



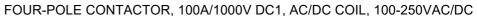
Product designation Product type designation				Power contactor BFD150
Contact characteristics				B1 B 100
Number of poles			Nr.	4
Rated insulation voltage Ui I	EC/EN		V	1000
Rated impulse withstand vol			kV	8
Operational frequency	3 1			
, ,		min	Hz	25
		max	Hz	400
IEC Conventional free air the	ermal current Ith		Α	165
Operational current le				
·		AC-1 (≤40°C)	Α	160
IEC max current le in DC1 v	vith L/R ≤ 1ms with 4 poles in series	,		
	·	400V	Α	165
		600V	Α	165
		800V	Α	125
		1000V	Α	100
Short-time allowable current	t for 10s (IEC/EN60947-1)		Α	1200
Protection fuse				
		gG (IEC)	Α	250
		aM (IEC)	Α	160
Resistance per pole (average	ge value)		mΩ	0.45
Power dissipation per pole (average value)			
		Ith	W	12
Tightening torque for termina	als			
		min	Nm	6
		max	Nm	7
		min	lbin	4.4
		max	lbin	5.2
Tightening torque for coil ter	minal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	0.59
		max	Ibin	0.74
Max number of wires simulta	aneously connectable		Nr.	2
Conductor section	0.04			
AW	G/Kcmil			0/0
	The television between Con-	max		2/0
Flex	xible w/o lug conductor section	1	na 12 - 2	4 5
		min	mm²	1.5
	sible also be a conductor and the	max	mm²	70
Flex	xible c/w lug conductor section		mm²	1 5
		min	mm²	1.5
Dower terminal and adiana	coording to IEC/EN 60500	max	mm²	70
Power terminal protection a	ccording to IEC/EN 60529			IP20 front



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Mechanical features				
Operating position				
		normal allowable		Vertical plan ±30°
Fixing				Screw / DIN rail
Veight			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 50	0/60Hz, 60Hz			
		min	V	100
		max	V	250
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80 Us min
	dana	max	%Us	110 Us max
	drop-out	min	0/116	20
		min	%Us %Us	∠∪ ≤70 Us min
	of 50/60Hz coil powered at 60Hz	max	7008	270 08 111111
	pick-up			
	ріск-ир	min	%Us	80 Us min
		max	%Us	110 Us max
	drop-out	Пах	7000	110 Co max
	arop out	min	%Us	20
		max	%Us	≤70 Us min
AC average coil consu	imption at 20°C			
3	of 50/60Hz coil powered at 50Hz			
	•	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
OC coil operating				
DC rated control voltag	ge			
		min	V	100
		max	V	250
OC operating voltage				
	pick-up			
		min	%Us	80 Us min
	- Leave t	max	%Us	110 Us max
	drop-out		0/17	<70.11 · · · ·
		max	%Us	≤70 Us min

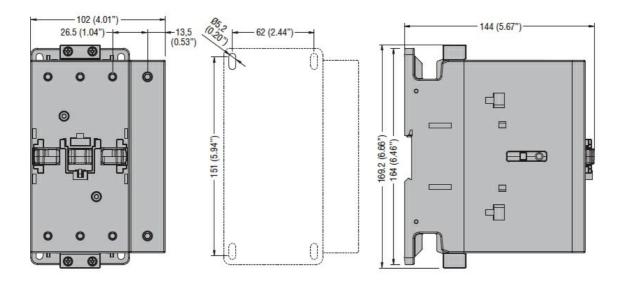




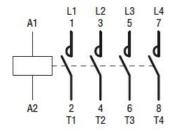


Average coil consumption ≤20°C in-rush W 70...80 holding W 1.3...1.5 Max cycles frequency Mechanical operation 2000 cycles/h Operating times Average time for Us control in AC Closing NO 45 min ms max ms 40 Opening NO 24 min ms max 60 ms in DC Closing NO min ms 45 90 max ms Opening NO ms 24 min max ms 60 UL technical data General USE Contactor AC current 165 Α 4 poles in series DC1 600V Α 165 Ambient conditions Temperature Operating temperature °C -40 min max °C 70 Storage temperature °C -50 min °C 80 max Max altitude 3000 Resistance & Protection Pollution degree 3 Dimensions

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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

ETIM 8.0

EC000066 -Power contactor, AC switching