



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	max	A	165
Operational current le		A	100
	AC-1 (≤40°C)	А	165
	AC-1 (≤40 C) AC-1 (≤55°C)		135
		A	135
	AC-1 (≤70°C) AC-3 (≤440V ≤55°C)	A	
	· · · · · · · · · · · · · · · · · · ·	A	150
	AC-4 (400V)	A	70
Rated operational current AC-3 (T≤55°C)	000)/	•	450
	230V	A	150
	400V	A	150
	415V	A	150
	440V	Α	150
	500V	Α	128
	690V	Α	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	Α	10
	220V	Α	_
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	A	150
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series	•		
	≤24V	А	165
	48V	A	165
	-0 V	Л	100



BF150T4A04860 FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 165A, AC COIL 60HZ, 48VAC

	75V	А	165
	110V	А	165
	220V	Α	165
IEC max current le in DC3-DC5 with L/R \leq 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 ≤ 15ms with 2 poles in series			
	≤24V	А	165
	48V	А	82
	75V	A	70
	110V	A	80
	220V	A	7
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series	2201		1
	≤24V	А	165
	≤24V 48V	A	195
	48V 75V		110
		A	
	110V	A	120
	220V	A	120
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series			
	≤24V	A	165
	48V	Α	130
	75V	Α	130
	110V	A	150
	220V	A	150
Short-time allowable current for 10s (IEC/EN60947-1)		A	1200
Protection fuse			
	gG (IEC)	А	250
	aM (IEC)	Α	160
Making capacity (RMS value)		Α	1500
Breaking capacity at voltage			
	440V	А	1200
	500V	А	1025
	690V	А	905
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)			
	lth	W	12
	AC-3	W	10.1
Tightening torque for terminals			
	min	Nm	6
			7
	max	Nm	7 4 4
	max min	Nm Ibin	4.4
Tightoning torque for coil terminal	max	Nm	
Tightening torque for coil terminal	max min max	Nm Ibin Ibin	4.4 5.2
Tightening torque for coil terminal	max min max min	Nm Ibin Ibin Nm	4.4 5.2 0.8
Tightening torque for coil terminal	max min max min max	Nm Ibin Ibin Nm Nm	4.4 5.2 0.8 1
Tightening torque for coil terminal	max min max min max min	Nm Ibin Ibin Nm Nm Ibin	4.4 5.2 0.8 1 0.59
	max min max min max	Nm Ibin Ibin Nm Nm	4.4 5.2 0.8 1
Conductor section	max min max min max min	Nm Ibin Ibin Nm Nm Ibin	4.4 5.2 0.8 1 0.59
	max min max min max min	Nm Ibin Ibin Nm Nm Ibin	4.4 5.2 0.8 1 0.59



BF150T4A04860 FOUR-POLE CONTACTOR. IEC OPERATING CURRENT ITH (AC1) = 165A, AC COIL 60HZ, С

electric	FOUR-POLE CONTACTOR, IEC OPERATIN	IG CURRENT ITH (AU	i) = (اد	5A, AC COIL 60HZ, 48VAC
ENERGY AND AUTOMATION				101710
	Flexible w/o lug conductor section			
	C C	min	mm²	1.5
		max	mm²	70
	Flexible c/w lug conductor section			
		min	mm²	1.5
		max	mm²	70
Power terminal prote	ction according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 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 6	0Hz		V	48
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	drop-out			
		max	%Us	55
	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			

AC average coil consumption at 20°C of 60Hz coil powered at 60Hz

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 control	
in AC	
Closing	NO
	min ms 45
	max ms 32
Opening	g NO
	min ms 9
	max ms 24
UL technical data	

General USE

Contactor

%Us

%Us

min

max

20

55

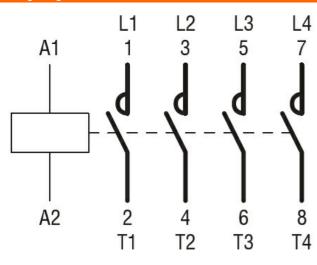
ENERGY AND AUTOMATION

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

ENERGY AND AUTOMATION				
		AC current	А	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	А	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") 020 - 144 (5.67") --- 13,5 (0.53") 26.5 (1.04") 62 (2.44") • Ð Ол 0 0 0 Ó 0 4 0 169.2 (6.66") - 164 (6.46") -151 (5.94") o 0 0 0 0 UU .

Wiring diagrams



Certifications and compliance Compliance



BF150T4A04860 FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 165A, AC COIL 60HZ, 48VAC

	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 classificatio	n	
		EC000066 -

ETIM 8.0

EC000066 -Power contactor, AC switching