

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 150A, AC COIL 50/60HZ, 24VAC



Product designation Power contactor Product type designation BF150

Product type designation			BF150
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
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	A	10
150	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series		_	
	≤24V	A	165
	48V	A	165
	75V	A	165
	110V	A	150
IFC may current le in DC1 with L/R < 1ms with 3 notes in series	220V	Α	14

IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series



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	≤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
	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	.0.01		
	≤24V	Α	165
	48V	A	195
	75V	A	110
	110V	A	120
IFC many augment to in DC2 DC5 with L/D < 45 man with 4 males in agrica	220V	A	120
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	≤24V	۸	165
	≤24 V 48 V	A A	130
	75V	A	130
	110V	A	150
	220V	A	150
Short-time allowable current for 10s (IEC/EN60947-1)	220 V		1200
Protection fuse			1200
1 TOTOGLIOTI TUGO	gG (IEC)	Α	250
	aM (IEC)	A	160
Making capacity (RMS value)	aivi (IEO)	A	1500
Breaking capacity at voltage			
2.caming capacity at venage	440V	Α	1200
	500V	A	1025
	690V	Α	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	lbin	4.4
	max	lbin	5.2



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Tightening torque for	 coil terminal			
0 0 1		min	Nm	0.8
		max	Nm	1
		min	Ibin	0.59
		max	Ibin	0.74
Conductor section				
	AWG/Kcmil			
		max		2/0
	Flexible w/o lug conductor section			
	S	min	mm²	1.5
		max	mm²	70
	Flexible c/w lug conductor section			
	C	min	mm²	1.5
		max	mm²	70
Power terminal protec	ction according to IEC/EN 60529			IP20 front
Mechanical features	g a constant			
Operating position				
pporaurig pooruori		normal		Vertical plan
		allowable		±30°
		anomable		Screw / DIN rai
ixing				35mm
Veight			g	2020
Operations			9	
Mechanical life			cycles	15000000
Electrical life			cycles	800000
Safety related data			O y O l O O	000000
	0d according to EN/ISO 13489-1			
Chomianoc icver Bi	to according to ENVICO 10400 1	rated load	cycles	800000
		mechanical load	cycles	15000000
EMC compatibility		moonamoa road	0,0.00	yes
AC coil operating				yee
Rated AC voltage at 5				
tatou / to tollago at t	50/60Hz		V	24
	50/60Hz		V	24
			V	24
	of 50/60Hz coil powered at 50Hz		V	24
		min		
	of 50/60Hz coil powered at 50Hz	min max	%Us	80
	of 50/60Hz coil powered at 50Hz pick-up	min max		
	of 50/60Hz coil powered at 50Hz	max	%Us %Us	80 110
AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up	max min	%Us %Us %Us	80 110 20
	of 50/60Hz coil powered at 50Hz pick-up drop-out	max	%Us %Us	80 110
	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min	%Us %Us %Us	80 110 20
	of 50/60Hz coil powered at 50Hz pick-up drop-out	max min max	%Us %Us %Us %Us	80 110 20 55
	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min	%Us %Us %Us %Us	80 110 20 55
	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	max min max	%Us %Us %Us %Us	80 110 20 55
	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min max	%Us %Us %Us %Us %Us	80 110 20 55 85 110
	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	max min max min max min max min	%Us %Us %Us %Us %Us	80 110 20 55 85 110 40
AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max	%Us %Us %Us %Us %Us	80 110 20 55 85 110
	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max min	%Us %Us %Us %Us %Us	80 110 20 55 85 110 40
AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	min max min max min max	%Us %Us %Us %Us %Us %Us %Us	80 110 20 55 85 110 40 55
AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max in-rush	%Us %Us %Us %Us %Us %Us	80 110 20 55 85 110 40 55
AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out umption at 20°C of 50/60Hz coil powered at 50Hz	min max min max min max	%Us %Us %Us %Us %Us %Us %Us	80 110 20 55 85 110 40 55
AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	min max min max min max min max in-rush holding	%Us %Us %Us %Us %Us %Us %Us %Us	80 110 20 55 85 110 40 55
AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out umption at 20°C of 50/60Hz coil powered at 50Hz	max min max min max min max in-rush	%Us %Us %Us %Us %Us %Us	80 110 20 55 85 110 40 55



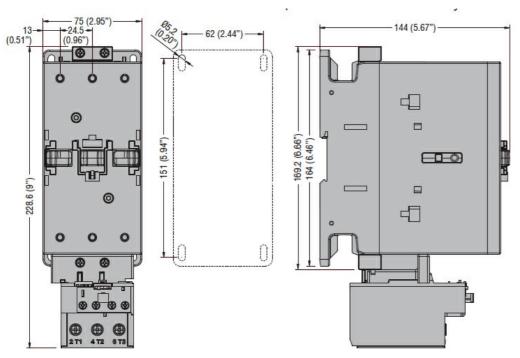


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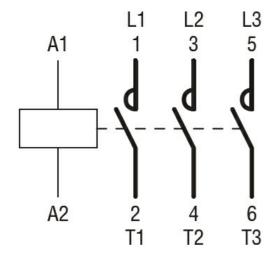
	of 60Hz coil powered at 6	60Hz			
			in-rush	VA	300
			holding	VA	20
Dissipation at holding ≤	20°C 50Hz			W	6.5
Max cycles frequency					
Mechanical operation				cycles/h	1500
Operating times				,	
Average time for Us co	ntrol				
	in AC				
		Closing NO			
	_		min	ms	45
			max	ms	32
		pening NO			~ _
		F 51 9 . 10	min	ms	9
			max	ms	24
UL technical data			IIIAX	1110	
Rated operational volta	ine AC (III.)			V	600
Yielded mechanical pe				V	000
rielueu mechanicai pe		-			
	for three-phase AC motor		200/208V	HP	50
			220/230V	HP	50
			460/480V	HP	100
0			575/600V	HP	125
General USE	0 1 1				
	Contactor		• • • • • • • • • • • • • • • • • • • •		405
<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
Dimensions					

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 150A, AC COIL 50/60HZ,



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