

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 150A, AC COIL 60HZ, 230VAC



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
EC 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



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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	A	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	<04)/	۸	405
	≤24V 48V	A	165
	48 V 75 V	A	195
	110V	A A	110 120
	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 te in 200-200 with E/N = 10m3 with 4 poles in 30mes	≤24V	Α	165
	48V	Α	130
	75V	A	130
	110V	Α	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			_
	440V	Α	1200
	500V	Α	1025
	690V	Α	905
Resistance per pole (average value)		$m\Omega$	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	lbin	5.2



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T' - 1 (' ((
Tightening torque for c	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	0.59
		max	lbin	0.74
Conductor section				
	AWG/Kcmil			
		max		2/0
	Flexible w/o lug conductor section			
	C	min	mm²	1.5
		max	mm²	70
	Flexible c/w lug conductor section			
	The second of the same of the second of the	min	mm²	1.5
		max	mm²	70
Power terminal protec	tion according to IEC/EN 60529			IP20 front
Mechanical features	tion deportantly to 12-0, 211 00020			11 20 110110
Operating position				
Spording position		normal		Vertical plan
		allowable		±30°
		allowable		Screw / DIN rail
ixing				35mm
Veight			α	2020
Conductor section			g	2020
Conductor Section	ANAC (komil conductor acction			
	AWG/kcmil conductor section			0/0
Drauations		max		2/0
Operations			avala a	15000000
Mechanical life				15000000
T1 (-2 1 12 f -			cycles	
			cycles	800000
Safety related data			-	800000
Safety related data EMC compatibility			-	
Safety related data EMC compatibility AC coil operating			cycles	800000 yes
Safety related data EMC compatibility AC coil operating Rated AC voltage at 6	0Hz		-	800000
Safety related data EMC compatibility AC coil operating Rated AC voltage at 6			cycles	800000 yes
Safety related data EMC compatibility AC coil operating Rated AC voltage at 6	0Hz of 50/60Hz coil powered at 50Hz		cycles	800000 yes
Safety related data EMC compatibility AC coil operating Rated AC voltage at 6			cycles V	800000 yes 230
Safety related data EMC compatibility AC coil operating Rated AC voltage at 6	of 50/60Hz coil powered at 50Hz drop-out	max	cycles	800000 yes
Safety related data EMC compatibility AC coil operating Rated AC voltage at 6	of 50/60Hz coil powered at 50Hz	max	cycles V	800000 yes 230
Electrical life Safety related data EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	of 50/60Hz coil powered at 50Hz drop-out	max	cycles V	800000 yes 230
Safety related data EMC compatibility AC coil operating Rated AC voltage at 6	of 50/60Hz coil powered at 50Hz drop-out of 60Hz coil powered at 60Hz	max	cycles V	800000 yes 230
Safety related data EMC compatibility AC coil operating Rated AC voltage at 6	of 50/60Hz coil powered at 50Hz drop-out of 60Hz coil powered at 60Hz		v V %Us	800000 yes 230
Safety related data EMC compatibility AC coil operating Rated AC voltage at 6	of 50/60Hz coil powered at 50Hz drop-out of 60Hz coil powered at 60Hz	min	v V %Us	800000 yes 230 55
Safety related data EMC compatibility AC coil operating Rated AC voltage at 6	of 50/60Hz coil powered at 50Hz drop-out of 60Hz coil powered at 60Hz pick-up	min	v V %Us	800000 yes 230 55
Safety related data EMC compatibility AC coil operating Rated AC voltage at 6	of 50/60Hz coil powered at 50Hz drop-out of 60Hz coil powered at 60Hz pick-up	min max	v %Us %Us %Us	800000 yes 230 55 80 110
Safety related data EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	of 50/60Hz coil powered at 50Hz drop-out of 60Hz coil powered at 60Hz pick-up drop-out	min max min	v %Us %Us %Us %Us	800000 yes 230 55 80 110 20
Safety related data EMC compatibility AC coil operating Rated AC voltage at 6	of 50/60Hz coil powered at 50Hz drop-out of 60Hz coil powered at 60Hz pick-up drop-out	min max min	v %Us %Us %Us %Us	800000 yes 230 55 80 110 20
Safety related data EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	of 50/60Hz coil powered at 50Hz drop-out of 60Hz coil powered at 60Hz pick-up drop-out	min max min	v %Us %Us %Us %Us	800000 yes 230 55 80 110 20
Safety related data EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage	of 50/60Hz coil powered at 50Hz drop-out of 60Hz coil powered at 60Hz pick-up drop-out	min max min max in-rush	v %Us %Us %Us %Us %Us	800000 yes 230 55 80 110 20 55
Safety related data EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage AC average coil consu	of 50/60Hz coil powered at 50Hz drop-out of 60Hz coil powered at 60Hz pick-up drop-out umption at 20°C of 60Hz coil powered at 60Hz	min max min max	v %Us %Us %Us %Us %Us VA VA	800000 yes 230 55 80 110 20 55 300 20
Safety related data EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage AC average coil consu	of 50/60Hz coil powered at 50Hz drop-out of 60Hz coil powered at 60Hz pick-up drop-out umption at 20°C of 60Hz coil powered at 60Hz	min max min max in-rush	v %Us %Us %Us %Us %Us	800000 yes 230 55 80 110 20 55
Safety related data EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage AC average coil consultations Dissipation at holding Max cycles frequency	of 50/60Hz coil powered at 50Hz drop-out of 60Hz coil powered at 60Hz pick-up drop-out umption at 20°C of 60Hz coil powered at 60Hz	min max min max in-rush	v %Us %Us %Us %Us %Us W	800000 yes 230 55 80 110 20 55 300 20 6.5
Eafety related data EMC compatibility AC coil operating Rated AC voltage at 6 AC operating voltage AC average coil consults Dissipation at holding Max cycles frequency Mechanical operation	of 50/60Hz coil powered at 50Hz drop-out of 60Hz coil powered at 60Hz pick-up drop-out umption at 20°C of 60Hz coil powered at 60Hz	min max min max in-rush	v %Us %Us %Us %Us %Us VA VA	800000 yes 230 55 80 110 20 55 300 20
Safety related data EMC compatibility C coil operating Rated AC voltage at 6 AC operating voltage AC average coil consultations Dissipation at holding Max cycles frequency	of 50/60Hz coil powered at 50Hz drop-out of 60Hz coil powered at 60Hz pick-up drop-out umption at 20°C of 60Hz coil powered at 60Hz ≤20°C 50Hz	min max min max in-rush	v %Us %Us %Us %Us %Us W	800000 yes 230 55 80 110 20 55 300 20 6.5

in AC



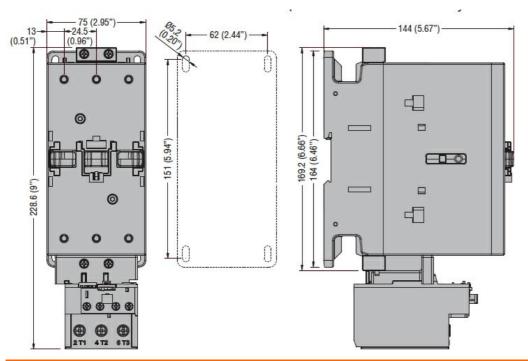


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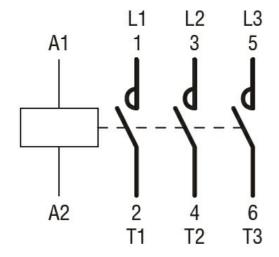
	Closing NO			
		min	ms	45
		max	ms	32
	Opening NO			
		min	ms	9
		max	ms	24
UL technical data				
Yielded mechanical performance				
for three-phase AC m	otor			
		200/208V	HP	50
		220/230V	HP	50
		460/480V	HP	100
		575/600V	HP	125
General USE				
Contactor				
		AC current	Α	165
Short-circuit protection fuse, 600V				
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	е			
		min	°C	-50
		max	°C	70
Storage temperature				
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Dimensions				

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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