

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



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
Data dan anational arrows the AO 2 /T<55°O\	1000V	kW	55
Rated operational current AC-3 (T≤55°C)	0001/		450
	230V	A	150
	400V	A	150
	415V 440V	A	150 150
	500V	A A	128
	690V	A	113
	1000V	A	51
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	1000 V		31
120 max current le in 201 with 2/1 2 mis with 1 poles in series	≤24V	Α	165
	48V	A	165
	75V	A	150
	110V	A	10
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	220 V	- ' '	
	≤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	-		

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	A	44
	110V	A	6
150	220V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	-04) /	Δ.	405
	≤24V	A	165
	48V	A	82
	75V	A	70
	110V	A A	80 7
IFC may ourrent to in DC2 DC5 with L/D < 15mg with 2 notes in series	220V	A	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	≤24V	۸	165
	≥24V 48V	A A	165 195
	75V		110
	110V	A 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 200-2003 with 2/10 2 10 ms with 4 poles in series	≤24V	Α	165
	48V	A	130
	75V	A	130
	110V	Α	150
	220V	A	150
Short-time allowable current for 10s (IEC/EN60947-1)	220 1	A	1200
Protection fuse		- / (1200
	gG (IEC)	Α	250
	aM (IEC)	Α	160
Making capacity (RMS value)	S (:=0)	A	1500
Breaking capacity at voltage			
01 V0x	440V	Α	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
Tightening torque for terminals			
	min	Nm	6
	max	Nm	7
	min	Ibin	4.4
	max	Ibin	5.2



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Fightening torque for	coil terminal			
		min	Nm	8.0
		max	Nm	1
		min	lbin	0.59
		max	lbin	0.74
Conductor section				
	AWG/Kcmil			
		max		2/0
	Flexible w/o lug conductor section			
	•	min	mm²	1.5
		max	mm²	70
	Flexible c/w lug conductor section			
	3	min	mm²	1.5
		max	mm²	70
ower terminal protect	ction according to IEC/EN 60529			IP20 front
lechanical features				
perating position				
, p		normal		Vertical plan
		allowable		±30°
		anowable		Screw / DIN rai
ixing				35mm
Veight			g	2020
Conductor section			9	
oriductor section	AWG/kcmil conductor section			
	AVVG/KCITIII COTIQUCTOT Section	may		2/0
Operations		max		2/0
Mechanical life			cycles	15000000
Electrical life				800000
Safety related data			cycles	800000
EMC compatibility				1/00
AC coil operating				yes
	50/60LI=		V	40
Rated AC voltage at			V	48
C operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up		0/11	0.0
		min	%Us	80
		max	%Us	110
	drop-out			
	drop-out	min	%Us	20
			%Us %Us	20 55
	of 50/60Hz coil powered at 60Hz	min		
		min max	%Us	55
	of 50/60Hz coil powered at 60Hz	min	%Us	55 85
	of 50/60Hz coil powered at 60Hz pick-up	min max	%Us	55
	of 50/60Hz coil powered at 60Hz	min max min	%Us %Us %Us	85 110
	of 50/60Hz coil powered at 60Hz pick-up	min max min	%Us	55 85
	of 50/60Hz coil powered at 60Hz pick-up drop-out	min max min max	%Us %Us %Us	85 110
AC average coil cons	of 50/60Hz coil powered at 60Hz pick-up drop-out	min max min max min	%Us %Us %Us %Us	85 110 40
AC average coil cons	of 50/60Hz coil powered at 60Hz pick-up drop-out	min max min max min	%Us %Us %Us %Us	85 110 40
C average coil cons	of 50/60Hz coil powered at 60Hz pick-up drop-out	min max min max min	%Us %Us %Us %Us	85 110 40
C average coil cons	of 50/60Hz coil powered at 60Hz pick-up drop-out	min max min max min max	%Us %Us %Us %Us %Us	55 85 110 40 55
∖C average coil cons	of 50/60Hz coil powered at 60Hz pick-up drop-out sumption at 20°C of 50/60Hz coil powered at 50Hz	min max min max min max in-rush	%Us %Us %Us %Us %Us	55 85 110 40 55
AC average coil cons	of 50/60Hz coil powered at 60Hz pick-up drop-out	min max min max min max in-rush	%Us %Us %Us %Us %Us	55 85 110 40 55



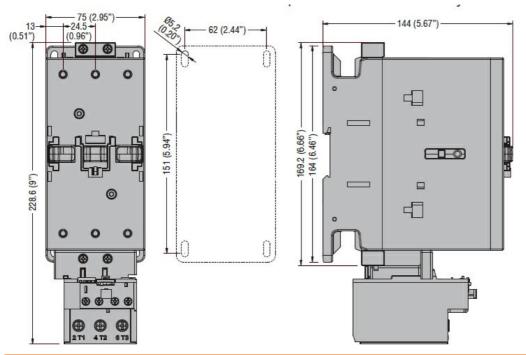


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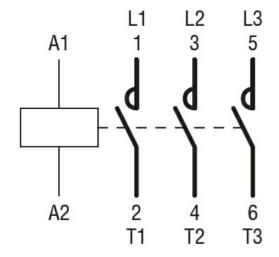
	of 60Hz coil powered at 60Hz			
		in-rush	VA	300
		holding	VA	20
Dissipation at holding ≤	20°C 50Hz		W	6.5
Max cycles frequency				
Mechanical operation			cycles/h	1500
Operating times				
Average time for Us con				
	in AC			
	Closing NO			
		min	ms	45
		max	ms	32
	Opening NO			
		min	ms	9
		max	ms	24
UL technical data				
Yielded mechanical per	formance			
	for three-phase AC motor			
		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			
		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