



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		А	165
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	400V	А	165
	600V	А	165
	800V	А	125
	1000V	А	100
Short-time allowable current for 10s (IEC/EN60947-1)		А	1200
Protection fuse			
	gG (IEC)	А	250
	aM (IEC)	А	160
Resistance per pole (average value)	· · · · · ·	mΩ	0.45
Power dissipation per pole (average value)			
	lth	W	12
Tightening torque for terminals			
	min	Nm	6
	max	Nm	7
	min	Ibin	4.4
	max	Ibin	5.2
Tightening torque for coil terminal			0.2
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.59
	max	Ibin	0.74
Max number of wires simultaneously connectable	max	Nr.	2
Conductor section			2
AWG/Kcmil			
AWO/Kenii	max		2/0
Flexible w/o lug conductor section	IIIdA		2/0
T lexible w/o lug conductor section	min	mm²	1.5
	max	mm²	70
Flexible c/w lug conductor section	Παλ		70
I IEADDE GIW TUY COTTUCCIOL SECTION	min	mm²	1.5
	min	mm²	70
Power terminal protection according to IEC/EN 60520	max	11111	
Power terminal protection according to IEC/EN 60529			IP20 front
Mechanical features			

Operating position

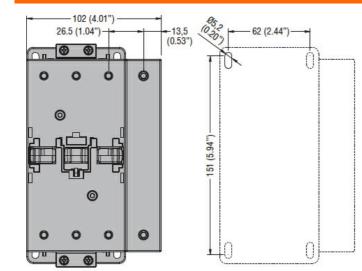


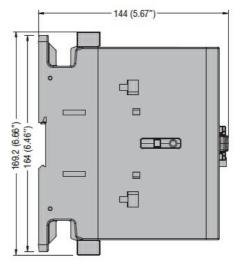
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	2460
Conductor section				
	AWG/kcmil conductor section			
		max		2/0
Operations				
Mechanical life			cycles	15000000
Safety related data				
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 5	0/60Hz, 60Hz		.,	
		min	V	20
<u> </u>		max	V	48
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up	<b>!</b> -	0/11-	
		min	%Us	80 Us min
	drop out	max	%Us	110 Us max
	drop-out	may	%Us	≤70 Us min
	of 50/60Hz coil powered at 60Hz	max	%05	570 05 11111
	pick-up			
	ρισκ-αρ	min	%Us	80 Us min
		max	%Us	110 Us max
	drop-out	Пал	/003	110 03 110
		max	%Us	≤70 Us min
AC average coil consu	Imption at 20°C	Пах	/000	
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	70175
		holding	VA	1.73.5
	of 50/60Hz coil powered at 60Hz	<b>0</b>		
		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 volta	ge			
		min	V	20
		max	V	48
DC operating voltage			_	
	pick-up			
		min	%Us	85 Us min
		max	%Us	110 Us max
	drop-out		_	
		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
Operating times					
Average time for Us co					
	in AC	Clasing NO			
		Closing NO	min	ms	45
			max	ms	40
		Opening NO	Пах	mo	40
		op 0	min	ms	24
			max	ms	60
	in DC				
		Closing NO			
			min	ms	45
			max	ms	90
		Opening NO			0.4
			min	ms	24 60
UL technical data			max	ms	60
General USE					
	Contactor				
	Contactor		AC current	А	165
	4 poles in series DC1				
			600V	А	165
Ambient conditions					
Temperature					
	Operating temperatur	e			
			min	°C	-40
	<u></u>		max	°C	70
	Storage temperature		min	°C	-50
			max	С О°	80
Max altitude			mux	 	3000
Resistance & Protection	on				
Pollution degree					3

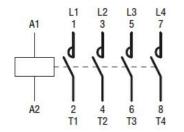
## Pollution degree Dimensions





## 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		
	cULus	
ETIM classification		
		EC000066 -

**ETIM 8.0** 

Power contactor, AC switching