



Product designation			Power contactor
Product type designation Contact characteristics			BF150
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency		κv	0
Operational frequency	min	Hz	25
	min	Hz	400
IEC Conventional free air thermal current Ith	max	<u>п</u> 2 А	165
Operational current le		A	105
Operational current le	$A \subset 1 (< 10^{\circ} C)$	٨	165
	AC-1 (≤40°C)	A	165
	AC-1 (≤55°C)	A	135
	AC-1 (≤70°C)	A	118
	AC-3 (≤440V ≤55°C)	A	150 70
Deted energtional newsr AC 2 (T <ee°c)< td=""><td>AC-4 (400V)</td><td>A</td><td>70</td></ee°c)<>	AC-4 (400V)	A	70
Rated operational power AC-3 (T≤55°C)	2201/	L\\\/	45
	230V	kW	45
	400V	kW	75
	415V	kW	75
	440V	kW	75
	500V	kW	90
	690V	kW	110
Deted energianal surrant AC 2 (TZEE°C)	1000V	kW	55
Rated operational current AC-3 (T≤55°C)	000)/	٨	450
	230V	A	150
	400V	A	150
	415V	A	150
	440V	A	150
	500V	A	128
	690V	A	113
IFO many summer to in DO4 with 1/D < 4max with 4 males in a single	1000V	A	51
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series	-0.0.1	۸	405
	≤24V	A	165
	48V	A	165
	75V	A	150
	110V	A	10
	220V	A	-
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			105
	≤24V	A	165
	48V	A	165
	75V	A	165
	110V	A	150
	220V	A	14

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



BF15000A12060 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 150A, AC COIL 60HZ, 120VAC

$ \begin{aligned} \leq 24 \vee & A & 165 \\ 48 \vee & A & 165 \\ 110 \vee & A & 165 \\ 220 \vee & A & 165 \\ 220 \vee & A & 165 \\ 220 \vee & A & 165 \\ 48 \vee & A & 60 \\ 75 \vee & A & 44 \\ 110 \vee & A & 6 \\ 220 \vee & A & - \\ \end{aligned}$				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		≤24V	А	165
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		48V	А	165
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		75V	А	165
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series		110V	А	160
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		220V	А	150
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		≤24V	А	165
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		48V	А	165
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		75V	А	165
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series		110V	А	165
$ \begin{aligned} & \leq 24 \lor & A & = 165 \\ & 48 \lor & A & = 60 \\ & 75 \lor & A & 44 \\ & 110 \lor & A & = 6 \\ & 220 \lor & A & = - \end{aligned} \\ \hline & & = 220 \lor & A & = - \end{aligned} \\ \hline & & = 220 \lor & A & = - \end{aligned} \\ \hline & & = 220 \lor & A & = - \end{aligned} \\ \hline & & = 220 \lor & A & = - \end{aligned} \\ \hline & & = 220 \lor & A & = - \end{aligned} \\ \hline & & = 220 \lor & A & = - \end{aligned} \\ \hline & & = 220 \lor & A & = - \end{aligned} \\ \hline & & = 220 \lor & A & = - \end{aligned} \\ \hline & & = 220 \lor & A & = - \end{aligned} \\ \hline & & = 220 \lor & A & = - \end{aligned} \\ \hline & & = 220 \lor & A & = - \end{aligned} \\ \hline & & = 220 \lor & A & = - 1 \end{aligned} \\ \hline & & = 220 \lor & A & = - 1 \end{aligned} \\ \hline & & = 220 \lor & A & = - 1 \end{aligned} \\ \hline & & = 220 \lor & A & = - 1 \end{aligned} \\ \hline & & = 220 \lor & A & = - 1 \end{aligned} \\ \hline & & = 220 \lor & A & = - 1 \end{aligned} \\ \hline & & = 220 \lor & A & = - 1 \end{aligned} \\ \hline & & = 220 \lor & A & = - 1 \end{aligned} \\ \hline & & = 220 \lor & A & = - 1 \end{aligned} \\ \hline & & = 220 \lor & A & = - 1 \end{aligned} \\ \hline & & = 220 \lor & A & = - 1 \end{aligned} \\ \hline & & = 220 \lor & A & = - 1 \end{aligned} \\ \hline & & = 220 \lor & A & = - 1 \end{aligned} \\ \hline & & = 220 \lor & A & = - 1 \end{aligned} \\ \hline & & = 220 \lor & A & = - 1 \end{aligned} \\ \hline & & = 220 \lor & A & = - 1 \end{aligned} \\ \hline & & = 220 \lor & A & = - 1 $ $ \end{split} \\ \hline & & = 220 \lor & A & = - 1 \end{aligned} \\ \hline & & = 220 \lor & A & = - 1 \end{aligned} \\ \hline & & = 220 \lor & A & = - 1 \end{aligned} \\ \hline & & = 220 \lor & A & = - 1 \end{aligned} \\ \hline & & = 220 \lor & A & = - 1 \end{aligned} \\ \hline & & = 220 \lor & A & = - 1 \end{aligned} \\ \hline & & = 220 \lor & A & = - 1 \end{aligned} \\ \hline & & = 220 \lor & A & = - 1 \end{split} \\ \hline & & = 220 \lor & A & = - 1 \end{split} \\ \hline & & = 220 \lor & A & = - 1 \end{split} \\ \hline & & = 220 \lor & A & = - 1 \end{split} \\ \hline & & = 220 \lor & A & = - 1 \end{split} \\ \hline & & = 220 \lor & A & = - 1 \end{split} \\ \hline & & = 220 \lor & A & = - 1 \end{split} \\ \hline & & = 220 \lor & A & = - 1 \end{split} \\ \hline & & = 220 \lor & A & = - 1 \end{split} \\ \hline & & = 220 \lor & A & = - 1 \end{split} \\ \hline & & = 220 \lor & A & = - 1 \end{split} \\ \hline & & = 220 \lor & A & = - 1 \end{split} \\ \hline & & = 220 \lor & A & = - 1 \end{split} \\ \hline & & = 220 \lor & A & = - 1 \end{split} \\ \hline & & = 220 \lor & A & = - 1 \end{split} \\ \hline & & = 220 \lor & A & = - 2 \end{split} \\ \hline & & = 220 \lor & A & = - 2 \end{split} \\ \hline & & = 220 \lor & A & = - 2 \end{split} \\ \end{aligned} \\ \hline & & = 220 \lor & A & = 220 \lor \\ \hline & & = 220 \lor & A & = 220 \lor \\ \hline & & = 220 \lor & A & = 220 \lor \\ \hline & & = 220 \lor & A & = 220 \lor \\ \end{aligned} \\ \end{aligned} \\ \end{aligned} \\ \end{aligned} \\ \end{aligned} \end{aligned} \\ \end{aligned} \end{aligned} \\ \end{aligned} \end{aligned} \end{aligned} \end{aligned}$		220V	А	165
$ \begin{array}{cccc} 48 \lor & A & 60 \\ 75 \lor & A & 44 \\ 110 \lor & A & 6 \\ 220 \lor & A & - \end{array} \\ \hline \begin{tabular}{lllllllllllllllllllllllllllllllllll$	IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		≤24V	А	165
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		48V	А	60
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		75V	А	44
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series		110V	А	6
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series				
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series			
$ \begin{array}{cccc} 48V & A & 82 \\ 75V & A & 70 \\ 110V & A & 80 \\ 220V & A & 7 \end{array} \\ \hline \begin{tabular}{lllllllllllllllllllllllllllllllllll$		≤24V	А	165
$ \begin{array}{ccccc} 75 & A & 70 \\ 110 & A & 80 \\ 220 & A & 7 \end{array} \\ \hline \\ \mbox{IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series} \\ \hline \\ \mbox{Sector 10} & Sector 10 \\ \mbox{Sector 10} & A & 165 \\ \mbox{Sector 10} & A & 120 \\ 220 & A & 130 \\ 75 & A & 130 \\ 110 & A & 150 \\ 220 & A & 150 \\ \hline \\ \mbox{Freaking capacity (RMS value)} & A & 1200 \\ \hline \\ \mbox{Freaking capacity at voltage} & & & \\ \hline \\ \mbox{Resistance per pole (average value)} & & \\ \hline \\ \mbox{Resistance per pole (average value)} & & \\ \hline \\ Resistance per pole (average valu$				
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series≤24VA16548VA19575VA110110VA120220VA120IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series≤24VA16548VA13075VA13075VA130110VA150Short-time allowable current for 10s (IEC/EN60947-1)A1200Protection fusegG (IEC)A250aM (IEC)A1500Breaking capacity (RMS value)A1200Breaking capacity at voltage440VA1200Power dissipation per pole (average value)mΩ0.45Power dissipation per pole (average value)minNm6Tightening torque for terminalsminNm6minIbin4.4M4				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	IEC may current le in DC3-DC5 with $1/R \le 15$ ms with 3 poles in series	2201		,
$ \begin{array}{cccccc} 48V & A & 195 \\ 75V & A & 110 \\ 110V & A & 120 \\ 220V & A & 120 \\ 220V & A & 120 \\ \end{array} \\ \hline \\ IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series \\ \hline \\ 48V & A & 165 \\ 48V & A & 130 \\ 75V & A & 130 \\ 110V & A & 150 \\ 220V & A & 150 \\ \end{array} \\ \hline \\ Short-time allowable current for 10s (IEC/EN60947-1) & A & 1200 \\ \hline \\ Protection fuse \\ \hline \\ Protection fuse \\ \hline \\ gG (IEC) & A & 250 \\ aM (IEC) & A & 160 \\ \hline \\ Making capacity (RMS value) & A & 1500 \\ \hline \\ Breaking capacity at voltage \\ \hline \\ \\ Feasing capacity at voltage \\ \hline \\ Resistance per pole (average value) & m\Omega & 0.45 \\ \hline \\ Power dissipation per pole (average value) & m\Omega & 0.45 \\ \hline \\ Power dissipation per pole (average value) & m\Omega & 0.45 \\ \hline \\ Power dissipation per pole (average value) & m\Omega & 0.45 \\ \hline \\ Power dissipation per pole (average value) & m\Omega & 0.45 \\ \hline \\ \hline \\ Tightening torque for terminals & min & Nm & 6 \\ max & Nm & 7 \\ min & Ibin & 4.4 \\ \hline \end{array}$		<24\/	Δ	165
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series≤24VA16548VA13075VA13075VA130110VA150220VA150220VA1200Protection fusegG (IEC)A250adking capacity (RMS value)A1500Breaking capacity at voltage440VA1200Short-time dissipation per pole (average value)mΩ0.45Power dissipation per pole (average value)IthW12AC-3W10.110.1Tightening torque for terminalsminNm6minIbin4.4Min4.4				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	IFC may summant to in DC2 DC5 with 1/D < 15 may with 1 males in series	2200	A	120
$\begin{array}{cccccccc} 48V & A & 130 \\ 75V & A & 130 \\ 110V & A & 150 \\ 220V & A & 150 \\ 220V & A & 150 \\ \end{array}$ Short-time allowable current for 10s (IEC/EN60947-1) & A & 1200 \\ \hline Protection fuse & & & & & & & & & \\ gG (IEC) & A & 250 \\ aM (IEC) & A & 160 \\ \hline Making capacity (RMS value) & A & 1500 \\ \hline Breaking capacity at voltage & & & & & & & & & \\ & 440V & A & 1200 \\ 500V & A & 1025 \\ 690V & A & 905 \\ \hline Resistance per pole (average value) & & & & & & & & & & & \\ & & & & & & &	TEC max current le in DC3-DC5 with L/R S 15ms with 4 poles in series	<2417	۸	405
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				
220V A 150 Short-time allowable current for 10s (IEC/EN60947-1) A 1200 Protection fuse gG (IEC) A 250 aM (IEC) A 160 Making capacity (RMS value) A 1500 Breaking capacity at voltage 440V A 1200 Solv A 1200 500V A 1025 Breaking capacity at voltage 440V A 1200 500V A 1025 Breaking capacity at voltage Ith W 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				
Short-time allowable current for 10s (IEC/EN60947-1) A 1200 Protection fuse gG (IEC) A 250 aM (IEC) A 160 Making capacity (RMS value) A 1500 Breaking capacity at voltage 440V A 1200 Stort-time allowable current for 10s (IEC/EN60947-1) A 1500 Making capacity (RMS value) A 1500 Breaking capacity at voltage 440V A 1200 Stort-time allowable current for 10s (IEC/EN60947-1) A 1500 Breaking capacity (RMS value) A 1500 1500 Breaking capacity at voltage 440V A 1200 Stort A 905 690V A 905 Resistance per pole (average value) mΩ 0.45 0.45 Power dissipation per pole (average value) Ith W 12 AC-3 W 10.1 10.1 Tightening torque for terminals min Nm 6 max Nm 7 min lbin 4.4				
Protection fuse gG (IEC) A 250 aM (IEC) A 160 Making capacity (RMS value) A 1500 Breaking capacity at voltage 440V A 1200 S00V A 1025 690V A 905 Resistance per pole (average value) mΩ 0.45 0.45 Power dissipation per pole (average value) Ith W 12 AC-3 W 10.1 10.1 Tightening torque for terminals min Nm 6 max Nm 7 min Ibin 4.4		2200		
gG (IEC) aM (IEC) A 250 A Making capacity (RMS value) A 160 Breaking capacity at voltage 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 Tightening torque for terminals min Nm 6 max Nm 7 min			A	1200
aM (IEC) A 160 Making capacity (RMS value) A 1500 Breaking capacity at voltage 440V A 1200 500V A 1025 690V A 905 Resistance per pole (average value) mΩ 0.45 0.45 Power dissipation per pole (average value) Ith W 12 AC-3 W 10.1 10.1 Tightening torque for terminals min Nm 6 max Nm 7 min 1bin 4.4	Protection fuse			
Making capacity (RMS value) A 1500 Breaking capacity at voltage 440V A 1200 440V A 1025 690V A 905 Resistance per pole (average value) mΩ 0.45 0.45 Power dissipation per pole (average value) Ith W 12 AC-3 W 10.1 10.1 Tightening torque for terminals min Nm 6 max Nm 7 min Ibin 4.4				
Breaking capacity at voltage 440V A 1200 500V A 1025 690V A 905 Resistance per pole (average value) 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		aM (IEC)		
$\begin{array}{cccc} & 440 & A & 1200 \\ 500 & A & 1025 \\ \hline 690 & A & 905 \\ \hline \\ $			A	1500
500VA1025690VA905Resistance per pole (average value)mΩ0.45Power dissipation per pole (average value)IthW12AC-3W10.1Tightening torque for terminalsminNm6maxNm7minIbin4.4	Breaking capacity at voltage		_	
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				
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				
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		690V		
Ith W 12 AC-3 W 10.1 Tightening torque for terminals min Nm 6 max Nm 7 min Ibin 4.4			mΩ	0.45
AC-3 W 10.1 Tightening torque for terminals min Nm 6 max Nm 7 min Ibin 4.4	Power dissipation per pole (average value)			
Tightening torque for terminals min Nm 6 max Nm 7 min Ibin 4.4				
min Nm 6 max Nm 7 min Ibin 4.4		AC-3	W	10.1
max Nm 7 min Ibin 4.4	Tightening torque for terminals			
min Ibin 4.4		min	Nm	6
		max	Nm	7
max Ibin 5.2		min	lbin	4.4
		max	lbin	5.2



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

BF15000A12060 120VAC

Tightening torque for a	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			
	ő	min	mm²	1.5
		max	mm²	70
	Flexible c/w lug conductor section			
		min	mm²	1.5
		max	mm²	70
Power terminal protect	tion according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
				Screw / DIN rail
Fixing				35mm
Weight			g	2020
Conductor section			3	
	AWG/kcmil conductor section			
		max		2/0
Operations		Пах		2/0
Mechanical life			cycles	15000000
Electrical life			cycles	800000
Safety related data			Cycles	000000
EMC compatibility				yes
AC coil operating				yes
Rated AC voltage at 6	ίΩHz		V	120
AC operating voltage			v	120
	of 60Hz coil powered at 60Hz			
	-			
	pick-up	min	%Us	80
			%Us	110
	drop-out	max	/005	110
	alop-out	min	%Us	20
		max	%Us	55
AC average coil consi	umption at 20°C	IIIdX	/005	55
no average coll colls	of 60Hz coil powered at 60Hz			
	01001120011200110000000000000000000000			300
		in ruch	1//	
		in-rush	VA	
Dissinction of holding		in-rush holding	VA	20
	≤20°C 50Hz			
Max cycles frequency	≤20°C 50Hz		VA W	20 6.5
Max cycles frequency Mechanical operation	≤20°C 50Hz		VA	20 6.5
Max cycles frequency Mechanical operation Operating times	≤20°C 50Hz		VA W	20 6.5
Max cycles frequency Mechanical operation Operating times	≤20°C 50Hz control		VA W	20 6.5
Max cycles frequency Mechanical operation Operating times	≤20°C 50Hz ontrol in AC		VA W	20 6.5
Max cycles frequency Mechanical operation Operating times	≤20°C 50Hz control	holding	VA W cycles/h	20 6.5 1500
Dissipation at holding Max cycles frequency Mechanical operation Operating times Average time for Us c	≤20°C 50Hz ontrol in AC		VA W	20 6.5

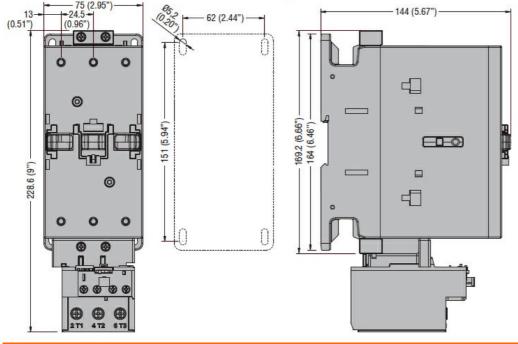
BF15000A12060 The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

BF15000A12060



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 150A, AC COIL 60HZ, 120VAC

	Opening NO			
		min	ms	9
		max	ms	24
JL technical data				
ielded mechanica	•			
	for three-phase AC motor			
		200/208V	HP	50
		220/230V	HP	50
		460/480V	HP	100
		575/600V	HP	125
General USE				
	Contactor			405
		AC current	А	165
Short-circuit protec				
	High fault			100
		Short circuit current	kA	100
		Fuse rating	А	200
		Fuse class		J
	Standard fault			
		Short circuit current	kA	10
		Fuse rating	А	250
		Fuse class		RK5
Ambient conditions	5			
emperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature		• •	00
		min	°C	-60
a 1// 1		max	°C	80
/lax altitude			m	3000
Dimensions				
13		144 (5.67")		

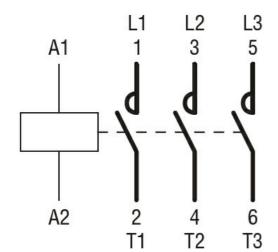


Wiring diagrams

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BF15000A12060 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 150A, AC COIL 60HZ, 120VAC



Certifications and compliance

o or ano and oo	
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