

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



Product designation Power contactor Product type designation BF150

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		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 power AC-3 (T≤55°C)			
	230V	kW	45
	400V	kW	75
	415V	kW	75
	440V	kW	75
	500V	kW	90
	690V	kW	110
	1000V	kW	55
Rated operational current AC-3 (T≤55°C)			
	230V	Α	150
	400V	Α	150
	415V	Α	150
	440V	Α	150
	500V	A	128
	690V	A	113
150	1000V	Α	51
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	40.417	^	405
	≤24V	A	165
	48V	A	165
	75V	A	150
	110V	A	10
IFC may current le in DC1 with L/D < 1 mg with 2 males in series	220V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	≤24V	٨	165
	≤24V 48V	A	165
	48 V 75 V	A	165
	75V 110V	A A	150
	220V	A	14
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	2201		



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	≤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		,,	
120 max carrone in 201 mar 2/14 = time mar 1 poles in conce	≤24V	Α	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	220 V		100
120 max current le in 000-000 with bit 2 10m3 with 1 poles in series	≤24V	Α	165
	≤24 V 48 V	A	60
	75V	A	44
	110V	A	
			6
IFO and a summer to be DOO DOO with 1/D < 45 and with 0 and a fine and a	220V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	40.41.4		405
	≤24V	Α	165
	48V	Α	82
	75V	A	70
	110V	Α	80
	220V	A	7
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤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	Α	905
Resistance per pole (average value)	2001	mΩ	0.45
Power dissipation per pole (average value)		11132	0.10
. S. S. Sissipation por poro (avorago valuo)	Ith	W	12
	AC-3	W	10.1
Tightening torque for terminals	AU-3	V V	10.1
riginaring lorgue for terminals	min	Nim	6
	min	Nm	6
	max	Nm	7
	min	lbin	4.4
	max	lbin	5.2

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

Tightening torque for	coil terminal			
0 0 1		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 protec	ction according to IEC/EN 60529			IP20 front
Mechanical features	3. 10. 1. 10. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.			0
Operating position				
- 1		normal		Vertical plan
		allowable		±30°
		anomano		Screw / DIN rail
ixing				35mm
Veight			g	2020
Conductor section			3	
Somadotor dodtion	AWG/kcmil conductor section			
	/We/kernii coridacior section	max		2/0
Operations		Пах		Zi V
Mechanical life			cycles	15000000
Electrical life			cycles	800000
Safety related data			0,0.00	
EMC compatibility				yes
AC coil operating				yee
Rated AC voltage at 5				
	50/60Hz		V	24
AC operating voltage	50/60Hz		V	24
AC operating voltage			V	24
AC operating voltage	of 50/60Hz coil powered at 50Hz		V	24
AC operating voltage		min		
AC operating voltage	of 50/60Hz coil powered at 50Hz	min max	%Us	80
AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up	min max		
AC operating voltage	of 50/60Hz coil powered at 50Hz	max	%Us %Us	80 110
AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up	max min	%Us %Us %Us	80 110 20
AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out	max	%Us %Us	80 110
AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz	max min	%Us %Us %Us	80 110 20
AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out	max min max	%Us %Us %Us %Us	80 110 20 55
AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz	max min max min	%Us %Us %Us %Us	80 110 20 55
AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up	max min max	%Us %Us %Us %Us	80 110 20 55
AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz	max min max min max	%Us %Us %Us %Us %Us	80 110 20 55 85 110
AC operating voltage	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 max min	%Us %Us %Us %Us %Us	80 110 20 55 85 110
	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	%Us %Us %Us %Us %Us	80 110 20 55 85 110
AC operating voltage  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 min	%Us %Us %Us %Us %Us	80 110 20 55 85 110
	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 min max	%Us %Us %Us %Us %Us %Us %Us	80 110 20 55 85 110 40 55
	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	%Us %Us %Us %Us %Us %Us %Us	80 110 20 55 85 110 40 55
	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out  umption at 20°C of 50/60Hz coil powered at 50Hz	max min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us	80 110 20 55 85 110 40 55
	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	%Us %Us %Us %Us %Us %Us %Us %Us	80 110 20 55 85 110 40 55
	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out  umption at 20°C of 50/60Hz coil powered at 50Hz	max min max min max min max in-rush	%Us %Us %Us %Us %Us %Us %Us	80 110 20 55 85 110 40 55



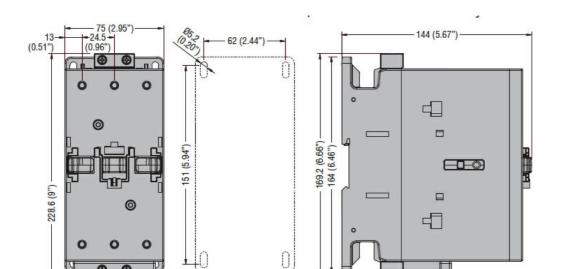


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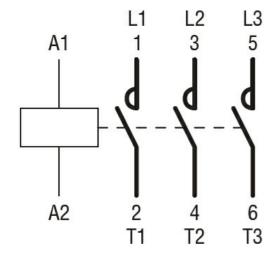
	of 60Hz coil powered a	t 60Hz			
			in-rush	VA	300
			holding	VA	20
Dissipation at holding ≤	20°C 50Hz			W	6.5
Max cycles frequency					
Mechanical operation				cycles/h	1500
Operating times					
Average time for Us con	ntrol				
- 1 <b>3</b> - 1 - 1 - 1 - 1	in AC				
		Closing NO			
		Closing 140	min	ms	45
			max	ms	32
		Opening NO	max	1113	32
		Opening NO	ma!	me	0
			min	ms	9
III to obside late			max	ms	24
UL technical data	of a way a sa a a				
Yielded mechanical per					
	for three-phase AC mo	tor	/		
			200/208V	HP	50
			220/230V	HP	50
			460/480V	HP	100
			575/600V	HP	125
General USE					
	Contactor				
			AC current	Α	165
Short-circuit protection	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	A	250
			Fuse class	73	RK5
Ambient conditions			1 036 01033		1110
Temperature					
i omperature	Operating temperature				
	Operating temperature		,	°C	<b>5</b> 0
			min		-50 -70
	01		max	°C	70
	Storage temperature			0.0	00
			min	°C	-60
			max	°C	80
Max altitude				m	3000
Dimensions					

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#### THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 150A, AC COIL 50/60HZ, 24VAC



#### 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

CCC

cULus

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching