

# THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 150A, AC COIL 60HZ, 460VAC



Product designation Power contactor Product type designation BF150

Product type designation			DF 130
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	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
IFC many assument to in DC4 with 1/D < 4 may with 2 males 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	Α	44
	110V	A	6
	220V	A	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	220 V		
TEC max current le in DC3-DC3 with L/K = 13ms with 2 poles in series	≤24V	Α	165
	≥24V 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		_	
	≤24V	Α	165
	48V	Α	195
	75V	Α	110
	110V	Α	120
	220V	Α	120
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	165
	48V	Α	130
	75V	Α	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			
3	440V	Α	1200
	500V	A	1025
	690V	A	905
Resistance per pole (average value)	030 v	mΩ	0.45
		11122	0.43
Power dissipation per pole (average value)	lah	۱۸/	12
	Ith	W	
Tightoning torque for torminals	AC-3	W	10.1
Tightening torque for terminals	·		•
	min	Nm	6
	max ·	Nm	7
	min	Ibin	4.4
	max	Ibin	5.2



## THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 150A, AC COIL 60HZ, 460VAC

Tightening torque for	coil terminal			0.0
		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			
		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	i i			
Operating position				
19		normal		Vertical plan
		allowable		±30°
		anowasio		Screw / DIN rail
Fixing				35mm
Weight			g	2020
Conductor section			9	
Conductor Section	AWG/kcmil conductor section			
	AVVG/KCMIII CONDUCTOR Section			0/0
Operations		max		2/0
Operations				45000000
Mechanical life			cycles	15000000
Electrical life			cycles	800000
Safety related data				
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 6	iOHz		V	460
AC operating voltage				
	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	dran aut			
	drop-out			
	arop-out	min	%Us	20
		min max	%Us %Us	20 55
AC average coil cons				
AC average coil cons				
AC average coil cons	umption at 20°C			
AC average coil cons	umption at 20°C	max	%Us	55
	umption at 20°C of 60Hz coil powered at 60Hz	max in-rush	%Us VA	300
Dissipation at holding	umption at 20°C of 60Hz coil powered at 60Hz ≤20°C 50Hz	max in-rush	%Us VA VA	300 20
Dissipation at holding Max cycles frequency	umption at 20°C of 60Hz coil powered at 60Hz ≤20°C 50Hz	max in-rush	%Us VA VA W	300 20 6.5
Dissipation at holding Max cycles frequency Mechanical operation	umption at 20°C of 60Hz coil powered at 60Hz ≤20°C 50Hz	max in-rush	%Us VA VA W	300 20
Dissipation at holding Max cycles frequency Mechanical operation Operating times	umption at 20°C of 60Hz coil powered at 60Hz ≤20°C 50Hz	max in-rush	%Us VA VA W	300 20 6.5
Dissipation at holding Max cycles frequency Mechanical operation Operating times	umption at 20°C of 60Hz coil powered at 60Hz ≤20°C 50Hz	max in-rush	%Us VA VA W	300 20 6.5
Dissipation at holding Max cycles frequency Mechanical operation Operating times	umption at 20°C of 60Hz coil powered at 60Hz ≤20°C 50Hz control in AC	max in-rush	%Us VA VA W	300 20 6.5
AC average coil consideration at holding Max cycles frequency Mechanical operation Operating times Average time for Us of	umption at 20°C of 60Hz coil powered at 60Hz ≤20°C 50Hz	in-rush holding	%Us  VA  VA  W  cycles/h	300 20 6.5 1500
Max cycles frequency Mechanical operation Operating times	umption at 20°C of 60Hz coil powered at 60Hz ≤20°C 50Hz control in AC	max in-rush	%Us VA VA W	300 20 6.5

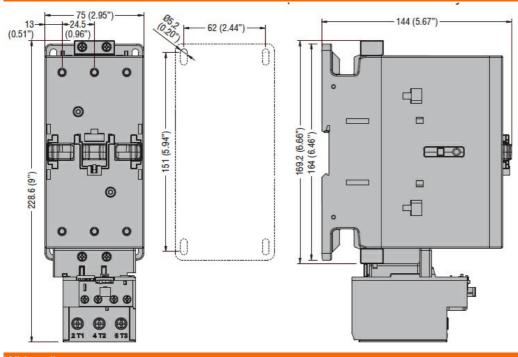


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#### Opening NO

	Opening 110			
		min	ms	9
		max	ms	24
UL technical data				
Yielded mechanical p	performance			
·	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	on fuse, 600V			
'	High fault			
	<b>G</b>	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

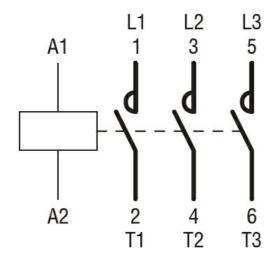
#### **Dimensions**



#### 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

#### ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching