	6	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	-04)/		4.5	
	≤24V	A	15	
	48V	A	15	
	75V 110V	A	15 12	
	220V	A	12 7	
Short-time allowable current for 10s (IEC/EN60947-1)	220 V	A 	150	
Protection fuse			130	
Protection ruse	gG (IEC)	٨	25	
	aM (IEC)	A	10	
Making capacity (RMS value)	aivi (IEC)	A A	90	
Breaking capacity (Kivis Value)		A	90	
breaking capacity at voltage	440V	Α	72	
	500V	A	72 72	
	690V	A	72 71	
Resistance per pole (average value)	090 V	mΩ	2.5	
Power dissipation per pole (average value)		11122	2.0	
i ower dissipation per pole (average value)	Ith	W	1.6	
	AC-3	W	0.2	
Tightening torque for terminals	AC-3	V V	0.2	
rightening torque for terminals	min	Nm	1.5	
	max	Nm	1.5 1.8	
	min	lbin	1.0	
	max	lbin	1.1	
Tightening torque for coil terminal	Παλ	ווטו	1.0	
rightening torque for con terrinia	min	Nm	0.8	
	max	Nm	1	
	min	lbin	0.8	
	111111	10111	0.0	





		max	lbin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			4.0
	Fig. 7.1	max		10
	Flexible w/o lug conductor section			4
		min	mm²	1
	Flexible c/w lug conductor section	max	mm²	6
	Flexible C/W lug corludctor Section	min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section	IIIax	111111	4
	r lexible with insulated space lug conductor section	min	mm²	1
		max	mm²	4
		max	111111	IP20 when
Power terminal prote	ction according to IEC/EN 60529			properly wired
Mechanical features				propony mod
Operating position				
. 01		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight				346
Conductor section			g	340
Conductor Section	AWG/kcmil conductor section			
	AVVG/RCITIII COTIQUCTOT Section	may		10
Auxiliary contact char	ractoristics	max		10
Thermal current Ith	acionalica		А	10
IEC/EN 60947-5-1 de	esignation			A600 - P600
Operating current AC				7,000 1 000
oporating ourroint re		230V	Α	3
		400V	A	1.9
Operating current DC		500V	A	1.4
Operating current DC	712	500V	Α	1.4
		500V	Α	5.7
		500V 110V	A A	1.4
		500V 110V 24V	A A	1.45.75.7
		500V 110V 24V 48V	A A A	5.7 5.7 2.9
		500V 110V 24V 48V 60V	A A A A	5.7 5.7 2.9 2.3
		500V 110V 24V 48V 60V 110V	A A A A A	5.7 5.7 2.9 2.3 1.25
		500V 110V 24V 48V 60V 110V 125V	A A A A A A	5.7 5.7 2.9 2.3 1.25 1.1
Operating current DC		500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55
Operating current DC		500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55
Operating current DC Operations Mechanical life Electrical life		500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operating current DC Operations Mechanical life Electrical life Safety related data	213	500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A Cycles	1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operating current DC Operations Mechanical life Electrical life Safety related data		500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles	1.4 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 20000000
Operating current DC Operations Mechanical life Electrical life Safety related data	213	500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A Cycles	1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operations Mechanical life Electrical life Safety related data Performance level B	10d according to EN/ISO 13489-1	500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles cycles	1.4 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 20000000
Mirror contats accord	10d according to EN/ISO 13489-1	110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A Cycles cycles	1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 20000000
Operations Mechanical life Electrical life Safety related data Performance level B	10d according to EN/ISO 13489-1	110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A Cycles cycles	1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 20000000 20000000 200000000



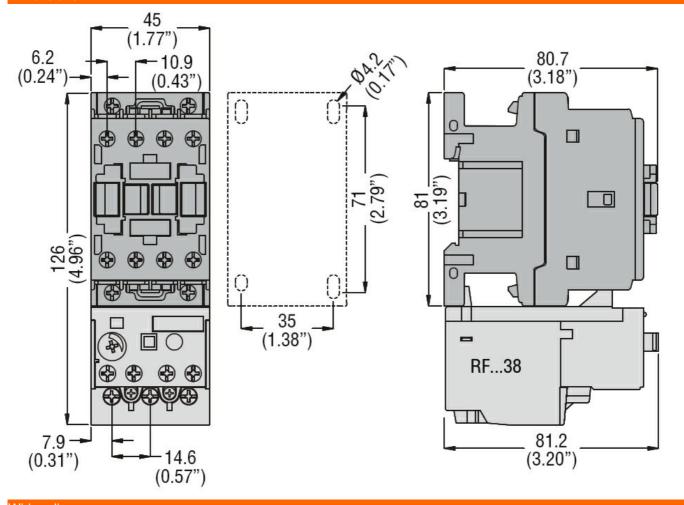


Rated AC voltage at 60	OHz		V	575
AC operating voltage				
	of 60Hz coil powered at 60Hz			
	pick-up	min	%Us	80
		max	%Us	110
	drop-out	max	7003	110
	3.5p 33.	min	%Us	20
		max	%Us	55
AC average coil consu	imption at 20°C			
	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
		holding	VA	9
Dissipation at holding :	≤20°C 50Hz		W	2.5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us co				
	in AC			
	Closing NO			0
		min	ms ms	8 24
	Opening NO	max	ms	24
	Opening NO	min	ms	10
		max	ms	20
	Closing NC	max	1113	20
	Clooming 140	min	ms	14
		max	ms	28
	Opening NC			
		min	ms	7
		max	ms	18
JL technical data				
Full-load current (FLA)	for three-phase AC motor			
		at 480V	A	7.6
	,	at 600V	Α	0.375
ielded mechanical pe				
	for single-phase AC motor	440/400\/	LID	0.75
		110/120V 230V	HP HP	0.75
	for three phase AC mater	230 V	ПР	2
	for three-phase AC motor	200/208V	HP	3
		220/230V	HP	3
		460/480V	HP	5
		575/600V	HP	7.5
General USE				
	Contactor			
		AC current	Α	25
	Auxiliary contacts			
		AC voltage	V	600
		AC current	Α	10
		DC voltage	V	250
		DC current	Α	1
Short-circuit protection	fuse, 600V			
	High fault			





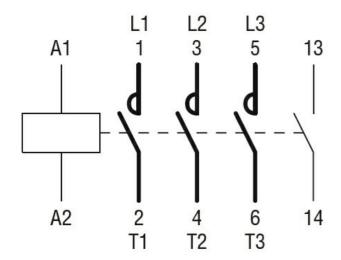
		Short circuit current	kA	100
		Fuse rating	Α	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	60
Contact rating of auxiliary contacts according to UL				A600 - P600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protection	on			
Pollution degree				3
Dimensions				



Wiring diagrams

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 60HZ, 575VAC, 1NO AUXILIARY CONTACT



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