



Product designation Product type designation			Power contactor BF65
Contact characteristics			DI 00
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		А	100
Operational current le			
	AC-1 (≤40°C)	А	100
	AC-1 (≤55°C)	А	80
	AC-1 (≤70°C)	А	70
	AC-3 (≤440V ≤55°C)	A	65
	AC-4 (400V)	A	31
Rated operational current AC-3 (T≤55°C)			
	230V	A	65
	400V	A	65
	415V	A	65
	440V	A	65
	500V	A	53
	690V	A	47
Rated operational power AC-1 (T≤40°C)	1000V	A	25
Rated operational power AC-1 (1540 C)	230V	L/\//	20
	230V 400V	kW kW	38 65
	400V 500V	kW	82
	690V	kW	114
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	0001		
	≤24V	А	50
	48V	A	50
	75V	A	50
	110V	A	8
	220V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	А	70
	48V	А	70
	75V	А	70
	110V	А	60
	220V	А	9
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	А	70
	48V	А	70
	75V	А	70



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	110V	А	60
	220V	А	90
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	≤24V	А	70
	48V	А	70
	75V	А	70
	110V	А	70
	220V	А	110
IEC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series			
	≤24V	А	35
	48V	А	25
	75V	А	25
	110V	А	3
	220V	A	-
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series			
	≤24V	А	45
	48V	А	40
	75V	А	40
	110V	A	30
	220V	A	5
IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series			
	≤24V	A	55
	48V	A	50
	75V	A	50
	110V	A	35
	220V	A	52
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series	<2417	۸	<u> </u>
	≤24V 48V	A	60 60
	48V 75V	A	60 60
	75V 110V	A A	60 50
	220V	A	65
Short-time allowable current for 10s (IEC/EN60947-1)	220 V	A	640
Protection fuse		~	040
r lotection ruse	gG (IEC)	А	125
	aM (IEC)	A	80
Making capacity (RMS value)		A	650
Breaking capacity at voltage		Λ	000
Broaking supulity at tokage	440V	А	520
	500V	A	425
	690V	A	376
Resistance per pole (average value)	000 V	mΩ	0.8
Power dissipation per pole (average value)			
	Ith	W	8
	AC-3	W	3.4
Tightening torque for terminals			
	min	Nm	4
	max	Nm	5
	min	Ibin	2.95
	max	Ibin	3.69
Tightening torque for coil terminal	Пал		0.00
	min	Nm	0.8
	max	Nm	1
	max		



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		min	Ibin	0.8
		max	lbin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			2
		max		2
	Flexible w/o lug conductor section		mm ²	15
		min	mm² mm²	1.5 35
	Flexible c/w lug conductor section	max	11111	33
		min	mm²	1.5
		max	mm²	35
Power terminal prote	ction according to IEC/EN 60529	IIIdA		IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
				Screw / DIN rai
Fixing				35mm
Weight			g	1240
Conductor section			0	
	AWG/kcmil conductor section			
		max		2
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1400000
Safety related data				
Performance level B	10d according to EN/ISO 13489-1			
		rated load	cycles	1400000
				1
Mirror contats accord		mechanical load	cycles	15000000
	ling to IEC/EN 609474-4-1	mechanical load	cycles	15000000 yes
EMC compatibility	ling to IEC/EN 609474-4-1	mechanical load	cycles	
	ling to IEC/EN 609474-4-1	mechanical load		yes
EMC compatibility		mechanical load	cycles V	yes
EMC compatibility AC coil operating	60Hz	mechanical load		yes yes
EMC compatibility AC coil operating Rated AC voltage at (60Hz	mechanical load		yes yes
EMC compatibility AC coil operating Rated AC voltage at (60Hz	mechanical load	V	yes yes 575
EMC compatibility AC coil operating Rated AC voltage at (60Hz of 60Hz coil powered at 60Hz	mechanical load	V %Us	yes yes 575 80
EMC compatibility AC coil operating Rated AC voltage at (60Hz of 60Hz coil powered at 60Hz pick-up		V	yes yes 575
EMC compatibility AC coil operating Rated AC voltage at (60Hz of 60Hz coil powered at 60Hz	min	V %Us %Us	yes yes 575 80 110
EMC compatibility AC coil operating Rated AC voltage at (60Hz of 60Hz coil powered at 60Hz pick-up	min	V %Us %Us %Us	yes yes 575 80 110 20
EMC compatibility AC coil operating Rated AC voltage at 0 AC operating voltage	60Hz of 60Hz coil powered at 60Hz pick-up drop-out	min max	V %Us %Us	yes yes 575 80 110
EMC compatibility AC coil operating Rated AC voltage at (60Hz of 60Hz coil powered at 60Hz pick-up drop-out	min max min	V %Us %Us %Us	yes yes 575 80 110 20
EMC compatibility AC coil operating Rated AC voltage at 0 AC operating voltage	60Hz of 60Hz coil powered at 60Hz pick-up drop-out	min max min max	V %Us %Us %Us %Us	yes yes 575 80 110 20 55
EMC compatibility AC coil operating Rated AC voltage at 0 AC operating voltage	60Hz of 60Hz coil powered at 60Hz pick-up drop-out	min max min max in-rush	V %Us %Us %Us %Us VA	yes yes 575 80 110 20 55 210
EMC compatibility AC coil operating Rated AC voltage at of AC operating voltage	60Hz of 60Hz coil powered at 60Hz pick-up drop-out sumption at 20°C of 60Hz coil powered at 60Hz	min max min max	V %Us %Us %Us %Us VA VA	yes yes 575 80 110 20 55 210 15
EMC compatibility AC coil operating Rated AC voltage at 0 AC operating voltage AC average coil cons Dissipation at holding	60Hz of 60Hz coil powered at 60Hz pick-up drop-out sumption at 20°C of 60Hz coil powered at 60Hz	min max min max in-rush	V %Us %Us %Us %Us VA	yes yes 575 80 110 20 55 210
EMC compatibility AC coil operating Rated AC voltage at 0 AC operating voltage AC average coil cons Dissipation at holding Max cycles frequency	60Hz of 60Hz coil powered at 60Hz pick-up drop-out sumption at 20°C of 60Hz coil powered at 60Hz	min max min max in-rush	V %Us %Us %Us %Us %Us VA VA VA W	yes yes 575 80 110 20 55 210 15 5
EMC compatibility AC coil operating Rated AC voltage at of AC operating voltage AC average coil cons Dissipation at holding Max cycles frequency	60Hz of 60Hz coil powered at 60Hz pick-up drop-out sumption at 20°C of 60Hz coil powered at 60Hz	min max min max in-rush	V %Us %Us %Us %Us VA VA	yes yes 575 80 110 20 55 210 15 5
EMC compatibility AC coil operating Rated AC voltage at 0 AC operating voltage AC average coil cons Dissipation at holding Max cycles frequency Mechanical operation Operating times	60Hz of 60Hz coil powered at 60Hz pick-up drop-out sumption at 20°C of 60Hz coil powered at 60Hz g ≤20°C 50Hz	min max min max in-rush	V %Us %Us %Us %Us %Us VA VA VA W	yes yes 575 80 110 20 55 210 15 5
EMC compatibility AC coil operating Rated AC voltage at of AC operating voltage AC average coil cons Dissipation at holding Max cycles frequency Mechanical operation Operating times	60Hz of 60Hz coil powered at 60Hz pick-up drop-out sumption at 20°C of 60Hz coil powered at 60Hz g ≤20°C 50Hz	min max min max in-rush	V %Us %Us %Us %Us %Us VA VA VA W	yes yes 575 80 110 20 55 210 15 5
EMC compatibility AC coil operating Rated AC voltage at of AC operating voltage AC average coil cons Dissipation at holding Max cycles frequency	60Hz of 60Hz coil powered at 60Hz pick-up drop-out sumption at 20°C of 60Hz coil powered at 60Hz g ≤20°C 50Hz	min max min max in-rush	V %Us %Us %Us %Us %Us VA VA VA W	yes yes 575 80 110 20 55 210 15 5

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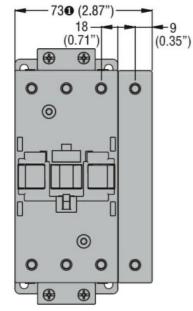
FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 100A, AC COIL 60HZ,

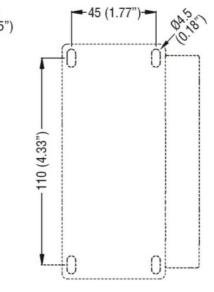
575VAC

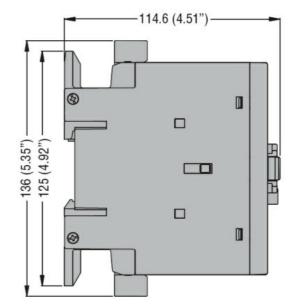
ENERGY AND ACTOMATION					
			min	me	12
				ms	28
		Opening NO	max	ms	20
		Opening NO	min	me	8
				ms	8 22
			max	ms	22
	in DC				
		Closing NO			40
			min	ms	40
			max	ms	85
		Opening NO			00
			min	ms	20
I II. And I also I. Inter-			max	ms	55
UL technical data					
Fuil-load current (F	LA) for three-phase	au motor			05
			at 480V	A	65
<u></u>			at 600V	A	62
Yielded mechanica					
	for three-phase	e AC motor			
			200/208V	HP	20
			220/230V	HP	25
			460/480V	HP	50
			575/600V	HP	60
General USE					
	Contactor				
			AC current	A	100
Short-circuit protect					
	High fault				
			Short circuit current	kA	100
			Fuse rating	А	200
			Fuse class		J
	Standard fault				
			Short circuit current	kA	10
			Fuse rating	А	200
			Fuse class		RK5
Ambient conditions	3				
Temperature					
	Operating temp	perature			
			min	°C	-50
			max	°C	70
	Storage tempe	rature			
			min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Prote	ection				
Pollution degree					3
Dimensions					



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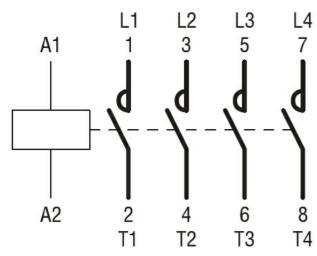






BF80T2 82mm/3.23"

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	
ETIM classification	on	
ETIM 8.0		EC000066 - Power contactor, AC switching