



Product designation			Power contactor
Product type designation			BF65
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	max	A	100
Operational current le			100
	AC-1 (≤40°C)	А	100
	AC-1 (≤55°C)	A	80
	AC-1 (≤70°C)	A	70
	AC-3 (≤440V ≤55°C)	A	65
	AC-4 (400V)	A	31
Rated operational current AC-3 (T≤55°C)		Λ	51
	230V	А	65
	230V 400V	A	65
	400V 415V	A	65
	413V 440V	A	65
	440V 500V	A	53
	690V	A	53 47
	1000V	A	25
Rated operational power AC-1 (T≤40°C)	1000 v	Α	25
	230V	kW	20
	230V 400V	кvv kW	38
	400V 500V	кvv kW	65 82
	690V	kW	114
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series	690 V	KVV	114
The contrast current le in DCT with $L/R \leq 1$ ms with T poles in series	<0 A) (•	50
	≤24V	A	50 50
	48V	A	50 50
	75V	A	50
	110V	A	8
IFC may autrent to in DC1 with L/D < 1 may with 2 hales in series	220V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series	<0 A) (•	70
	≤24V	A	70
	48V	A	70
	75V	A	70
	110V	A	60
	220V	A	9
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			70
	≤24V	A	70
	48V	A	70
	75V	А	70

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FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 100A, AC COIL 50/60HZ, 400VAC

110V	А	60
220V	А	90
≤24V	А	70
48V	А	70
75V	А	70
110V	А	70
220V	Α	110
	А	35
		25
		25
		3
220V	A	_
		45
		40
		40
		30
220V	A	5
-0 () (
		55
		50
		50
		35
2200	A	52
<241	^	<u> </u>
		60 60
		60 60
		60 50
		50 65
2200		640
	A	040
	۸	125
• • •		80
		650
	A	050
440\/	٨	520
		425
		376
030 v		0.8
	11152	0.0
ltb	\٨/	8
		3.4
	vv	J.T
min	Nm	4
		4 5
		5 2.95
		3.69
		0.00
min	Nm	0.8
111111	INIT	0.0
max	Nm	1
	220V ≤24V 48V 75V 110V	220V A $\leq 24V$ A 48V A 75V A 110V A 220V A $\leq 24V$ A 48V A 75V A 110V A 220V A $\leq 24V$ A 48V A 75V A 110V A 220V A $\leq 24V$ A 48V A 75V A 110V A 220V A $\leq 24V$ A 48V A 75V A 110V A 220V A $\leq 24V$ A 48V A 75V A 110V A 220V A $\leq 24V$ A 48V A 75V A 110V A 20V A



FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 100A, AC COIL 50/60HZ, 400VAC

		min	Ibin	0.8
		max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			0
	Flovible w/o lug conductor acation	max		2
	Flexible w/o lug conductor section	min	mm²	1.5
		max	mm²	35
	Flexible c/w lug conductor section	Пах		00
		min	mm²	1.5
		max	mm²	35
Power terminal protect	tion according to IEC/EN 60529			IP20 front
Mechanical features	5			
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	1240
Conductor section				
	AWG/kcmil conductor section			
		max		2
Operations				
Mechanical life			cycles	15000000
Mechanical life Electrical life			cycles cycles	15000000 1400000
Mechanical life Electrical life Safety related data			-	
Mechanical life Electrical life Safety related data	0d according to EN/ISO 13489-1		cycles	1400000
Mechanical life Electrical life Safety related data	0d according to EN/ISO 13489-1	rated load	cycles cycles	1400000 1400000
Mechanical life Electrical life Safety related data Performance level B1		rated load mechanical load	cycles	1400000 1400000 15000000
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi	0d according to EN/ISO 13489-1 ing to IEC/EN 609474-4-1		cycles cycles	1400000 1400000 15000000 yes
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility			cycles cycles	1400000 1400000 15000000
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating	ing to IEC/EN 609474-4-1		cycles cycles cycles	1400000 1400000 15000000 yes yes
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 5	ing to IEC/EN 609474-4-1		cycles cycles	1400000 1400000 15000000 yes
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating	ing to IEC/EN 609474-4-1 50/60Hz		cycles cycles cycles	1400000 1400000 15000000 yes yes
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 5	ing to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz		cycles cycles cycles	1400000 1400000 15000000 yes yes
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 5	ing to IEC/EN 609474-4-1 50/60Hz	mechanical load	cycles cycles cycles V	1400000 1400000 15000000 yes yes 400
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 5	ing to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz		cycles cycles cycles	1400000 1400000 15000000 yes yes
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 5	ing to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz	mechanical load	cycles cycles cycles V	1400000 1400000 15000000 yes yes 400
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 5	ing to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up	mechanical load	cycles cycles cycles V	1400000 1400000 15000000 yes yes 400
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 5	ing to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up	mechanical load	cycles cycles cycles V V %Us %Us	1400000 1400000 15000000 yes yes 400 80 110
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 5	ing to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	mechanical load	cycles cycles cycles V V %Us %Us %Us	1400000 1400000 15000000 yes yes 400 80 110 20
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 5	ing to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out	mechanical load	cycles cycles cycles V V %Us %Us %Us %Us	1400000 1400000 15000000 yes yes 400 80 110 20 55
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 5	ing to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	mechanical load	cycles cycles cycles V V %Us %Us %Us %Us	1400000 1400000 15000000 yes yes 400 80 110 20 55 85
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 5	ing to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	mechanical load	cycles cycles cycles V V %Us %Us %Us %Us	1400000 1400000 15000000 yes yes 400 80 110 20 55
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 5	ing to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	mechanical load	cycles cycles cycles V V %Us %Us %Us %Us %Us %Us	1400000 1400000 15000000 yes yes 400 80 110 20 55 85 110
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 5	ing to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	mechanical load	cycles cycles cycles V V %Us %Us %Us %Us %Us %Us %Us	1400000 1400000 15000000 yes yes 400 80 110 20 55 85 110 40
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 5 AC operating voltage	ing to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	mechanical load	cycles cycles cycles V V %Us %Us %Us %Us %Us %Us	1400000 1400000 15000000 yes yes 400 80 110 20 55 85 110
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 5	ing to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	mechanical load	cycles cycles cycles V V %Us %Us %Us %Us %Us %Us %Us	1400000 1400000 15000000 yes yes 400 80 110 20 55 85 110 40
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 5 AC operating voltage	ing to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	mechanical load	cycles cycles cycles V V %Us %Us %Us %Us %Us %Us %Us %Us %Us	1400000 1400000 15000000 yes yes 400 80 110 20 55 85 110 40 55
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 5 AC operating voltage	ing to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	mechanical load	cycles cycles cycles V V %Us %Us %Us %Us %Us %Us %Us	1400000 1400000 15000000 yes yes 400 80 110 20 55 85 110 40

