

ENERGY AND AUTOMATION

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



Product designation Power contactor Product type designation BF150

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)	Α	165
	AC-1 (≤55°C)	Α	135
	AC-1 (≤70°C)	Α	118
	AC-3 (≤440V ≤55°C)	Α	150
	AC-4 (400V)	Α	70
Rated operational current AC-3 (T≤55°C)			
	230V	Α	150
	400V	Α	150
	415V	Α	150
	440V	Α	150
	500V	Α	128
	690V	Α	113
	1000V	A	51
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series		_	
	≤24V	A	165
	48V	Α	165
	75V	Α	150
	110V	A	10
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	-0.41.4		
	≤24V	Α	165
	48V	Α	165
	75V	Α	165
	110V	Α	150
	220V	Α	14
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series		_	
	≤24V	A	165
	48V	A	165
	75V	Α	165
	110V	Α	160
150	220V	Α	150
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series		_	
	≤24V	Α	165
	48V	Α	165





FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 165A, AC COIL 60HZ, 120VAC

	75V	Α	165
	110V	Α	165
	220V	Α	165
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	165
	48V	Α	60
	75V	Α	44
	110V	A	6
150 DOO DOE 311 L/D 445 311 0 1 1 1	220V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	-0.1V		405
	≤24V	A	165
	48V	A	82
	75V	A	70
	110V	A	80
IFC many assument to in DC2 DC5 with L/D < 45 mag with 2 males in agrics	220V	A	7
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	~241 /	۸	105
	≤24V 48V	A	165 105
	48 V 75 V	A A	195 110
	110V	A	120
	220V	A	120
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	220 V		120
TEC max current le in DC3-DC3 with E/N = 13ms with 4 poles in series	≤24V	Α	165
	48V	A	130
	75V	A	130
	110V	A	150
	220V	A	150
Short-time allowable current for 10s (IEC/EN60947-1)	220 0	A	1200
Protection fuse			
	gG (IEC)	Α	250
	aM (IEC)	Α	160
Making capacity (RMS value)	()	Α	1500
Breaking capacity at voltage			
3 - 1 - 1 - 3 - 1 - 1 - 3 - 1 - 1 - 3 - 1 - 1	440V	Α	1200
	500V	Α	1025
	690V	Α	905
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)			_
, , , , , , , , , , , , , , , , , , , ,	Ith	W	12
	AC-3	W	10.1
Tightening torque for terminals			
	min	Nm	6
	max	Nm	7
	min	Ibin	4.4
	max	lbin	5.2
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.59
	max	Ibin	0.74
Conductor section			
AWG/Kcmil			
	max		2/0



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LIVERGY AND ACTOMATION					
	Elevible w/e lug conducto	or agation			
	Flexible w/o lug conducto	or section	min	mm²	1 E
			min	mm²	1.5
			max	mm²	70
	Flexible c/w lug conducto	or section		2	4 =
			min	mm²	1.5
			max	mm²	70
	tion according to IEC/EN 60	0529			IP20 front
Mechanical features					
Operating position					
			normal		Vertical plan
			allowable		±30°
Fixing					Screw / DIN rail
·					35mm
Weight				g	2420
Conductor section					
	AWG/kcmil conductor see	ction			
			max		2/0
Operations					
Mechanical life				cycles	15000000
Electrical life				cycles	800000
Safety related data					
EMC compatibility					yes
AC coil operating					
Rated AC voltage at 6	0Hz			V	120
AC operating voltage	<u> </u>			•	
710 operating vertage	of 60Hz coil powered at 6	S0Hz			
	·	pick-up			
	٩	non up	min	%Us	80
			max	%Us	110
	d	Irop-out	max	7003	110
	ŭ	πορ-οαί	min	%Us	20
			max	%Us	55
AC average coil consu	umption at 20°C		IIIax	/003	33
AC average con const		20Ll-			
	of 60Hz coil powered at 6	DUNZ	مام سیما	١/٨	200
			in-rush	VA	300
B: : : : : : : : : : : : : : : : : : :	10000 5011		holding	VA	20
Dissipation at holding	≤20°C 50HZ			W	6.5
Max cycles frequency					4.700
Mechanical operation				cycles/h	1500
Operating times					
Average time for Us of					
	in AC				
	C	Closing NO			
			min	ms	45
			max	ms	32
	C	Opening NO			
			min	ms	9
			max	ms	24
UL technical data					
General USE					
	Contactor				
	- ·-··		AC current	Α	165
Short-circuit protection	n fuse 600V			<u> </u>	
Short official protection	. 1455, 555 v				

3000

m

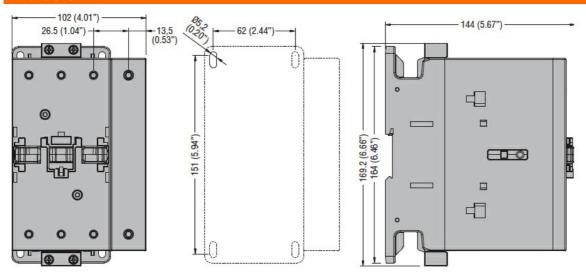


Ambient conditions
Temperature

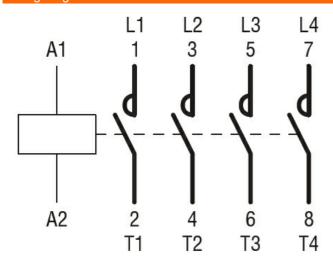
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High fault				
-	Short circuit current	kA	100	
	Fuse rating	Α	200	
	Fuse class		J	
Standard fault				
	Short circuit current	kA	10	
	Fuse rating	Α	250	
	Fuse class		RK5	
Operating temperature				
	min	°C	-50	
	max	°C	70	
Storage temperature				
	min	°C	-60	
	max	°C	80	

Max altitude Dimensions



Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1



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BF150T4A12060

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	IEC/EN/BS 60947-1
	IEC/EN/BS 60947-4-1
	UL 60947-1
	UL 60947-4-1
Certificates	
	CCC
	cULus
	EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching