



Product designation Product type designation			Power contactor BF40
Contact characteristics			-
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		A	70
Operational current le			
	AC-1 (≤40°C)	A	70
	AC-1 (≤55°C)	A	60
	AC-1 (≤70°C)	A	50
	AC-3 (≤440V ≤55°C)	A	40
	AC-4 (400V)	A	24
Rated operational current AC-3 (T≤55°C)	0001/	٨	40
	230V	A	40
	400V 415V	A	40
	415V 440V	A A	40 40
	440V 500V	A	33
	690V	A	32
	1000V	A	21
Rated operational power AC-1 (T≤40°C)	10001		
	230V	kW	26
	400V	kW	46
	500V	kW	58
	690V	kW	79
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	А	40
	48V	А	35
	75V	А	30
	110V	А	8
	220V	Α	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	А	48
	48V	А	48
	75V	А	45
	110V	A	42
	220V	A	5
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series	.	-	10
	≤24V	A	48
	48V	A	48
	75V	A	48



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	110V	А	44
	220V	Α	56
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	≤24V	А	-
	48V	А	-
	75V	Α	-
	110V	А	_
	220V	Α	70
IEC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series			
	≤24V	А	27
	48V	A	23
	75V	A	19
	110V	А	3
	220V	A	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series			
	≤24V	А	32
	48V	Α	30
	75V	А	27
	110V	А	22
	220V	A	5
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series			
	≤24V	Α	40
	48V	Α	40
	75V	Α	38
	110V	A	27
	220V	A	32
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series		_	
	≤24V	A	-
	48V	A	-
	75V	A	-
	110V	A	-
	220V	<u>A</u>	40
Short-time allowable current for 10s (IEC/EN60947-1)		Α	400
Protection fuse			100
	gG (IEC)	A	100
Malian and aits (DMO scalue)	aM (IEC)	A	50
Making capacity (RMS value)		A	400
Breaking capacity at voltage	4.40\/	^	200
	440V	A	320
	500V	A	265
Pagistango par pala (averago valua)	690V	A	256 0.8
Resistance per pole (average value)		mΩ	0.8
Power dissipation per pole (average value)	141-	۱۸/	2.0
	lth	W	3.9
Tightoning torque for terminole	AC-3	W	1.3
Tightening torque for terminals	!	N I.a	4
	min	Nm	4
	max	Nm	5
	min	lbin Ibin	2.95
	max	lbin	3.69

min

max

Nm

Nm

0.8 1



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		min	Ibin	0.8
		max	lbin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			2
	Flexible w/o lug conductor section	max		2
	Flexible w/o lug conductor section	min	mm²	1.5
		max	mm²	35
	Flexible c/w lug conductor section	max		00
		min	mm²	1.5
		max	mm²	35
Power terminal prote	ction according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN ra
				35mm
Weight			g	1240
Conductor section				
	AWG/kcmil conductor section			2
Operations		max		2
Operations Mechanical life			avalaa	15000000
Electrical life			cycles	15000000 1500000
Safety related data			cycles	1500000
	10d according to EN/ISO 13489-1			
	10d according to EN/ISO 13489-1	rated load	cycles	150000
	10d according to EN/ISO 13489-1	rated load mechanical load	cycles	1500000 1500000
Performance level B1		rated load mechanical load	cycles cycles	15000000
Performance level B1 Mirror contats accord	10d according to EN/ISO 13489-1 ling to IEC/EN 609474-4-1		•	15000000 yes
Performance level B1			•	15000000
Performance level B1 Mirror contats accord EMC compatibility AC coil operating	ling to IEC/EN 609474-4-1		•	15000000 yes
Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6	ling to IEC/EN 609474-4-1 60Hz		cycles	15000000 yes yes
Performance level B1 Mirror contats accord EMC compatibility AC coil operating	ling to IEC/EN 609474-4-1 60Hz		cycles	15000000 yes yes
Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6	ling to IEC/EN 609474-4-1 60Hz		cycles	15000000 yes yes
Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6	ling to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz		v v v	15000000 yes yes
Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6	bing to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz pick-up	mechanical load	V	15000000 yes yes 220
Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6	ling to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz	mechanical load	V V %Us %Us	15000000 yes yes 220 80 110
Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6	bing to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz pick-up	mechanical load	v v %Us %Us %Us	15000000 yes yes 220 80 110 20
Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	ling to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz pick-up drop-out	mechanical load	V V %Us %Us	15000000 yes yes 220 80 110
Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6	bing to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz pick-up drop-out	mechanical load	v v %Us %Us %Us	15000000 yes yes 220 80 110 20
Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	ling to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz pick-up drop-out	mechanical load min max min max	v v %Us %Us %Us %Us %Us	15000000 yes yes 220 80 110 20 55
Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	bing to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz pick-up drop-out	mechanical load	v v v v v v v v v v s v v s v v v v	15000000 yes yes 220 80 110 20 55
Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	bing to IEC/EN 609474-4-1 60Hz of 60Hz coil powered at 60Hz pick-up drop-out sumption at 20°C of 60Hz coil powered at 60Hz	mechanical load min max min max	v v v v v v v v v v v v v v v v v v	15000000 yes yes 220 80 110 20 55 210 15
Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage AC average coil cons Dissipation at holding	ing to IEC/EN 609474-4-1 50Hz of 60Hz coil powered at 60Hz pick-up drop-out sumption at 20°C of 60Hz coil powered at 60Hz i ≤20°C 50Hz	mechanical load	v v v v v v v v v v s v v s v v v v	15000000 yes yes 220 80 110 20 55
Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage AC operating voltage	ing to IEC/EN 609474-4-1 50Hz of 60Hz coil powered at 60Hz pick-up drop-out sumption at 20°C of 60Hz coil powered at 60Hz 1 ≤20°C 50Hz	mechanical load	v v v v v v v v v v v v v v v v v v v	15000000 yes yes 220 80 110 20 55 210 15 5
Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage AC operating voltage AC average coil cons Dissipation at holding Max cycles frequency	ing to IEC/EN 609474-4-1 50Hz of 60Hz coil powered at 60Hz pick-up drop-out sumption at 20°C of 60Hz coil powered at 60Hz 1 ≤20°C 50Hz	mechanical load	v v v v v v v v v v v v v v v v v v	15000000 yes yes 220 80 110 20 55 210 15 5
Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage AC operating voltage Dissipation at holding Max cycles frequency Mechanical operation Operating times	ing to IEC/EN 609474-4-1 50Hz of 60Hz coil powered at 60Hz pick-up drop-out sumption at 20°C of 60Hz coil powered at 60Hz 1 ≤20°C 50Hz /	mechanical load	v v v v v v v v v v v v v v v v v v v	15000000 yes yes 220 80 110 20 55 210 15 5
Performance level B1 Mirror contats accord EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage AC operating voltage AC average coil cons Dissipation at holding Max cycles frequency Mechanical operation	ing to IEC/EN 609474-4-1 50Hz of 60Hz coil powered at 60Hz pick-up drop-out sumption at 20°C of 60Hz coil powered at 60Hz 1 ≤20°C 50Hz /	mechanical load	v v v v v v v v v v v v v v v v v v v	15000000 yes yes 220 80 110 20 55 210 15 5

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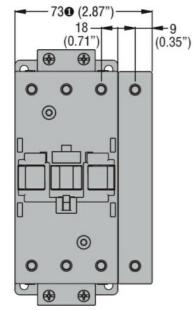


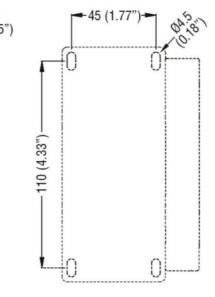
FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 70A, AC COIL 60HZ,

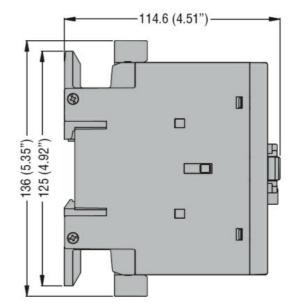
ENERGY AND AUTOMATION				
		min	ma	12
			ms	28
	Opening NO	max	ms	20
	Opening NO	min	ms	8
		max	ms	22
	in DC	IIIdA	1113	
	Closing NO			
		min	ms	40
		max	ms	85
	Opening NO			
		min	ms	20
		max	ms	55
UL technical data				
	LA) for three-phase AC motor			
	· ·	at 480V	А	40
		at 600V	A	32
Yielded mechanica	I performance			
	for single-phase AC motor			
	<u> </u>	110/120V	HP	3
		230V	HP	7.5
	for three-phase AC motor			
		200/208V	HP	10
		220/230V	HP	15
		460/480V	HP	30
		575/600V	HP	30
General USE				
	Contactor			
		AC current	А	70
Short-circuit protect	tion fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	А	150
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	150
A 1		Fuse class		RK5
Ambient conditions				
Temperature				
	Operating temperature	····	° ^	50
		min	°C °C	-50
	Storogo tomocraturo	max	°C	70
	Storage temperature		°C	60
		min	°C	-60 80
Max altitude		max		3000
Resistance & Prote	action		m	3000
Pollution degree				3
Dimensions				J
Differisions				



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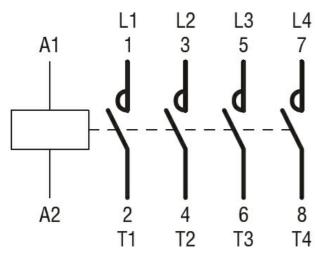






1 BF80T2 82mm/3.23"

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		
	222	
	cULus	
ETIM classification		
ETIM 8.0		EC000066 - Power contactor, AC switching

AC switching