FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 165A, AC COIL 50/60HZ, 400VAC



Product designation Power contactor Product type designation BF150

Product type designation			BF150
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
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 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
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	Α	14
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series		_	
	≤24V	Α	165
	48V	A	165
	75V	A	165
	110V	A	160
150	220V	Α	150
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	-0.1V	^	405
	≤24V	A	165
	48V	Α	165



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	75V	Α	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	Α	6
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series		_	
	≤24V	Α	165
	48V	A	82
	75V	A	70
	110V	A	80
150	220V	Α	7
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	.0.43.4	_	
	≤24V	A	165
	48V	Α	195
	75V	Α	110
	110V	A	120
150	220V	Α	120
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	10 A) /		405
	≤24V	A	165
	48V	A	130
	75V	Α	130
	110V	Α	150
Chart time allowable assess for 40a (IEO/ENICO047.4)	220V	A	150
Short-time allowable current for 10s (IEC/EN60947-1)		Α	1200
Protection fuse	aC (IEC)	۸	250
	gG (IEC)	A	250
Making conceity (PMS value)	aM (IEC)	A A	160
Making capacity (RMS value)		A	1500
Breaking capacity at voltage	440V	۸	1200
	500V	A A	1200 1025
	690V	A	905
Resistance per pole (average value)	6907	mΩ	0.45
Power dissipation per pole (average value)		11122	0.45
Power dissipation per pole (average value)	Ith	W	12
	AC-3	W	10.1
Tightening torque for terminals	AO-3	VV	10.1
rightening torque for terminals	min	Nm	6
	min max	Nm	6 7
	min	Ibin	4.4
	max	lbin	5.2
Tightening torque for coil terminal	IIIdX	ווטו	J.L
rightening torque for contentinal	min	Nm	0.8
		Nm	
	max min	Ibin	1 0.59
Conductor section	max	Ibin	0.74
AWG/Kcmil			
AVVO/NOIIII	may		2/0
	max		<i>21</i> 0



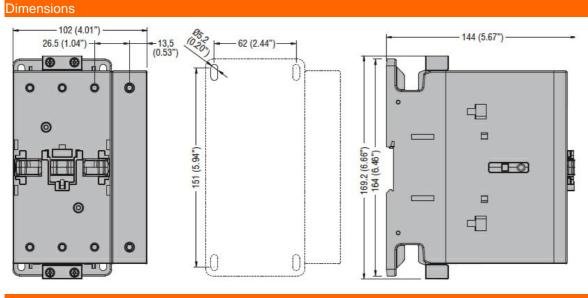


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	Flexible w/o lug conductor section			
	•	min	mm²	1.5
		max	mm²	70
	Flexible c/w lug conductor section			
		min	mm²	1.5
		max	mm²	70
Power terminal protect	ction according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Eiving				Screw / DIN rail
Fixing				35mm
Weight			g	2420
Conductor section				
	AWG/kcmil conductor section			
		max		2/0
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	800000
Safety related data				
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 5	50/60Hz		V	400
AC operating voltage				
, ,	of 50/60Hz coil powered at 50Hz			
	, pick-up			
	• •	min	%Us	80
		max	%Us	110
	drop-out			-
	and production	min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
	r - s - s r	min	%Us	85
		max	%Us	110
	drop-out			
	'	min	%Us	40
		max	%Us	55
AC average coil cons	umption at 20°C			
	of 50/60Hz coil powered at 50Hz			
	5. 50, 55. 1 <u>2</u> 55 ps5154 4. 55. 1 <u>2</u>	in-rush	VA	300
		holding	VA	20
	of 50/60Hz coil powered at 60Hz	9		
		in-rush	VA	275
		holding	VA	17
	of 60Hz coil powered at 60Hz			•
		in-rush	VA	300
		holding	VA	20
Dissipation at halding	≤20°C 50Hz	Holding	W	6.5
Dissipation at notation			• • •	3.3
Dissipation at holding Max cycles frequency Mechanical operation			cvcles/h	1500
			cycles/h	1500

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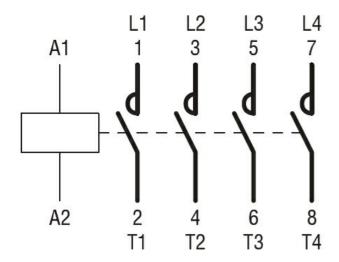
	in AC				
	III AC	Closing NO			
			min	ms	45
			max	ms	32
		Opening NO			
			min	ms	9
			max	ms	24
UL technical data					
General USE					
	Contactor			_	
<u> </u>			AC current	Α	165
Short-circuit protection					
	High fault				
			Short circuit current	kA	100
			Fuse rating	Α	200
			Fuse class		J
	Standard fault				
			Short circuit current	kA	10
			Fuse rating	Α	250
			Fuse class		RK5
Ambient conditions					
Temperature					
	Operating temperature				
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	80
Max altitude				m	3000



Wiring diagrams

ENERGY AND AUTOMATION

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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

EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching