



Product designation			Power contactor
Product type designation			BFD150
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		Α	165
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	400V	Α	165
	600V	Α	165
	V008	Α	125
	1000V	Α	100
Short-time allowable current for 10s (IEC/EN60947-1)		Α	1200
Protection fuse			
	gG (IEC)	Α	250
	aM (IEC)	Α	160
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)			
	Ith	W	12
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	Ibin	0.74
Max number of wires simultaneously connectable		Nr.	2
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 protection according to IEC/EN 60529			IP20 front
Mechanical features			

Operating position



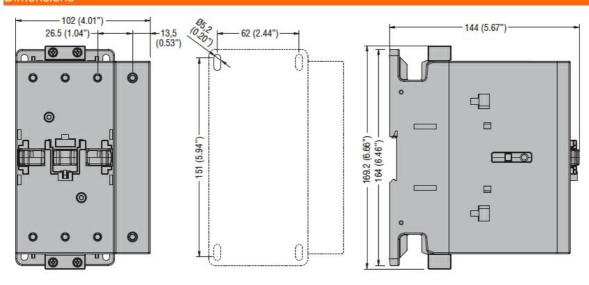
		normal allowable		Vertical plan ±30°
Fixing				Screw / DIN rail 35mm
Weight			g	2460
Conductor section				
	AWG/kcmil conductor section			
		max		2/0
Operations				4.500000
Mechanical life			cycles	15000000
Safety related data				.v.o.o
EMC compatibility  AC coil operating				yes
Rated AC voltage at 50	0/60Hz 60Hz			
Nated AC Voltage at 3	0/00/12, 00/12	min	V	60
		max	V	110
AC operating voltage		Тах	•	110
7.0 operating vertage	of 50/60Hz coil powered at 50Hz			
	pick-up			
	• •	min	%Us	80 Us min
		max	%Us	110 Us max
	drop-out			
		max	%Us	≤70 Us min
	of 50/60Hz coil powered at 60Hz			
	pick-up	_		
		min	%Us	80 Us min
	don and	max	%Us	110 Us max
	drop-out	may	%Us	≤70 Us min
AC average coil consu	umntion at 20°C	max	/005	270 05 11111
AC average con consc	of 50/60Hz coil powered at 50Hz			
	01 30/00112 0011 powered at 30112	in-rush	VA	70175
		holding	VA	1.73.5
	of 50/60Hz coil powered at 60Hz			
	'	in-rush	VA	70175
		holding	VA	1.73.5
	of 60Hz coil powered at 60Hz			
		in-rush	VA	70175
		holding	VA	1.73.5
Dissipation at holding:	≤20°C 50Hz		W	1.31,5
DC coil operating				
DC rated control voltage	ge			0.0
		min	V V	60 110
DC operating voltage		max	V	110
Do operating voltage	pick-up			
	plot up	min	%Us	80 Us min
		max	%Us	110 Us max
	drop-out			<u> </u>
	•	max	%Us	≤70 Us min
Average coil consump	tion ≤20°C			
·		in-rush	W	7080
		holding	W	1.31.5
Max cycles frequency				



Mechanical operation cycles/h 2000

modifical operation	' •			0,0.00,.		
Operating times						
Average time for Us	control					
· ·	in AC					
		Closing NO				
		5.55g . 15	min	ms	45	
			max	ms	40	
		Opening NO	max	1110	40	
		Opening NO	min	ms	24	
	· . DO		max	ms	60	
	in DC	0				
		Closing NO				
			min	ms	45	
			max	ms	90	
		Opening NO				
			min	ms	24	
			max	ms	60	
UL technical data						
General USE						
	Contactor					
			AC current	Α	165	
	4 poles in series DC	21				
	,		600V	Α	165	
Ambient conditions						
Temperature						
romporataro	Operating temperate	IrΔ				
	Operating temperati	ai C	min	°C	-40	
				°C	-40 70	
	Character to the control of the cont		max	<u> </u>	70	
	Storage temperature	9		0.0	50	
			min	°C	-50	
			max	°C	80	
Max altitude				m	3000	
Resistance & Protect	tion					
Pollution degree					3	

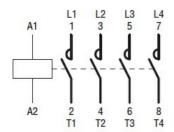
## **Dimensions**



## Wiring diagrams



**ENERGY AND AUTOMATION** 



## 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

cULus

## ETIM classification

**ETIM 8.0** 

EC000066 -Power contactor, AC switching