ENERGY AND AUTOMATION

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



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	A	14
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	Α	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



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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	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			<u>. </u>
	≤24V	Α	165
	48V	A	195
	75V	Α	110
	110V	A	120
	220V	A	120
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	220 V		120
120 max current le in 200-200 with E/N = 15ms with 4 poles in series	≤24V	Α	165
	48V	A	130
	75V		130
	110V	A A	150
	220V		150
Short-time allowable current for 10s (IEC/EN60947-1)	220 V	A A	1200
Protection fuse		A	1200
Protection tuse	~C (IEC)	۸	250
	gG (IEC)	A	250
Maling and eiter (DMC color)	aM (IEC)	A	160
Making capacity (RMS value)		Α	1500
Breaking capacity at voltage	4.40\/	^	4000
	440V	A	1200
	500V	A	1025
	690V	A	905
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)			
	Ith	W	12
	AC-3	W	10.1
Tightening torque for terminals		_	_
	min	Nm	6
	max	Nm	7
	min	Ibin	4.4
	max	Ibin	5.2
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.59
	max	lbin	0.74
Conductor section			
AWG/Kcmil			
	max		2/0



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	Flexible w/o lug conductor section			
	r lexible w/o lag corladetor section	min	mm²	1.5
		max	mm²	70
	Flexible c/w lug conductor section	Пах		10
	r lexible c/w lug corrudctor section	min	mm²	1.5
		max	mm²	70
Power terminal protec	tion according to IEC/EN 60529	Παλ	111111	IP20 front
Mechanical features	tion according to 120/214 00029			11 20 110111
Operating position				
Operating position		normal		Vertical plan
		allowable		±30°
		allowable		Screw / DIN rail
Fixing				35mm
Weight				2420
Conductor section			g	2420
Conductor section	ANA/O//			
	AWG/kcmil conductor section			0/0
Onerations		max		2/0
Operations Machanian Life				45000000
Mechanical life			cycles	15000000
Electrical life			cycles	800000
Safety related data				
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 5	0/60Hz		V	24
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	85
		max	%Us	110
	drop-out			
		min	%Us	40
		max	%Us	55
AC average coil consu	umption at 20°C			
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	300
		holding	VA	20
	of 50/60Hz coil powered at 60Hz			
	,	in-rush	VA	275
		holding	VA	17
	of 60Hz coil powered at 60Hz			
		in-rush	VA	300
		holding	VA	20
Dissipation at holding	<20°C 50Hz	riolaling	W	6.5
Max cycles frequency			v v	J.U
Mechanical operation			cycles/h	1500
Operating times			Cycles/II	1300
	ontrol			
Average time for Us co	UHUU			

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

	in AC				
	III AC	Closing NO			
		Gloomig i vo	min	ms	45
			max	ms	32
		Opening NO			
			min	ms	9
			max	ms	24
UL technical data					
General USE					
	Contactor				
			AC current	Α	165
Short-circuit protection					
	High fault				
			Short circuit current	kA	100
			Fuse rating	Α	200
	<u> </u>		Fuse class		
	Standard fault		01 4 1 1		4.0
			Short circuit current	kA	10
			Fuse rating	Α	250
Ambient conditions			Fuse class		RK5
Ambient conditions					
Temperature	Operating temperature				
	Operating temperature	;	min	°C	-50
			max	°C	-30 70
	Storage temperature		IIIdX	<u> </u>	70
	Otorage temperature		min	°C	-60
			max	°C	80
Max altitude				m	3000

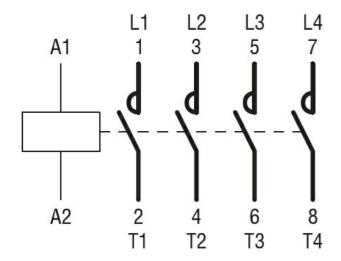
Wiring diagrams

Dimensions

102 (4.01")

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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