BF15000A110



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 150A, AC COIL 50/60HZ, 110VAC



Product designation			Power contactor
Product type designation			BF150
Contact characteristics			
Number of poles		Nr.	3
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		А	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 power AC-3 (T≤55°C)	70 + (+001)	~	10
	230V	kW	45
	400V	kW	75
	400V 415V	kW	75
	413V 440V	kW	75 75
	440V 500V	kW	90
	690V	kW	110
	1000V	kW	55
Rated operational current AC-3 (T≤55°C)	1000 V		55
	230V	А	150
	230V 400V	A	150
	400V 415V	A	150
	413V 440V	A	150
	440V 500V	A	128
	690V		128
	1000V	A	51
IFC may surrent to in DC1 with L/D < 1ms with 1 pales in series	1000 v	A	51
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series	<0414	۸	405
	≤24V	A	165
	48V	A	165
	75V	A	150
	110V	A	10
	220V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			405
	≤24V	A	165
	48V	A	165
	75V	A	165
	110V	A	150
	220V	Α	14

## IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series



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	≤24V	А	165
	48V	А	165
	75V	А	165
	110V	А	160
	220V	А	150
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	А	165
	48V	A	165
	75V	A	165
	110V	A	165
	220V	A	165
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	2201	~	105
The max current is in DC3-DC5 with $L/R \le 1500$ with 1 poles in series	<04)/	^	405
	≤24V	A	165
	48V	A	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	А	165
	48V	А	82
	75V	А	70
	110V	А	80
	220V	A	7
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 3 poles in series			<u> </u>
	≤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 $\leq$ 15ms with 4 poles in series			
	≤24V	A	165
	48V	А	130
	75V	Α	130
	110V	А	150
	220V	А	150
Short-time allowable current for 10s (IEC/EN60947-1)		А	1200
Protection fuse			
	gG (IEC)	А	250
	aM (IEC)	A	160
Making capacity (RMS value)	···· (·=•)	A	1500
Breaking capacity at voltage		,,	
Droaking oupdoily at voltage	440V	А	1200
	500V		
		A	1025
	690V	A	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
	max	Nm	7
	min	Ibin	4.4
	max	Ibin	5.2
	max		0.2



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Tightening torque for				
3 . 3 . 1.	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	Ibin	0.59
		max	Ibin	0.74
Conductor section				
	AWG/Kcmil			
		max		2/0
	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 prote	ction according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
<b>F</b> ining a				Screw / DIN rail
Fixing				35mm
Weight			g	2020
Conductor section			Ŭ	
	AWG/kcmil conductor section			
		max		2/0
Operations				_, •
Mechanical life			cycles	15000000
			0)0.00	
Flectrical lite			cycles	800000
Electrical life Safety related data			cycles	800000
Safety related data			cycles	
Safety related data EMC compatibility			cycles	800000 yes
Safety related data EMC compatibility AC coil operating	50/60Hz			yes
Safety related data EMC compatibility AC coil operating Rated AC voltage at {			cycles V	
Safety related data EMC compatibility AC coil operating Rated AC voltage at {				yes
Safety related data EMC compatibility AC coil operating Rated AC voltage at {	of 50/60Hz coil powered at 50Hz			yes
Safety related data EMC compatibility AC coil operating Rated AC voltage at {		min	V	yes 110
Safety related data EMC compatibility AC coil operating Rated AC voltage at {	of 50/60Hz coil powered at 50Hz	min	V %Us	yes 110 80
Safety related data EMC compatibility AC coil operating Rated AC voltage at {	of 50/60Hz coil powered at 50Hz pick-up	min max	V	yes 110
Safety related data EMC compatibility AC coil operating Rated AC voltage at {	of 50/60Hz coil powered at 50Hz	max	V %Us %Us	yes 110 80 110
Safety related data EMC compatibility AC coil operating Rated AC voltage at \$	of 50/60Hz coil powered at 50Hz pick-up	max	V %Us %Us %Us	yes 110 80 110 20
Safety related data EMC compatibility AC coil operating Rated AC voltage at {	of 50/60Hz coil powered at 50Hz pick-up drop-out	max	V %Us %Us	yes 110 80 110
Safety related data EMC compatibility AC coil operating Rated AC voltage at \$	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max	V %Us %Us %Us	yes 110 80 110 20
Safety related data EMC compatibility AC coil operating Rated AC voltage at \$	of 50/60Hz coil powered at 50Hz pick-up drop-out	max min max	V %Us %Us %Us %Us	yes 110 80 110 20 55
Safety related data EMC compatibility AC coil operating Rated AC voltage at \$	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min	V %Us %Us %Us %Us	yes 110 80 110 20 55 85
Safety related data EMC compatibility AC coil operating Rated AC voltage at \$	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	max min max	V %Us %Us %Us %Us	yes 110 80 110 20 55
Safety related data EMC compatibility AC coil operating Rated AC voltage at \$	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min max	V %Us %Us %Us %Us %Us	yes 110 80 110 20 55 85 110
Safety related data EMC compatibility AC coil operating Rated AC voltage at {	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	max min max min max min	V %Us %Us %Us %Us %Us %Us	yes 110 80 110 20 55 85 110 40
Safety related data EMC compatibility AC coil operating Rated AC voltage at \$ AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max	V %Us %Us %Us %Us %Us	yes 110 80 110 20 55 85 110
Safety related data EMC compatibility AC coil operating Rated AC voltage at \$ AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min	V %Us %Us %Us %Us %Us %Us	yes 110 80 110 20 55 85 110 40
Safety related data EMC compatibility AC coil operating Rated AC voltage at \$ AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max	V %Us %Us %Us %Us %Us %Us %Us	yes 110 80 110 20 55 85 110 40 55
Safety related data EMC compatibility AC coil operating Rated AC voltage at \$ AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max	V %Us %Us %Us %Us %Us %Us %Us %Us %Us	yes 110 80 110 20 55 85 110 40 55 300
Safety related data EMC compatibility AC coil operating Rated AC voltage at \$ AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max	V %Us %Us %Us %Us %Us %Us %Us	yes 110 80 110 20 55 85 110 40 55
Safety related data EMC compatibility AC coil operating Rated AC voltage at \$ AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max in-rush holding	V %Us %Us %Us %Us %Us %Us %Us %Us %Us	yes 110 80 110 20 55 85 110 40 55 300 20
AC average coil cons	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max	V %Us %Us %Us %Us %Us %Us %Us %Us %Us	yes 110 80 110 20 55 85 110 40 55 300

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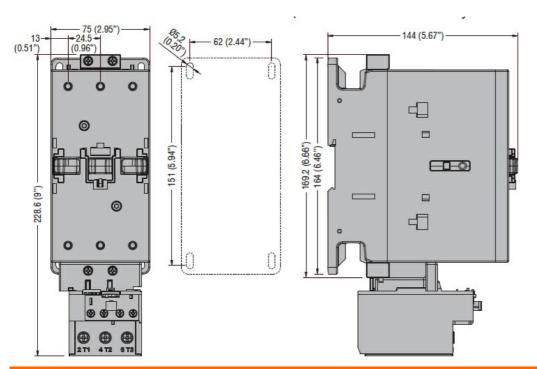


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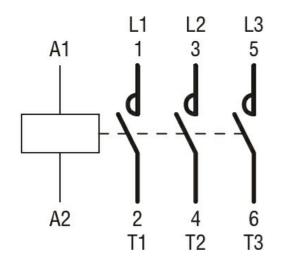
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	of 60Hz coil powered a	+ 60H-			
	of 60Hz coil powered a		in-rush	VA	300
			holding	VA VA	20
 Dissipation at holding ≤	<20°C 50H-		noiuing	W	6.5
Max cycles frequency				VV	0.5
				ovelee/b	1500
Mechanical operation Operating times				cycles/h	1500
Average time for Us co	optrol				
Average time for US CO	in AC				
	III AC	Closing NO			
			min	ms	45
			max	ms	32
		Opening NO	Παλ	1115	52
			min	ms	9
			max	ms	24
UL technical data				1110	27
Yielded mechanical pe	rformance				
neided meenamear pe	for three-phase AC mo	tor			
	ior intee-phase AC mo		200/208V	HP	50
			220/230V	HP	50
			460/480V	HP	100
			575/600V	HP	125
General USE			575/0007		125
	Contactor				
	Contactor		AC current	А	165
Short-circuit protection			AO current	Α	100
Chort circuit protection	High fault				
	riigiriadit		Short circuit current	kA	100
			Fuse rating	A	200
			Fuse class	7	J
	Standard fault		1 430 01433		0
			Short circuit current	kA	10
			Fuse rating	A	250
			Fuse class		RK5
Ambient conditions					
Temperature					
· · · · · · · · · · · · · · · · · · ·	Operating temperature				
			min	°C	-50
			max	°Č	70
	Storage temperature		man	-	-
			min	°C	-60
			max	°Č	80
Max altitude				m	3000
Dimensions					





Wiring diagrams



## 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		
	<u>CCC</u>	
	cULus	
ETIM classificatio	n	
ETIM 8.0		EC000066 - Power contactor, AC switching