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FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 100A, AC COIL 50/60HZ,

400VAC

	of 50/60Hz coil power	ed at 60Hz			
	-		in-rush	VA	195
			holding	VA	13
	of 60Hz coil powered	at 60Hz			
			in-rush	VA	210
			holding	VA	15
Dissipation at holding	<20°C 50H-		Holding	W	5
				VV	5
Max cycles frequency				I /I	0000
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co					
	in AC				
		Closing NO			
			min	ms	12
			max	ms	28
		Opening NO			
			min	ms	8
			max	ms	22
	in DC				
		Closing NO			
		2.22.11g 1.0	min	ms	40
			max	ms	85
		Opening NO	Παλ	1113	00
			min	m 0	20
			min	ms	
			max	ms	55
UL technical data					
Full-load current (FLA)) for three-phase AC mo	otor		-	
			at 480V	A	65
			at 600V	А	62
Yielded mechanical pe	erformance				
	for three-phase AC m	otor			
			200/208V	HP	20
			220/230V	HP	25
			460/480V	HP	50
			575/600V	HP	60
General USE					
	Contactor				
			AC current	А	100
Short-circuit protectior	$h_{\rm heo} = 600 V$			Л	
Short-circuit protection					
	High fault		Object size it	1 4	100
			Short circuit current	kA	100
			Fuse rating	A	200
			Fuse class		J
	Standard fault				
			Short circuit current	kA	10
			Fuse rating	А	200
			Fuse class		RK5
Ambient conditions					
Temperature					
	Operating temperature	e			
	operating temperature	0	min	°C	-50
			11111		
			mov	°/ ·	
	Storogo tomo croture		max	°C	70
	Storage temperature		maxmin	0°	-60

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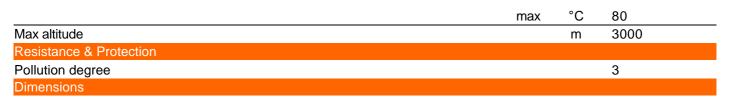


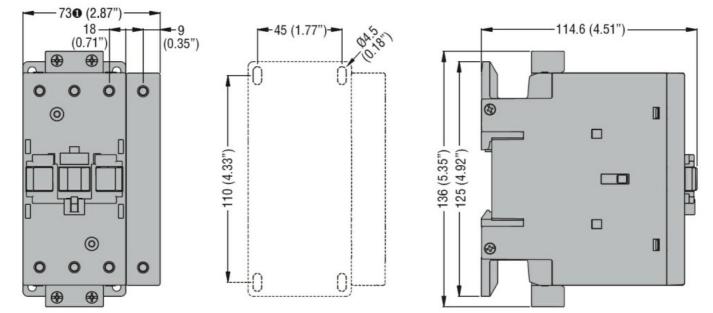
FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 100A, AC COIL 50/60HZ,

ENERGY AND AUTOMATION

400VAC

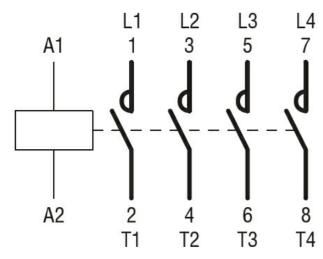
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BF80T2 82mm/3.23"

Wiring diagrams



Certifications and compliance

Complianc	e	
	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	
Certificate	3	
	CCC	
	cULus	
ETIM class	sification	
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FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 100A, AC COIL 50/60HZ, 400VAC

ETIM 8.0

EC000066 -Power contactor, AC switching