



			44
Product designation			Power contactor
Product type designation			BF09
Contact characteristics			
Number of poles		Nr.	4
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	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-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
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	Α	18
	48V	Α	18
	75V	Α	17
	110V	A	12
150 11 1 BO4 11 1 1 B 44 11 1 0 1 1 1 1	220V	Α	1
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	40 AV /		00
	≤24V	A	20
	48V	A	20
	75V	A	20
	110V	A	15
IEC may current to in DC1 with L/D < 1 mg with 4 notes in series	220V	A	10
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	2011	^	20
	≤24V	A	20
	48V 75V	A	20
		A	20
	110V	A	16 12
	220V	Α	12



IEC may current to in F	DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
IEC max current le in L	DC3-DC3 With L/R \( \) Toms with 1 poles in series	≤24V	Α	10
		48V	A	9
		75V	A	8
		110V	A	2
		220V	A	<u>_</u>
IEC may ourrent to in E	DC3-DC5 with L/R ≤ 15ms with 2 poles in series	220 V		
IEC max current le in L	DC3-DC3 With L/R \(\sigma\) 13ms with 2 poles in series	≤24V	۸	40
		≤24 V 48 V	A	13
		46 V 75 V	A A	11 10
		110V		
		220V	A	7
IFC many augment to in F	C2 DC5 with L/D < 45ma with 2 males in series	220 V	Α	2
IEC max current le in L	DC3-DC5 with L/R ≤ 15ms with 3 poles in series	10 AV		4.5
		≤24V	A	15
		48V	A	15
		75V	A	13
		110V	Α	11
		220V	Α	6
IEC max current le in E	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 cu	urrent for 10s (IEC/EN60947-1)		Α	150
Protection fuse				
		gG (IEC)	Α	25
		aM (IEC)	Α	10
Making capacity (RMS	value)		Α	90
Breaking capacity at vo	oltage			_
		440V	Α	72
		500V	Α	72
		690V	Α	71
Resistance per pole (a	verage value)		mΩ	2.5
Power dissipation per p	pole (average value)			
	,	Ith	W	1.6
		AC-3	W	0.2
Tightening torque for te	erminals			
		min	Nm	1.5
		max	Nm	1.8
		min	Ibin	1.1
		max	Ibin	1.5
Tightening torque for co	oil terminal	Hier		
		min	Nm	0.8
		max	Nm	1
		min	Ibin	0.8
		max	Ibin	0.74
Max number of wires ei	imultaneously connectable	Παλ	Nr.	2
Conductor section	initialianously confidentable		INI.	
Conductor Section	AVVC/Kamil			
	AWG/Kcmil			10
	Flexible w/s has positiveted as at 1	max		10
	Flexible w/o lug conductor section	1	· ?	4
		min	mm²	1





## ČTYŘPÓLOVÝ STYKAČ, JMENOVITÝ PROUD ITH (AC1)=25A, CÍVKA 230VAC 50/60HZ

			2	0
	Florible a/w lug conductor section	max	mm²	6
	Flexible c/w lug conductor section	min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conduct			<u> </u>
		min	mm²	1
		max	mm²	4
Power terminal protec	tion according to IEC/EN 60529			IP20 when
	tion according to IEC/EN 00329			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight				356
Conductor section			g	330
Conductor Scotton	AWG/kcmil conductor section			
	Since in a second second	max		10
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	2000000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	cycles	2000000
		mechanical load	cycles	20000000
	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 5	60/60Hz		V	230
AC operating voltage	(50/001)			
	of 50/60Hz coil powered at 50Hz			
	pick-up	min	%Us	80
		max	%Us	110
	drop-out	IIIdx	/003	110
	diop-out	min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz	<del></del>		
	pick-up			
	•	min	%Us	85
		max	%Us	110
	drop-out			
		min	%Us	20
	1. 1.0000	max	%Us	55
AC average coil consu	•			
	of 50/60Hz coil powered at 50Hz	:1	\/^	7.5
		in-rush	VA	75 0
	of EO/GOLIZ and noward at COLIZ	holding	VA	9
	of 50/60Hz coil powered at 60Hz	in-rush	VA	70
		holding	VA VA	6.5
	of 60Hz coil powered at 60Hz	Holding	v //\	0.0
	or our iz our powered at our iz	in-rush	VA	75
		11114311	٧,١	· •

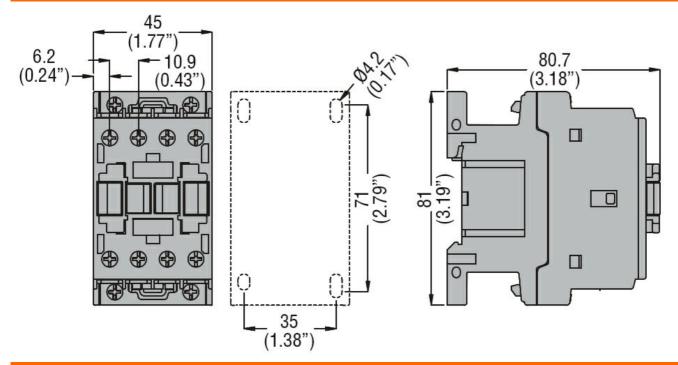




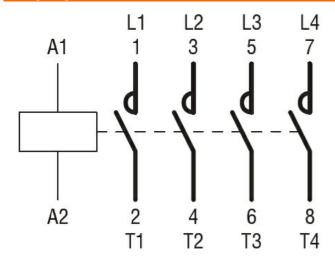
		holding	VA	9
Dissipation at holding ≤	20°C 50Hz		W	2.5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us con	ntrol			
	in AC			
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO			
		min	ms	10
	Olassia a NO	max	ms	20
	Closing NC			4.4
		min	ms	14 28
	Opening NC	max	ms	20
	Opening NC	min	ms	7
		max	ms	, 18
UL technical data		IIIdA	1113	10
	for three-phase AC motor			
r dir lodd odiront (r Ert)	ior tiree priase 70 motor	at 480V	Α	7.6
		at 600V	A	0.375
Yielded mechanical per	formance			0.0.0
	for single-phase AC motor			
	Tel single phase / te meter	110/120V	HP	0.75
		230V	HP	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
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
A 12 4 190		Fuse rating	Α	60
Ambient conditions				
Temperature				
	Operating temperature		۰.	50
		min	°C	-50 -70
	Storage temporative	max	°C	70
	Storage temperature		°C	60
		min	°C	-60 80
Max altitude		max		3000
Resistance & Protection			m	3000
Pollution degree				3
. Shahori dogree				



## **Dimensions**



## Wiring diagrams



## 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