



Product designation Product type designation			Power contactor BF12
Contact characteristics			51 12
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		А	28
Operational current le			
	AC-1 (≤40°C)	А	28
	AC-1 (≤55°C)	А	23
	AC-1 (≤70°C)	А	20
	AC-3 (≤440V ≤55°C)	А	12
	AC-4 (400V)	А	7.9
Rated operational power AC-1 (T≤40°C)			
	230V	kW	10
	400V	kW	18
	500V	kW	23
	690V	kW	32
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series			
	≤24V	А	17
	48V	А	15
	75V	А	13
	110V	А	6
	220V	A	-
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	A	20
	48V	А	20
	75V	Α	18
	110V	A	13
	220V	A	1
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series		-	
	≤24V	Α	22
	48V	A	22
	75V	A	20
	110V	A	16
	220V	A	11
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			0.0
	≤24V	A	20
	48V	A	20
	75V	A	20
	110V	A	16
	220V	А	12

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IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series			
	≤24V	А	12
	48V	А	11
	75V	А	10
	110V	А	2
	220V	А	-
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series			
	≤24V	А	15
	48V	А	13
	75V	А	12
	110V	А	8
	220V	Α	2
IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series			
	≤24V	Α	18
	48V	А	18
	75V	Α	15
	110V	А	12
	220V	А	6
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series			
	≤24V	А	15
	48V	А	15
	75V	А	15
	110V	А	16
	220V	А	7
Short-time allowable current for 10s (IEC/EN60947-1)		А	150
Protection fuse			
	gG (IEC)	А	32
	aM (IEC)	А	12
Making capacity (RMS value)		А	120
Breaking capacity at voltage			
	440V	А	96
	500V	А	96
	690V	А	94
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			
	lth	W	2
	AC-3	W	0.4
Tightening torque for terminals			
	min	Nm	1.5
	max	Nm	1.8
	min	lbin	1.1
	max	lbin	1.5
Tightening torque for coil terminal			-
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.8
	max	Ibin	0.74
Max number of wires simultaneously connectable	max	Nr.	2
Conductor section			_
AWG/Kcmil			
	max		10
Flexible w/o lug conductor section	max		10
rionible w/o tag conductor accitori	min	mm²	1
	11111		•

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FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 28A, AC COIL 50/60HZ, 230VAC

		max	mm²	6
	Flexible c/w lug conductor section	Παλ		0
		min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor	section		
		min	mm²	1
		max	mm²	4
Power terminal protec	tion according to IEC/EN 60529			IP20 when
Mechanical features	č			properly wired
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	360
Conductor section			9	500
	AWG/kcmil conductor section			
		max		10
Operations				
Mechanical life			cycles	2000000
Electrical life			cycles	2000000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	cycles	2000000
		mechanical load	cycles	2000000
	ng to IEC/EN 609474-4-1			yes
EMC compatibility AC coil operating				yes
Rated AC voltage at 5	0/60Hz		V	230
AC operating voltage	0/00112		v	200
re operating reliage	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up	min	%Us	85
		max	%Us %Us	85 110
	drop-out	Παλ	/003	
		min	%Us	20
		max	%Us	55
AC average coil consu	umption at 20°C			
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz			70
		in-rush	VA	70 6 5
	of 60Hz coil powered at 60Hz	holding	VA	6.5
		in-rush	VA	75
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BF12T4A230 FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 28A, AC COIL 50/60HZ,

ENERGY AND AUTOMATION				230 740
		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 control				
in AC				
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO			
		min	ms	10
		max	ms	20
	Closing NC			
				4.4

		min	ms	10
		max	ms	20
	Closing NC			
	e.com.g.re	min	ms	14
		max	ms	28
		IIIdX	1115	20
	Opening NC			
		min	ms	7
		max	ms	18
UL technical data				
Full-load current (FI	LA) for three-phase AC motor			
	, ,	at 480V	А	11
		at 600V	A	11
		at 600 v	A	11
Yielded mechanical				
	for single-phase AC motor			
		110/120V	HP	1
		230V	HP	2
	for three-phase AC motor			
		200/208V	HP	5
		220/230V	HP	5
		460/480V	HP	7.5
		575/600V	HP	10
General USE				
	Contactor			
		AC current	А	28
Short-circuit protect	tion fuse 600V			
	High fault	Chart size vit surrout	1. 1	100
		Short circuit current	kA	100
		Fuse rating	А	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
				5 70
Ambient conditions		Short circuit current Fuse rating	kA A	5 70
Ambient conditions				
Ambient conditions Temperature				
	Operating temperature	Fuse rating	A	70
			A °C	-50
		Fuse rating	A	70
		Fuse rating min	A °C	-50
	Operating temperature	Fuse rating min max	A °C °C	70 -50 70
	Operating temperature	Fuse rating min	A °C	-50

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Pollution degree

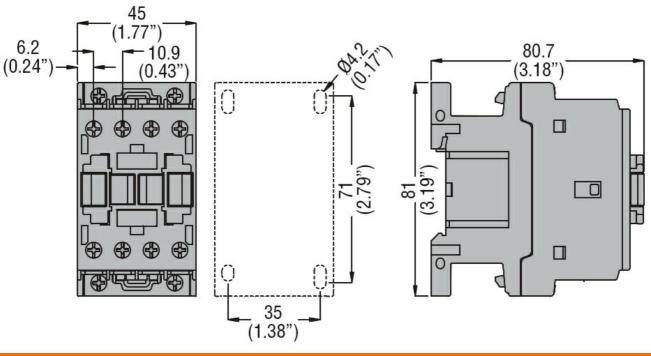
Resistance & Protection

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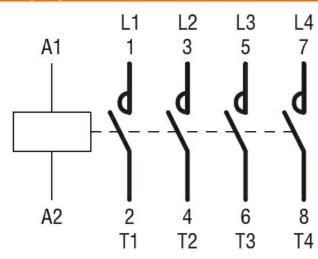
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Dimensions



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		
		EC000066 -
ETIM 8.0		Power contactor,
		AC switching