BF150T4A048



FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 165A, AC COIL 50/60HZ, 48VAC



Product designation			Power contacto BF150
Product type designation Contact characteristics			BF 130
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	1000
		kV	
Rated impulse withstand voltage Uimp		ĸv	8
Operational frequency			05
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		A	165
Operational current le			405
	AC-1 (≤40°C)	A	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	A	150
	400V	A	150
	415V	A	150
	440V	A	150
	500V	A	128
	690V	A	113
	1000V	A	51
EC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series			
	≤24V	A	165
	48V	A	165
	75V	А	150
	110V	А	10
	220V	A	-
EC 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	Α	14
EC 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



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	75V	А	165
	110V	А	165
	220V	А	165
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	А	165
	48V	А	60
	75V	А	44
	110V	А	6
	220V	А	_
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series			
	≤24V	А	165
	48V	А	82
	75V	А	70
	110V	А	80
	220V	А	7
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series			
	≤24V	А	165
	48V	A	195
	75V	A	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	2201	71	120
	≤24V	А	165
	48V	A	130
	40V 75V	A	130
	110V	A	150
	220V	A	150
Short-time allowable current for 10s (IEC/EN60947-1)	220 V	 A	1200
Protection fuse		Α	1200
	gG (IEC)	А	250
	aM (IEC)	A	160
Making capacity (RMS value)		A	1500
Breaking capacity at voltage		Λ	1300
Dreaking capacity at voltage	440V	А	1200
	440V 500V		
		A	1025
Desistence ner nele (everene velve)	690V	A	905
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)	14	147	10
	Ith	W	12
	AC-3	W	10.1
Tightening torque for terminals			
	min	Nm	6
	max	Nm	7
	min	lbin	4.4
	max	lbin	5.2
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.59
	max	Ibin	0.74
Conductor section			
AWG/Kcmil			
	max		2/0

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	Flexible w/o lug conductor section			
		min	mm²	1.5
		max	mm²	70
	Flexible c/w lug conductor section			
		min	mm²	1.5
		max	mm²	70
Power terminal protect	tion 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				
Rated AC voltage at 5	0/60Hz		V	48
AC operating voltage				
1 0 0	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	85
		max	%Us	110
	drop-out			
		min	%Us	40
		max	%Us	55
AC average coil consu	Imption 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		W	6.5
Max cycles frequency				
Mechanical operation			cycles/h	1500
Operating times				
Average time for Us co	ontrol			

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	in AC	.				
		Closing NO				
			min	ms	45	
			max	ms	32	
		Opening NO				
			min	ms	9	
			max	ms	24	
UL technical data						
General USE						
	Contactor					
	Contactor		AC current	А	165	
Short-circuit protection	n fusa 600V				100	
	High fault		Chart are it are t	L. A	100	
			Short circuit current	kA	100	
			Fuse rating	А	200	
			Fuse class		J	
	Standard fault					
			Short circuit current	kA	10	
			Fuse rating	А	250	
			Fuse class		RK5	
Ambient conditions						
Temperature						
·	Operating temperature	е				
			min	°C	-50	
			min max	ე° ე°	-50 70	
	Storage temperature		min max	°C °C	-50 70	
	Storage temperature		max	°C	70	
	Storage temperature		maxmin	°C °C	-60	
Movielijuda	Storage temperature		max	0° 0° 0°	70 -60 80	
Max altitude	Storage temperature		maxmin	°C °C	-60	
Max altitude Dimensions	Storage temperature		maxmin	0° 0° 0°	70 -60 80	
Dimensions	-1 .%		max min max	0° 0° 0°	70 -60 80	
Dimensions	-1 .%)	maxmin	0° 0° 0°	70 -60 80	
Dimensions			max min max	0° 0° 0°	70 -60 80	
Dimensions 102 (4.01") 26.5 (1.04")	-13,5 (0.53") 		max min max	0° 0° 0°	70 -60 80	
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Dimensions 102 (4.01") 26.5 (1.04") 0 0 0 0	-13.5 (0.53") -62 (2.44"		max min max	°C °C °C m	70 -60 80	
Dimensions 102 (4.01") 26.5 (1.04")	-13.5 (0.53") -62 (2.44"		max min max	°C °C °C m	70 -60 80	
Dimensions 102 (4.01") 26.5 (1.04") 0 0 0 0	-13.5 (0.53") -62 (2.44"		max min max	°C °C °C m	70 -60 80	
Dimensions 102 (4.01") 26.5 (1.04") 0 0 0 0	-13,5 (0.53") 		max min max	0° 0° 0°	70 -60 80	

Wiring diagrams

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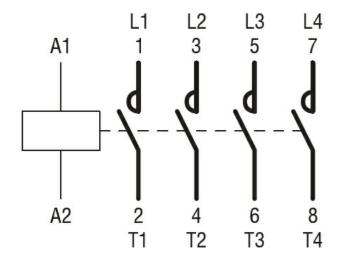
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BF150T4A048 FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 165A, AC COIL 50/60HZ, 48VAC



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	
	CCC
	cULus
	EAC
ETIM classification	n

ETIM 8.0

EC000066 -Power contactor, AC switching