



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		Α	165
Operational current le			
	AC-1 (≤40°C)	А	165
	AC-1 (≤55°C)	А	135
	AC-1 (≤70°C)	А	118
	AC-3 (≤440V ≤55°C)	А	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	А	150
	400V	А	150
	415V	А	150
	440V	А	150
	500V	А	128
	690V	А	113
	1000V	A	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	А	10
	220V	A	-
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 ≤ 1ms with 3 poles in series



	≤24V	А	165
	48V	A	165
	75V	А	165
	110V	А	160
	220V	A	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 \leq 15ms with 1 poles in series			
	≤24V	А	165
	48V	A	60
	48V 75V	A	44
	110V	A	6
	220V	A	0 _
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series	2201	A	-
The current is in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series	<0414	^	405
	≤24V	A	165
	48V	A	82
	75V	A	70
	110V	A	80
	220V	A	7
IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series			
	≤24V	А	165
	48V	А	195
	75V	А	110
	110V	А	120
	220V	Α	120
IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series			
	≤24V	А	165
	48V	А	130
	75V	А	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)	А	160
Making capacity (RMS value)		А	1500
Breaking capacity 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	AC-3	٧V	10.1
	min	Nim	6
	min	Nm	6
	max	Nm	7
	min	Ibin	4.4
	max	lbin	5.2



Tightening torque for c	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
	tion according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				Manthe - Lat
		normal		Vertical plan
		allowable		±30° Screw / DIN rail
Fixing				35mm
Weight			g	2020
Conductor section			9	2020
	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	24
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	drop-out			
		max	%Us	55
	of 60Hz coil powered at 60Hz			
	pick-up		0/11	
		min	%Us	80
		min	0/11	
		max	%Us	110
	drop-out	max		
	drop-out	max min	%Us	20
		max		
AC average coil consu	Imption at 20°C	max min	%Us	20
AC average coil consu		max min max	%Us %Us	20 55
AC average coil consu	Imption at 20°C	max min max in-rush	%Us %Us VA	20 55 300
	imption at 20°C of 60Hz coil powered at 60Hz	max min max	%Us %Us VA VA	20 55 300 20
Dissipation at holding	imption at 20°C of 60Hz coil powered at 60Hz	max min max in-rush	%Us %Us VA	20 55 300
AC average coil consu Dissipation at holding Max cycles frequency Mechanical operation	imption at 20°C of 60Hz coil powered at 60Hz	max min max in-rush	%Us %Us VA VA W	20 55 300 20 6.5
Dissipation at holding Max cycles frequency Mechanical operation	imption at 20°C of 60Hz coil powered at 60Hz	max min max in-rush	%Us %Us VA VA	20 55 300 20 6.5
Dissipation at holding	Imption at 20°C of 60Hz coil powered at 60Hz ≤20°C 50Hz	max min max in-rush	%Us %Us VA VA W	20 55 300 20 6.5

in AC

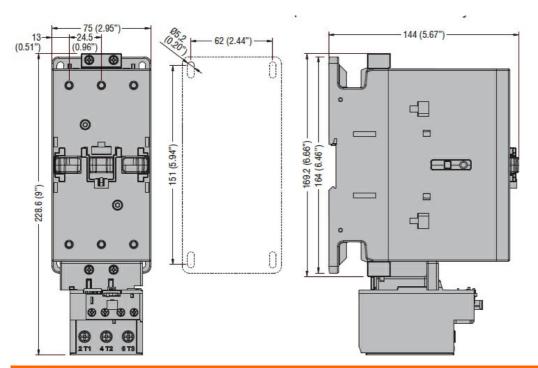
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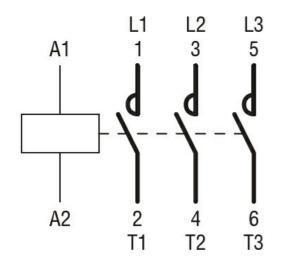
THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 150A, AC COIL 60HZ, 24VAC

Closing NO			
g	min	ms	45
	max	ms	32
Opening NO	max	inio	02
	min	ms	9
	max	ms	24
UL technical data	max	IIIO	2 -7
Yielded mechanical performance			
for three-phase AC motor			
tor three-phase AC motor	200/208V	HP	50
	200/208V 220/230V	HP	50
		пР HP	100
	460/480V		
	575/600V	HP	125
General USE			
Contactor			
	AC current	A	165
Short-circuit protection fuse, 600V			
High fault			
	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			
oporating temperature	min	°C	-50
	max	°C	70
Storago tomporaturo	IIIdX	U	10
Storage temperature		°C	60
	min	°C	-60
	max	°C	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		
	CCC	
	cULus	
ETIM classification	n	
ETIM 8.0		EC000066 - Power contactor, AC switching

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