



Product designation			Power contactor
Product type designation			BF150
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		Α	165
Operational current le			
	AC-1 (≤40°C)	А	165
	AC-1 (≤55°C)	A	135
	AC-1 (≤70°C)	A	118
	AC-3 (≤440V ≤55°C)	A	150
	AC-4 (400V)	A	70
Rated operational current AC-3 (T≤55°C)	- (/		
	230V	А	150
	400V	А	150
	415V	А	150
	440V	А	150
	500V	А	128
	690V	А	113
	1000V	А	51
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series			
	≤24V	А	165
	48V	А	165
	75V	А	150
	110V	А	10
	220V	А	-
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	А	165
	48V	А	165
	75V	А	165
	110V	А	150
	220V	А	14
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	А	165
	48V	А	165
	75V	А	165
	110V	А	160
	220V	А	150
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	≤24V	А	165
	48V	А	165



FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 165A, AC COIL 50/60HZ, 110VAC

BF150T4A110

	75V	А	165
	110V	А	165
	220V	А	165
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series			
	≤24V	А	165
	48V	А	60
	75V	А	44
	110V	А	6
	220V	A	-
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series		_	
	≤24V	A	165
	48V	A	82
	75V	A	70
	110V	A	80
$I_{\rm EC}$ may summat be in DC2 DC5 with $1/D < 45$ may with 2 malos in series	220V	A	7
IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series	<241	۸	405
	≤24V 48V	A	165 105
	48V 75V	A A	195 110
	110V	A	120
	220V	A	120
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series	2200	~	120
	≤24V	А	165
	48V	A	130
	75V	A	130
	110V	A	150
	220V	A	150
Short-time allowable current for 10s (IEC/EN60947-1)		А	1200
Protection fuse			
	gG (IEC)	А	250
	aM (IEC)	А	160
Making capacity (RMS value)		А	1500
Breaking capacity at voltage			
Breaking capacity at voltage	440V	А	1200
Breaking capacity at voltage	440V 500V	A A	1200 1025
		A A	1025 905
Resistance per pole (average value)	500V	А	1025
	500V 690V	A A mΩ	1025 905 0.45
Resistance per pole (average value)	500V 690V Ith	A A mΩ W	1025 905 0.45 12
Resistance per pole (average value) Power dissipation per pole (average value)	500V 690V	A A mΩ	1025 905 0.45
Resistance per pole (average value)	500V 690V Ith AC-3	A A mΩ W W	1025 905 0.45 12 10.1
Resistance per pole (average value) Power dissipation per pole (average value)	500V 690V Ith AC-3 min	A MΩ W W Nm	1025 905 0.45 12 10.1 6
Resistance per pole (average value) Power dissipation per pole (average value)	500V 690V Ith AC-3 min max	A MΩ W W Nm Nm	1025 905 0.45 12 10.1 6 7
Resistance per pole (average value) Power dissipation per pole (average value)	500V 690V Ith AC-3 min max min	A MΩ W W Nm Ibin	1025 905 0.45 12 10.1 6 7 4.4
Resistance per pole (average value) Power dissipation per pole (average value) Tightening torque for terminals	500V 690V Ith AC-3 min max	A MΩ W W Nm Nm	1025 905 0.45 12 10.1 6 7
Resistance per pole (average value) Power dissipation per pole (average value)	500V 690V Ith AC-3 min max min max	A MΩ W W Nm Ibin Ibin	1025 905 0.45 12 10.1 6 7 4.4 5.2
Resistance per pole (average value) Power dissipation per pole (average value) Tightening torque for terminals	500V 690V Ith AC-3 min max min max min max	A A MΩ W W Nm Ibin Ibin	1025 905 0.45 12 10.1 6 7 4.4 5.2 0.8
Resistance per pole (average value) Power dissipation per pole (average value) Tightening torque for terminals	500V 690V Ith AC-3 min max min max	A MΩ W W Nm Ibin Ibin Ibin	1025 905 0.45 12 10.1 6 7 4.4 5.2 0.8 1
Resistance per pole (average value) Power dissipation per pole (average value) Tightening torque for terminals	500V 690V Ith AC-3 min max min max min max min max min	A MΩ W W Nm Ibin Ibin Ibin	1025 905 0.45 12 10.1 6 7 4.4 5.2 0.8 1 0.59
Resistance per pole (average value) Power dissipation per pole (average value) Tightening torque for terminals Tightening torque for coil terminal	500V 690V Ith AC-3 min max min max	A MΩ W W Nm Ibin Ibin Ibin	1025 905 0.45 12 10.1 6 7 4.4 5.2 0.8 1
Resistance per pole (average value) Power dissipation per pole (average value) Tightening torque for terminals Tightening torque for coil terminal Conductor section	500V 690V Ith AC-3 min max min max min max min max min	A MΩ W W Nm Ibin Ibin Ibin	1025 905 0.45 12 10.1 6 7 4.4 5.2 0.8 1 0.59
Resistance per pole (average value) Power dissipation per pole (average value) Tightening torque for terminals Tightening torque for coil terminal	500V 690V Ith AC-3 min max min max min max min max min	A MΩ W W Nm Ibin Ibin Ibin	1025 905 0.45 12 10.1 6 7 4.4 5.2 0.8 1 0.59

BF150T4A110 The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 165A, AC COIL 50/60HZ,

BF150T4A110 110VAC

Flexible wio lug conductor section min mm² 1.5 max mm² 70 Flexible civ lug conductor section mm² 1.5 max mm² 70 Power terminal protection according to IEC/EN 60529 IP20 front Mechanical features IP20 front Operating position normal allowable ±20 front Mechanical features screw / DIN rall 35mm Vertical plan 35mm 2420 Conductor section g 2420 Conductor section max 2/0 Operations cycles 1500000 Mechanical life cycles 1500000 Electrical life cycles 150/60Hz of 50/60Hz coil powered at 50Hz min %Us 50 pick-up min %Us </th <th></th> <th></th> <th></th> <th></th> <th></th>					
max mm² 70 Flexible c/w lug conductor section min mm² 70 Power terminal protection according to IEC/EN 60529 IP20 front IP20 front Mechanical features normal allowable Vertical plan allowable 30° Operating position normal allowable Vertical plan allowable 30° Fixing Screw / DIN rall allowable 35mm 36mm Weight g 2420 Conductor section 35mm Mechanical file cycles 15000000 36mm Bechanical file cycles 800000 30000 Safety related data yes 420 300000 Safety related data yes 40 conpatibility yes AC col poerating min %Us 80 Mc forp-out min %Us 55 of 50/60Hz coil powered at 50Hz min %Us 55 of 50/60Hz coil powered at 50Hz min %Us 55 of 50/60Hz coil powered at 50Hz min %Us 55 <		Flexible w/o lug conductor section			
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min mm² 1.5 max mm² 70 Power terminal protection according to IEC/EN 60529 IP20 front Mechanical features overlaating position IP20 front Coperating position normal Vertical plan allowable 30° 5 Fixing 35mm Screw / DIN rail Weight 9 2420 Conductor section max 2/0 Mechanical life cycles 1500000 Electrical life cycles 1500000 Electrical life cycles 1500000 Electrical life cycles 1500000 Electrical life cycles 100000 Electrical life cycles 100000 AC coll operating min %US 10 AC coll operating voltage of 50/60Hz coil powered at 50Hz min %US 20 max %US 10 max %US 55 of 50/60Hz coil powered at 60Hz min %US 55		Flexible c/w lug conductor section			
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drop-out drop-out min %Us 40 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 300 holding VA 20 of 50/60Hz coil powered at 60Hz in-rush VA 275 holding VA 17 of 60Hz coil powered at 60Hz in-rush VA 300 holding VA 20 Dissipation at holding ≤20°C 50Hz Kechanical operation Cycles/h 1500		pick-up			
drop-out min %Us 40 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz <u>nrush VA 300 holding VA 20 of 50/60Hz coil powered at 60Hz of 50/60Hz coil powered at 60Hz of 60Hz coil powered at 60Hz <u>nrush VA 275 holding VA 17 of 60Hz coil powered at 60Hz </u> <u>inrush VA 300 holding VA 17 of 60Hz coil powered at 60Hz </u> <u>insush VA 300 holding VA 20 Dissipation at holding ≤20°C 50Hz W 6.5 Max cycles frequency Mechanical operation cycles/h 1500 </u></u>			min	%Us	85
min %Us 40 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 300 holding VA 20 of 50/60Hz coil powered at 60Hz in-rush VA 20 of 50/60Hz coil powered at 60Hz in-rush VA 275 holding VA 17 of 60Hz coil powered at 60Hz in-rush VA 300 holding VA 20 Dissipation at holding ≤20°C 50Hz W 6.5 Max cycles frequency W 6.5 Max cycles frequency W 6.5 Max cycles/h 1500 Operating times Cycles/h 1500 Disclassing times			max	%Us	110
min %Us 40 max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 300 holding VA 20 of 50/60Hz coil powered at 60Hz in-rush VA 20 of 50/60Hz coil powered at 60Hz in-rush VA 275 holding VA 17 of 60Hz coil powered at 60Hz in-rush VA 300 holding VA 20 Dissipation at holding ≤20°C 50Hz W 6.5 Max cycles frequency W 6.5 Max cycles frequency W 6.5 Max cycles/h 1500 Operating times Cycles/h 1500 Disclassing times		drop-out			
max %Us 55 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 300 holding in-rush VA 20 of 50/60Hz coil powered at 60Hz in-rush VA 275 holding vA 17 of 60Hz coil powered at 60Hz in-rush VA 275 holding vA 17 in-rush VA 20 of 60Hz coil powered at 60Hz in-rush VA 20 Dissipation at holding ≤20°C 50Hz W 6.5 Max cycles frequency W 6.5 Mechanical operation cycles/h 1500 Operating times cycles/h 1500		·	min	%Us	40
AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 300 holding VA 20 of 50/60Hz coil powered at 60Hz in-rush VA 275 holding VA 17 of 60Hz coil powered at 60Hz in-rush VA 275 holding VA 17 of 60Hz coil powered at 60Hz in-rush VA 300 holding VA 20 0 0 Dissipation at holding ≤20°C 50Hz W 6.5 0 Max cycles frequency W 6.5 0 Mechanical operation cycles/h 1500 0 Operating times 0 0 0 0					
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in-rush VA 300 holding VA 20 of 50/60Hz coil powered at 60Hz in-rush VA 275 holding VA 17 of 60Hz coil powered at 60Hz in-rush VA 300 holding VA 20 Dissipation at holding ≤20°C 50Hz W 6.5 Max cycles frequency Mechanical operation cycles/h 1500 Operating times					
holdingVA20of 50/60Hz coil powered at 60Hzin-rush holdingVA275 holdingof 60Hz coil powered at 60Hzin-rush in-rushVA300 holdingof 60Hz coil powered at 60Hzin-rush vAVA300 holdingDissipation at holding ≤20°C 50HzW6.5Max cycles frequencyW6.5Mechanical operationcycles/h1500Operating timesVA1500			in-rueh	\/Δ	300
of 50/60Hz coil powered at 60Hzin-rush holdingVA VA275 holdingof 60Hz coil powered at 60HzVA17of 60Hz coil powered at 60Hzin-rush holdingVA300 holdingDissipation at holding ≤20°C 50HzW6.5Max cycles frequencyW6.5Mechanical operationcycles/h1500Operating timesVA100					
in-rush VA 275 holding VA 17 of 60Hz coil powered at 60Hz in-rush VA 300 holding VA 20 Dissipation at holding ≤20°C 50Hz W 6.5 Max cycles frequency Mechanical operation cycles/h 1500 Operating times		of 50/60Hz coil powered at 60Hz	noiuing	٧٨	20
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of 60Hz coil powered at 60Hz in-rush VA 300 holding VA 20 Dissipation at holding ≤20°C 50Hz W 6.5 Max cycles frequency Mechanical operation cycles/h 1500 Operating times					
in-rush holdingVA 300 VA300 20Dissipation at holding ≤20°C 50HzW6.5Max cycles frequencyUUMechanical operationcycles/h1500Operating timesUU			noiaing	VA	17
holdingVA20Dissipation at holding ≤20°C 50HzW6.5Max cycles frequencyVVMechanical operationcycles/h1500Operating timesVV		or 60Hz coil powered at 60Hz			
Dissipation at holding ≤20°C 50HzW6.5Max cycles frequencyCycles/h1500Mechanical operationcycles/h1500Operating timesCycles/h1500					
Max cycles frequency Mechanical operation cycles/h 1500 Operating times			holding		
Mechanical operation cycles/h 1500 Operating times		≤20°C 50Hz		W	6.5
Operating times	Max cycles frequency				
	Mechanical operation			cycles/h	1500
	Operating times				
	Average time for Us co	ontrol			

BF150T4A110



FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 165A, AC COIL 50/60HZ,

110VAC

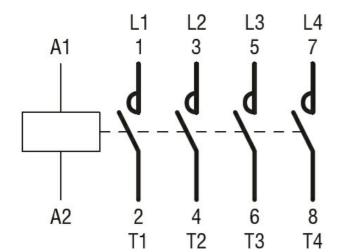
ENERGY AND AUTOMATION						TIUVAC
	in AC	<u>.</u>				
		Closing NC			4 -	
			min	ms	45	
			max	ms	32	
		Opening N			0	
			min	ms	9 24	
UL technical data			max	ms	24	
General USE						
General USE	Contactor					
	Contactor		AC current	А	165	
Short-circuit protection			AC current	~	105	
	High fault					
	riigiriault		Short circuit current	kA	100	
			Fuse rating	A	200	
			Fuse class	A	200 J	
	Standard fault				0	
			Short circuit current	kA	10	
			Fuse rating	A	250	
			Fuse class		RK5	
Ambient conditions						
Temperature						
•	Operating temperature	•				
			min	°C	-50	
			max	°C	70	
	Storage temperature					
			min	°C	-60	
			max	°C	80	
Max altitude				m	3000	
Dimensions						
→ 102 (4.01") —	- Br					
26.5 (1.04")	13,5 (0.53") - 62 (2.44")		= 144 (5.67")			
	(0.55)					
0 0 0 0		U				
Ø						
	4 ")-			08		
	151 (5.94")					
ט יישרי יין	1		- 169.2 (6.66") 164 (6.66") 164 (6.66") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46") 164 (6.46")			
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Wiring diagrams

BF150T4A110



BF150T4A110 FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 165A, AC COIL 50/60HZ, 110VAC



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	
	000
	cULus
	EAC
ETIM classification	

ETIM 8.0

EC000066 -Power contactor, AC switching