



Product designation Product type designation			Power contactor BFD150
Contact characteristics			2.2.00
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
Operational current le			
	AC-1 (≤40°C)	Α	160
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	400V	Α	165
	600V	Α	165
	800V	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	lbin	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
Operations				
Mechanical life			cycles	15000000
Safety related data				
Performance level B10	Od according to EN/ISO 13489-1			
		mechanical load	cycles	15000000
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 50	0/60Hz, 60Hz			
		min	V	100
A O an anatin muselta na		max	V	250
AC operating voltage	of EO/GOHz and newared at EOHz			
	of 50/60Hz coil powered at 50Hz pick-up			
	рк-ир	min	%Us	80 Us min
		max	%Us	110 Us max
	drop-out		,,,,,	
	а. ор о а.	min	%Us	20
		max	%Us	≤70 Us min
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80 Us min
	_	max	%Us	110 Us max
	drop-out		0/11	0.0
		min	%Us	20
AC average seil sensu	umption at 20°C	max	%Us	≤70 Us min
AC average coil consu	of 50/60Hz coil powered at 50Hz			
	of 50/00/12 coil powered at 50/12	in-rush	VA	70175
		holding	VA	1.73.5
	of 50/60Hz coil powered at 60Hz	riolaing	٧, ١	1.11
	0. 00/00.12 00.1 powerou at 00.12	in-rush	VA	70175
		holding	VA	1.73.5
	of 60Hz coil powered at 60Hz	<u> </u>		
		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			100
		min	V	100
DC operation walters		max	V	250
DC operating voltage	nick up			
	pick-up	min	%Us	80 Us min
		max	%Us	110 Us max
	drop-out	IIIdA	/003	110 03 IIIax
		max	%Us	≤70 Us min
Average coil consump	tion ≤20°C			



70...80



FOUR-POLE CONTACTOR, 100A/1000V DC1, AC/DC COIL, 100-250VAC/DC

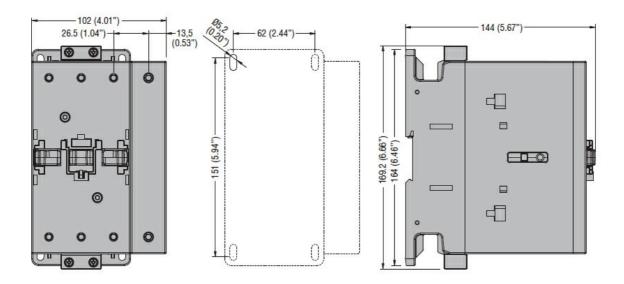
in-rush

W

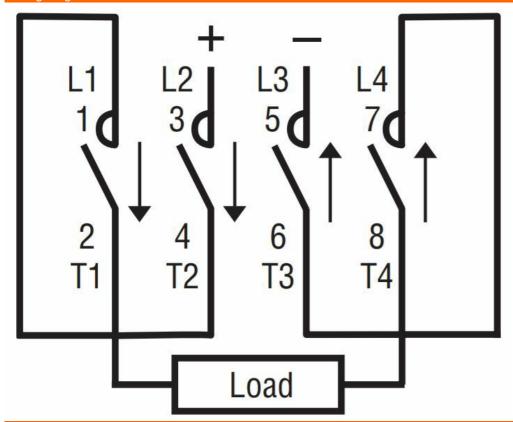
			holding	W	1.31.5	
Max cycles frequency			riolaling		1.01.0	
Mechanical operation				cycles/h	2000	
Operating times				Oy 0100/11	2000	
Average time for Us con	ntrol					
Average unite for 00 00	in AC					
	III AO	Closing NO				
		Closing 110	min	ms	45	
			max	ms	40	
		Opening NO	max	1110	40	
		Opening 110	min	ms	24	
			max	ms	60	
	in DC		παλ	1113		
	III DO	Closing NO				
		Closing NO	min	ms	45	
			max	ms	90	
		Opening NO	Παλ	1113	90	
		Opening NO	min	ms	24	
			max	ms	60	
UL technical data			Παλ	1113	00	
Rated operational voltage	ne AC (III)			V	600	
General USE	gc AO (OL)			v		
Ochciai OOL	Contactor					
	Contactor		AC current	Α	165	
	4 poles in series DC1		AC current	^	100	
	4 poles ili selles DC i		600V	Α	165	
Ambient conditions			000 v	A	100	
Temperature	Operating temperature					
	Operating temperature			°C	40	
			min	°C	-40 -70	
	0(max	°C	70	
	Storage temperature			۰.	50	
			min	°C	-50	
			max	°C	80	
Max altitude				m	3000	
Resistance & Protection						
Pollution degree					3	
Dimensions						



ENERGY AND AUTOMATION



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





FOUR-POLE CONTACTOR, 100A/1000V DC1, AC/DC COIL, 100-250VAC/DC

ETIM 8.0

EC000066 -Power contactor, AC switching