



Product designation	Power contactor		
Product type designation	BF150		
<b>Contact characteristics</b>			
Number of poles	Nr.	3	
Rated insulation voltage $U_i$ IEC/EN	V	1000	
Rated impulse withstand voltage $U_{imp}$	kV	8	
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current $I_{th}$		A	165
Operational current $I_e$			
	AC-1 ( $\leq 40^\circ C$ )	A	165
	AC-1 ( $\leq 55^\circ C$ )	A	135
	AC-1 ( $\leq 70^\circ C$ )	A	118
	AC-3 ( $\leq 440V \leq 55^\circ C$ )	A	150
	AC-4 (400V)	A	70
Rated operational power AC-3 ( $T \leq 55^\circ C$ )			
	230V	kW	45
	400V	kW	75
	415V	kW	75
	440V	kW	75
	500V	kW	90
	690V	kW	110
	1000V	kW	55
IEC max current $I_e$ in DC1 with $L/R \leq 1ms$ with 1 poles in series			
	$\leq 24V$	A	165
	48V	A	165
	75V	A	150
	110V	A	10
	220V	A	—
IEC max current $I_e$ in DC1 with $L/R \leq 1ms$ with 2 poles in series			
	$\leq 24V$	A	165
	48V	A	165
	75V	A	165
	110V	A	150
	220V	A	14
IEC max current $I_e$ in DC1 with $L/R \leq 1ms$ with 3 poles in series			
	$\leq 24V$	A	165
	48V	A	165
	75V	A	165
	110V	A	160
	220V	A	150
IEC max current $I_e$ in DC1 with $L/R \leq 1ms$ with 4 poles in series			
	$\leq 24V$	A	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			
	≤24V	A	165
	48V	A	60
	75V	A	44
	110V	A	6
	220V	A	—
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤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 ≤ 15ms with 3 poles in series			
	≤24V	A	165
	48V	A	195
	75V	A	110
	110V	A	120
	220V	A	120
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	A	165
	48V	A	130
	75V	A	130
	110V	A	150
	220V	A	150
Short-time allowable current for 10s (IEC/EN60947-1)			A 1200
Protection fuse			
	gG (IEC)	A	250
	aM (IEC)	A	160
Making capacity (RMS value)			A 1500
Breaking capacity at voltage			
	440V	A	1200
	500V	A	1025
	690V	A	905
Resistance per pole (average value)			m? 0.45
Power dissipation per pole (average value)			
	I <sub>th</sub>	W	12
	AC3	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	lbin	0.59
	max	lbin	0.74
Conductor section			
	AWG/Kcmil		
		max	2/0

Flexible w/o lug conductor section	min	mm <sup>2</sup>	1.5		
	max	mm <sup>2</sup>	70		
Flexible c/w lug conductor section	min	mm <sup>2</sup>	1.5		
	max	mm <sup>2</sup>	70		
Power terminal protection according to IEC/EN 60529	IP20 front				
<b>Mechanical features</b>					
Operating position	normal allowable	Vertical plan ±30°			
Fixing	Screw / DIN rail 35mm				
Weight	g	2020			
Conductor section					
AWG/kcmil conductor section	max	2/0			
<b>Operations</b>					
Mechanical life	cycles	15000000			
Electrical life	cycles	800000			
<b>Safety related data</b>					
EMC compatibility	yes				
<b>AC coil operating</b>					
Rated AC voltage at 60Hz	V	220			
AC operating voltage					
of 60Hz coil powered at 60Hz					
pick-up	min	%Us	80		
	max	%Us	110		
drop-out	min	%Us	20		
	max	%Us	55		
AC average coil consumption at 20°C					
of 60Hz coil powered at 60Hz	in-rush holding	VA VA	300 20		
Dissipation at holding ≤20°C 50Hz	W	6.5			
<b>Max cycles frequency</b>					
Mechanical operation	cycles/h	1500			
<b>Operating times</b>					
Average time for Us control					
in AC					
Closing NO	min	ms	45		
	max	ms	32		
Opening NO	min	ms	9		
	max	ms	24		
<b>UL technical data</b>					
Yielded mechanical performance					
for three-phase AC motor	200/208V	HP	50		
	220/230V	HP	50		
	460/480V	HP	100		

575/600V HP 125

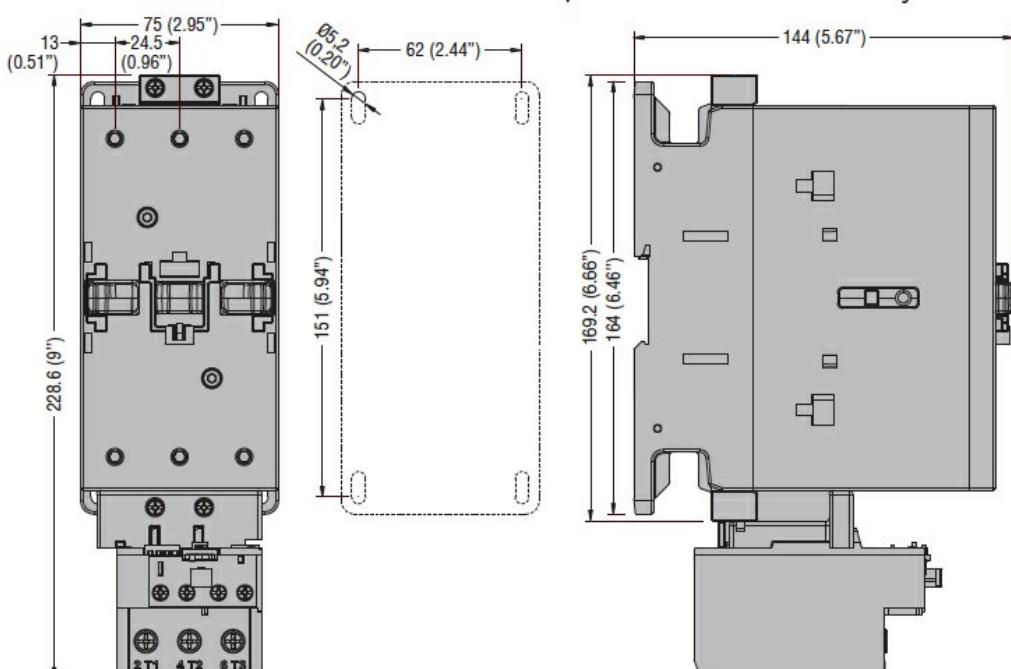
General USE

Contactor	AC current	A	165
Short-circuit protection fuse, 600V High fault	Short circuit current Fuse rating Fuse class	kA A J	100 200 RK5
Standard fault	Short circuit current Fuse rating Fuse class	kA A RK5	10 250

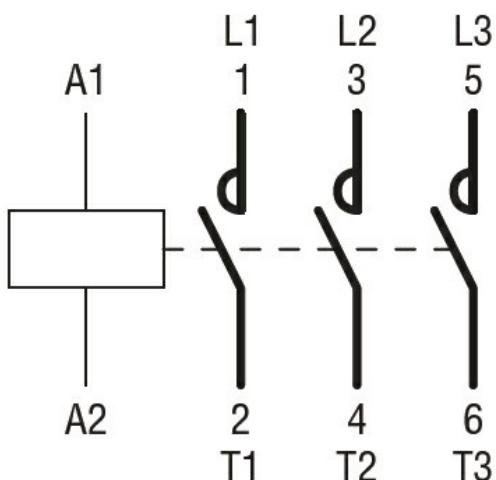
Ambient conditions

Temperature	Operating temperature	min °C	-50
		max °C	70
	Storage temperature	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 60947-1

IEC/EN 60947-4-1

UL 60947-1

UL 60947-4-1

##### Certificates

CCC

cULus

#### ETIM classification

ETIM 8.0

EC000066 -  
Power contactor,  
AC switching