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Product designation		Power contactor
Product type designation		BF18
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	32
Operational current le		
AC-1 (≤40°C)	A	32
AC-1 (≤55°C)	A	26
AC-1 (≤70°C)	A	23
AC-3 (≤440V ≤55°C)	A	18
AC-4 (400V)	A	8.5
Rated operational power AC-1 (T≤40°C)	1.1.1/	40
230V 400V	kW	12
	kW kW	21
500V 690V	kw kW	26 36
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	ĸvv	30
≤24V	А	17
48V	A	15
75V	A	15
110V	A	6
220V	A	-
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	73	
≤24V	А	20
48V	A	20
75V	A	20
110V	А	13
220V	А	1
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series		
≤24V	А	22
48V	А	22
75V	А	20
110V	Α	16
220V	А	11
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series		
≤24V	А	22
48V	А	22
75V	А	20
110V	А	18
220V	Α	13



IEC max current le in De	C3-DC5 with L/R \leq 15ms with 1 poles in series			
		≤24V	Α	12
		48V	А	11
		75V	А	11
		110V	А	2
		220V	А	_
IEC max current le in D	C3-DC5 with L/R \leq 15ms with 2 poles in series			
		≤24V	А	15
		48V	A	
				13
		75V	A	13
		110V	A	8
		220V	A	2
IEC max current le in D	C3-DC5 with L/R \leq 15ms with 3 poles in series			
		≤24V	Α	18
		48V	Α	18
		75V	А	16
		110V	А	12
		220V	A	6
IEC max current le in De	C3-DC5 with L/R \leq 15ms with 4 poles in series			-
		≤24V	А	18
		48V	A	18
		75V	Α	16
		110V	A	13
		220V	A	8
Short-time allowable cu	rrent for 10s (IEC/EN60947-1)		А	200
Protection fuse				
		gG (IEC)	А	32
		aM (IEC)	А	20
Making capacity (RMS v	alue)		Α	180
Breaking capacity at vol				
Breaking bapabily at vor	lago	440V	А	144
		500V	A	120
<u> </u>		690V	A	94
Resistance per pole (av			mΩ	2.5
Power dissipation per pe	ole (average value)			
		lth	W	2.6
		AC-3	W	0.8
Tightening torque for ter	minals			
		min	Nm	1.5
		max	Nm	1.8
		min	Ibin	1.1
		max	Ibin	1.5
Tightoning torque for as	il torminal	Παλ		1.0
Tightening torque for co			N.L	0.0
		min	Nm	0.8
		max	Nm	1
		min	lbin	0.8
		max	lbin	0.74
Max number of wires sir	nultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		10
	Flexible w/o lug conductor section	max		
	TIONISIC W/O ING CONTROLOGI SECTION	min	mm²	1
		min	11111	I

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		max	mm²	6
	Flexible c/w lug conductor section	IIIdA		0
		min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor se			
		min	mm²	1
		max	mm²	4
Dower terminal protect	tion apporting to IEC/EN 60520			IP20 when
Power terminal protec	tion according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	360
Conductor section			-	
	AWG/kcmil conductor section			
		max		10
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	1600000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	cycles	1600000
		mechanical load	cycles	2000000
	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating	0/0011		. ,	000
Rated AC voltage at 5	U/6UHZ		V	230
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up	min	0/110	90
		min	%Us	80
	drop out	max	%Us	110
	drop-out	min	%Us	20
		max	%Us %Us	20 55
	of 50/60Hz coil powered at 60Hz	IIIdX	/005	55
	pick-up			
	ρισκ-αρ	min	%Us	85
		max	%Us	110
	drop-out	max	/000	
		min	%Us	20
		max	%Us	55
AC average coil consu	umption at 20°C			
0	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz	<u> </u>		
	·	in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz	<u> </u>		
		in-rush	VA	75

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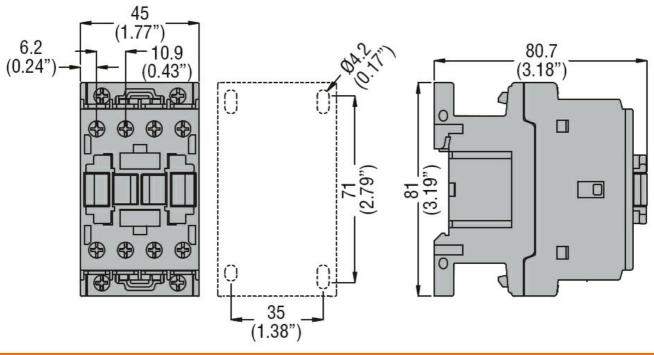
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		holding	VA	9
Dissipation at holding	g ≤20°C 50Hz		W	2.5
Max cycles frequenc	у			
Mechanical operatior	1		cycles/h	3600
Operating times				
Average time for Us				
	in AC			
	Closing NO	min	ms	8
		max	ms	24
	Opening NO	Пах	mo	27
	epering ree	min	ms	10
		max	ms	20
	Closing NC			
		min	ms	14
		max	ms	28
	Opening NC			_
		min	ms	7
		max	ms	18
UL technical data	A) for three phase AC mater			
Full-load current (FL	A) for three-phase AC motor	at 1001/	۸	11
		at 480V at 600V	A A	14 17
Yielded mechanical	performance	at 000 v	A	17
neueu mechanicai j	for single-phase AC motor			
	tor single-phase AC motor	110/120V	HP	1
		230V	HP	3
	for three-phase AC motor			•
		200/208V	HP	5
		220/230V	HP	5
		460/480V	HP	10
		575/600V	HP	15
General USE				
	Contactor			
		AC current	A	32
Short-circuit protection				
	High fault			
		Short circuit current	kA	100
		Fuse rating	А	60
	Standard fault	Fuse class		J
	Stanuaru Iauli	Short circuit current	kA	5
		Fuse rating	A	80
Ambient conditions			~	
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protec	tion			
Pollution degree				3

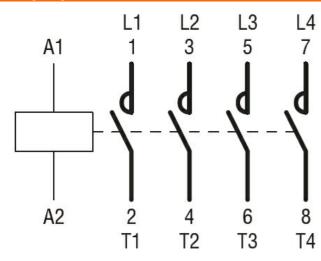
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Dimensions



Wiring diagrams



Certifications and co	mpliance	
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

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