

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 165A, AC COIL 60HZ, 230VAC



Product designation Power contactor
Product type designation BF150

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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	Α	51
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	Α	165
	48V	Α	165
	75V	Α	150
	110V	Α	10
	220V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	Α	165
	48V	Α	165
	75V	Α	165
	110V	Α	150
	220V	A	14
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	Α	165
	48V	Α	165
	75V	Α	165
	110V	Α	160
	220V	Α	150
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	165
	48V	Α	165



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	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	40 AV	•	4.0.5
	≤24V	A	165
	48V	A	60
	75V	A	44
	110V 220V	A A	6 _
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	220 V		
120 max current le in 200-200 with 2/10 13 with 2 poles in series	≤24V	Α	165
	48V	A	82
	75V	A	70
	110V	A	80
	220V	Α	7
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			<u>. </u>
	≤24V	Α	165
	48V	Α	195
	75V	Α	110
	110V	Α	120
	220V	Α	120
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	165
	48V	Α	130
	75V	Α	130
	110V	Α	150
	220V	Α	150
Short-time allowable current for 10s (IEC/EN60947-1)		Α	1200
Protection fuse			
	gG (IEC)	Α	250
	aM (IEC)	Α	160
Making capacity (RMS value)		Α	1500
Breaking capacity at voltage		_	
	440V	Α	1200
	500V	Α	1025
	690V	A	905
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)	141	147	40
	Ith	W	12
Tightening torque for terminals	AC-3	W	10.1
rightening torque for terminals	min	Nim	G
	min	Nm Nm	6 7
	max min	Ibin	<i>7</i> 4.4
		Ibin	5.2
Tightening torque for coil terminal	max	IUIII	J.2
rightering torque for contentinal	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.59
	max	Ibin	0.74
Conductor section	Шах		
AWG/Kcmil			
	max		2/0
	THO A		<i>_,</i> ₹



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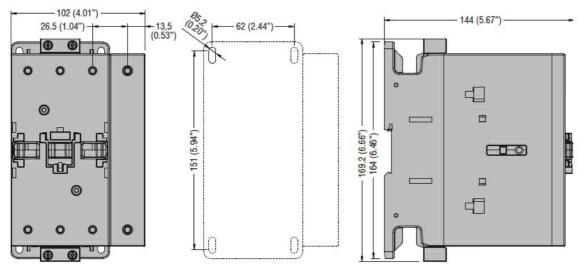
	Flexible w/o lug conductor section			
	<u> </u>	min	mm²	1.5
		max	mm²	70
	Flexible c/w lug conductor section			
		min	mm²	1.5
		max	mm²	70
Power terminal protect	ion according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing.				Screw / DIN rail
Fixing				35mm
Weight			g	2420
Conductor section				
	AWG/kcmil conductor section			
		max		2/0
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	800000
Safety related data				
EMC compatibility				yes
AC coil operating				, c
Rated AC voltage at 60)Hz		V	230
AC operating voltage			<u>-</u>	
to operating remage	of 50/60Hz coil powered at 50Hz			
	drop-out			
	drop out	max	%Us	55
	of 60Hz coil powered at 60Hz	max	7000	
	pick-up			
	pick up	min	%Us	80
		max	%Us	110
	dron-out	max	/003	110
	drop-out	min	%Us	20
			%Us	55
AC average coil consu	motion at 20°C	max	/005	33
average con consu	•			
	of 60Hz coil powered at 60Hz	المديد الم	١/٨	300
		in-rush	VA VA	20
Discipation at halding -	20°C 50H-	holding		
Dissipation at holding	.∠U ∪ ЭUП∠ 		W	6.5
Max cycles frequency			ovele = /i	1500
Mechanical operation			cycles/h	1500
Operating times	ntrol			
Average time for Us co				
	in AC			
	Closing N			4.5
		min	ms	45
	• •	max	ms	32
	Opening N			
		min	ms	9
		max	ms	24
UL technical data				
General USE	_			

Contactor

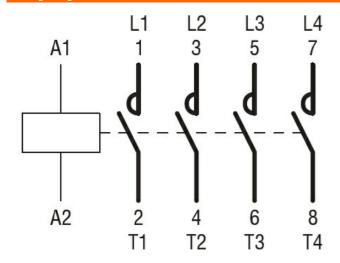
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		AC current	Α	165
Short-circuit protec	tion fuse, 600V			
	High fault			
	-	Short circuit current	kA	100
		Fuse rating	Α	200
		Fuse class		J
	Standard fault			
		Short circuit current	kA	10
		Fuse rating	Α	250
		Fuse class		RK5
Ambient conditions	;			
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Dimensions				

Dimensions



Wiring diagrams



Certifications and compliance

Compliance



BF150T4A23060

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	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
	FAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching