



Product designation Power contactor Product type designation BF150

1 rouder type designation			DI 100
Contact characteristics			
Number of poles		Nr.	3
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	165
	AC-1 (≤55°C)	Α	135
	AC-1 (≤70°C)	Α	118
	AC-3 (≤440V ≤55°C)	Α	150
	AC-4 (400V)	Α	70
Rated operational power AC-3 (T≤55°C)			
	230V	kW	45
	400V	kW	75
	415V	kW	75
	440V	kW	75
	500V	kW	90
	690V	kW	110
	1000V	kW	55
Rated operational current AC-3 (T≤55°C)			
	230V	Α	150
	400V	Α	150
	415V	Α	150
	440V	Α	150
	500V	Α	128
	690V	Α	113
	1000V	Α	51
Rated operational power AC-1 (T≤40°C)			
	230V	kW	62
	400V	kW	110
	500V	kW	136
	690V	kW	187
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	Α	165
	48V	Α	165
	75V	Α	150
	110V	Α	10
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series		_	
	≤24V	Α	165



	48V	Α	165
	75V	Α	165
	110V	Α	150
	220V	A	14
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	220 V		
IEC max current le in DCT with L/N 3 mis with 3 poles in series	<04)/	۸	105
	≤24V	A	165
	48V	Α	165
	75V	Α	165
	110V	Α	160
	220V	Α	150
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
·	≤24V	Α	165
	48V	Α	165
	75V	A	165
	110V	Α	165
	220V	Α	165
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	165
	48V	Α	60
	75V	Α	44
	110V	A	6
IFO	220V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	Α	165
	48V	Α	82
	75V	Α	70
	110V	Α	80
	220V	Α	7
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	2201	- , ,	<u> </u>
120 max out on to in 200 200 with 270 = 10mb with 6 poles in series	<24V	۸	165
	≤24V	A	165
	48V	Α	195
	75V	Α	110
	110V	Α	120
	220V	Α	120
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
·	≤24V	Α	165
	48V	Α	130
	75V	A	130
	110V	A	150
	220V	Α	150
Short-time allowable current for 10s (IEC/EN60947-1)		Α	1200
Protection fuse			
	gG (IEC)	Α	250
	aM (IEC)	Α	160
Making capacity (RMS value)	· -/	Α	1500
Breaking capacity at voltage			
broaking capacity at voltage	44017	۸	1200
	440V	A	1200
	500V	Α	1025
	690V	Α	905
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)			
1 1 (**********************************	Ith	W	12
	AC-3	W	10.1
Tightoning targue for terminals	AC-3	V V	10.1
Tightening torque for terminals			



BF15000E024

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 150A, AC/DC COIL, 20...48VAC/DC

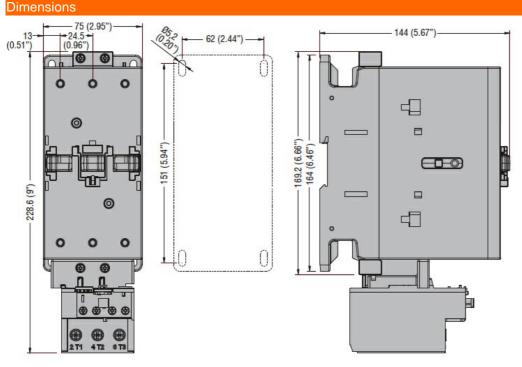
		min	Nm	6
		max	Nm	7
		min	lbin	35.4
		max	Ibin	44.3
Tightening torque for	coil terminal	max		1110
rigintering torque for	con terrinia	!	Nina	0.0
		min	Nm	0.8
		max	Nm	1
		min	lbin	0.59
		max	lbin	0.74
Conductor section				
	AWG/Kcmil			
		max		2/0
	Florible w/e lug conductor section	max		2,0
	Flexible w/o lug conductor section		2	4 5
		min	mm²	1.5
		max	mm²	70
	Flexible c/w lug conductor section			
		min	mm²	1.5
		max	mm²	70
Power terminal protect	ction according to IEC/EN 60529		*****	IP20 front
Mechanical features	bion according to ILO/LIN 00029			11 20 110111
Operating position				
		normal		Vertical plan
		allowable		±30°
F				Screw / DIN rail
Fixing				35mm
Weight			g	2060
Conductor section			9	
Conductor Section	ANA/O/I			
	AWG/kcmil conductor section			
		max		2/0
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	800000
Safety related data			, , , , , ,	
-	0d according to EN/ISO 13489-1			
renomiance level bi	od according to EN/13O 13469-1			000000
		rated load	cycles	800000
Mirror contats accord	ing to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 5	50/60Hz. 60Hz			
	· · · · · · · · · · · · · · · · · · ·	min	V	20
			V	48
AO		max	V	40
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	85 Us min
		max	%Us	110 Us max
	drop-out			
	arop-out	mov	%Us	≤70 Us min
	(F0/0011 '')	max	/oUS	≥10 05 IIIII
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	85 Us min
		max	%Us	110 Us max
	1			
	drop-out			



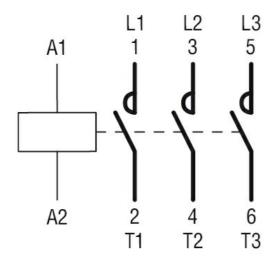
			max	%Us	≤70 Us min
AC average coil consu	ımption at 20°C				
	of 50/60Hz coil po	owered at 50Hz			
			in-rush	VA	70175
			holding	VA	1.73.5
	of 50/60Hz coil po	owered at 60Hz	:	١/٨	70 475
			in-rush holding	VA VA	70175 1.73.5
	of 60Hz coil powe	ared at 60Hz	Holding	VA	1.73.3
	or dor iz con powe	sieu at ouriz	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				
			min	V	20
			max	V	48
DC operating voltage					
	pick-up				
			min	%Us	80 Us min
			max	%Us	110 Us max
	drop-out			0/11-	<70 H=:
Average seil sensumn	tion <20°C		max	%Us	≤70 Us min
Average coil consump	uon ≤20 C		in-rush	W	7080
			holding	W	1.31.5
Max cycles frequency			Holding	VV	1.51.5
Mechanical operation				cycles/h	2000
Operating times				•	
Operating times Average time for Us co	ontrol				
	ontrol in AC			Í	
		Closing NO			
		Closing NO	min	ms	45
		-	min max		45 90
		Closing NO Opening NO	max	ms ms	90
		-	max min	ms ms	90
	in AC	-	max	ms ms	90
		Opening NO	max min	ms ms	90
	in AC	-	max min max	ms ms ms	90 24 60
	in AC	Opening NO	max min max min	ms ms ms ms	90 24 60 45
	in AC	Opening NO Closing NO	max min max	ms ms ms	90 24 60
	in AC	Opening NO	max min max min	ms ms ms ms	90 24 60 45
	in AC	Opening NO Closing NO	max min max min max	ms ms ms ms	90 24 60 45 90
Average time for Us co	in AC	Opening NO Closing NO	max min max min max min max	ms ms ms ms	90 24 60 45 90 24
Average time for Us co	in AC in DC	Opening NO Closing NO Opening NO	max min max min max min max	ms ms ms ms	90 24 60 45 90 24
Average time for Us co	in AC	Opening NO Closing NO Opening NO	max min max min max min max	ms ms ms ms ms	90 24 60 45 90 24 60
Average time for Us co	in AC in DC	Opening NO Closing NO Opening NO	max min max min max min max 200/208V	ms ms ms ms ms	90 24 60 45 90 24 60
Average time for Us co	in AC in DC	Opening NO Closing NO Opening NO	max min max min max min max 200/208V 220/230V	ms ms ms ms ms	90 24 60 45 90 24 60
Average time for Us co	in AC in DC	Opening NO Closing NO Opening NO	max min max min max min max min max 200/208V 220/230V 460/480V	ms ms ms ms ms HP HP	90 24 60 45 90 24 60 50 50
UL technical data Yielded mechanical pe	in AC in DC	Opening NO Closing NO Opening NO	max min max min max min max 200/208V 220/230V	ms ms ms ms ms	90 24 60 45 90 24 60
Average time for Us co	in AC in DC erformance for three-phase A	Opening NO Closing NO Opening NO	max min max min max min max min max 200/208V 220/230V 460/480V	ms ms ms ms ms HP HP	90 24 60 45 90 24 60 50 50
UL technical data Yielded mechanical pe	in AC in DC	Opening NO Closing NO Opening NO	max min max min max min max 200/208V 220/230V 460/480V 575/600V	ms ms ms ms ms ms	90 24 60 45 90 24 60 50 50 100 125
UL technical data Yielded mechanical pe	in AC in DC in DC erformance for three-phase A Contactor	Opening NO Closing NO Opening NO	max min max min max min max min max 200/208V 220/230V 460/480V	ms ms ms ms ms HP HP	90 24 60 45 90 24 60 50 50



	High fault			
		Short circuit current	kA	100
		Fuse rating	Α	200
		Fuse class		J
	Standard fault			
		Short circuit current	kA	10
		Fuse rating	Α	250
		Fuse class		RK5
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-40
		max	°C	70
	Storage temperature			
		min	°C	-50
		max	°C	80
Max altitude	<u> </u>		m	3000
Resistance & Protecti	on			
Pollution degree				3
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

CCC

cULus

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching