



Product type designation BF18 Contact characteristics Ntmber of poles Nt. 3 Rated insulation voltage Ui IEC/EN V 690 Rated insulation voltage Uimp kV 6 Operational frequency min Hz 400 IEC Conventional free air thermal current Ith A 32 Operational current le AC-1 (≤40°C) A 32 AC-3 (s55°C) A 26 AC-3 (s55°C) A 28 AC-3 (s440V s55°C) A 18 AC-4 (400V) A 5 Rated operational power AC-3 (T≤55°C) 230V kW 4 400V kW 9 440V kW 9 500V kW 10 10 Rated operational power AC-1 (T≤40°C) 230V kW 10 10 10 Rated operational power AC-1 (T≤40°C) 230V kW 12 400V 10 Rated operational power AC-1 (T≤40°C) 230V kW 10 11 EC max current le in DC1 with L/R ≤	Product designation			Power contactor
Number of poles Nr. 3 Rated insulation voltage Ui IEC/EN V 690 Operational frequency min Hz 25 Operational frequency max Hz 400 IEC Conventional free air thermal current lth A 32 Operational current le AC-1 (≤40°C) A 32 AC-1 (s55°C) A 26 AC-1 (s55°C) A 26 AC-3 (s440V vS5°C) A 18 AC-4 (400V) A 8.5 Rated operational power AC-3 (T≤55°C) 230V KW 4 400V kW 9 500V kW 9 500V kW 10 Rated operational power AC-1 (T≤40°C) 230V kW 12 400V kW 10 690V kW 12 400V kW 21 500V kW 12 400V kW 21 500V kW 12 400V kW 21 500V kW 21 </td <td>Product type designation</td> <td></td> <td></td> <td>BF18</td>	Product type designation			BF18
Rated insulation voltage Ui IEC/EN V 690 Rated impulse withstand voltage Uimp kV 6 Operational frequency min Hz 25 iEC conventional free air thermal current lth A 32 Operational current le AC-1 (≤40°C) A 32 Operational current le AC-1 (≤55°C) A 26 AC-1 (≤55°C) A 26 AC-1 (≤40°C) A 32 AC-3 (≤400∨ S55°C) A 26 AC-4 (400∨) A 8.5 Rated operational power AC-3 (T≤55°C) 230∨ kW 4 400∨ kW 9 440∨ kW 9 500∨ kW 10 Rated operational power AC-1 (T≤40°C) 230∨ kW 12 500∨ kW 10 6 220∨ kW 26 690∨ kW 12 5 60∨ kW 26 690∨ kW 12 5 75∨ A 15 IEC max current le in DC1	Contact characteristics			
Rated impulse withstand voltage Uimp kV 6 Operational frequency min Hz 25 max Hz 400 IEC Conventional free air thermal current lth A 32 Operational current le AC-1 (s40°C) A 32 AC-3 (s40V) A 32 AC-1 (s45°C) A 32 AC-3 (s440V s55°C) A 18 AC-3 (s440V s55°C) A 18 AC-4 (400V) A 8.5 Rated operational power AC-3 (Ts55°C) 230V kW 4 400V kW 9 600V kW 10 690V kW 10 690V kW 10 Rated operational power AC-1 (Ts40°C) 230V kW 12 400V kW 21 500V kW 21 500V kW 21 50V kW 21 50V kW 21 50V kW 22 40V kW 22 40V kW 22 40V kW 22 5 <t< td=""><td>Number of poles</td><td></td><td>Nr.</td><td>3</td></t<>	Number of poles		Nr.	3
Operational frequency min Hz 25 max Hz 400 IEC Conventional free air thermal current lth A 32 Operational current le AC-1 (540°C) A 32 AC-1 (555°C) A 26 AC-1 (555°C) A 28 AC-3 (st440) 555°C) A 18 AC-4 (400V) A 8.5 Rated operational power AC-3 (T≤55°C) 230V kW 4 400V kW 9 500V kW 9 500V kW 9 500V kW 10 Rated operational power AC-1 (T≤40°C) 230V kW 12 400V kW 12 400V kW 10 699V kW 12 400V kW 26 699V kW 12 400V kW 26 699V kW 36 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series \$24V A 15 10V A 6 20V </td <td>Rated insulation voltage Ui IEC/EN</td> <td></td> <td>V</td> <td>690</td>	Rated insulation voltage Ui IEC/EN		V	690
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Rated impulse withstand voltage Uimp		kV	6
max Hz 400 IEC Conventional free air thermal current lth A 32 Operational current le AC-1 (≤40°C) A 32 AC-1 (≤57°C) A 26 AC-1 (≤57°C) A 23 AC-3 (≤57°C) A 18 AC-3 (400∨ 55°C) A 18 AC-4 (400V) A 8.5 AC-3 (400∨ 55°C) A 18 Rated operational power AC-3 (T≤55°C) 230V kW 4 400∨ kW 9 500V kW 9 500∨ kW 9 500∨ kW 10 Rated operational power AC-1 (T≤40°C) 230V kW 12 400∨ kW 12 400∨ kW 12 690∨ kW 12 690∨ kW 12 400∨ kW 12 400∨ kW 26 690∨ kW 36 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24∨ A 15 75∨ A <td>Operational frequency</td> <td></td> <td></td> <td></td>	Operational frequency			
IEC Conventional free air thermal current lthA32Operational current leAC-1 (≤40°C)A32AC-1 (≤55°C)A26AC-1 (≤55°C)A23AC-3 (≤440V ≤55°C)A18AC-4 (400V)A8.5Rated operational power AC-3 (T≤55°C)230VkW4400VkW9400VkW9440VkW9500VkW10Rated operational power AC-1 (T≤40°C)230VkW1012400VkW21So0VkW10690VkW26690VkW26IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series≤24VA1748VA15IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series≤24VA1748VA20IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series≤24VA2075VA20IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series≤24VA12200VA1IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series≤24VA2020VA1IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series≤24VA2222VA1IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series≤24VA2222VA1IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series≤24VA22248VA2248V		min		
Operational current le AC-1 (≤40°C) A 32 AC-1 (≤55°C) A 26 AC-1 (≤70°C) A 23 AC-3 (≤440V <55°C)		max	Hz	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			Α	32
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Operational current le			
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$				
AC-3 (s440V ≤55°C) A 18 AC-4 (400V) A 8.5 Rated operational power AC-3 (T≤55°C) 230V kW 4 400V kW 9 415V kW 9 440V kW 9 500V kW 10 Rated operational power AC-1 (T≤40°C) 230V kW 12 400V kW 21 500V kW 12 400V kW 21 500V kW 26 690V kW 21 500V kW 26 690V kW 21 500V kW 26 690V kW 36 22 48V A 15 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V A 20 48V A 20 110V A 13 20V A 1 20V A 1 IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 20 110V A 13 200 110V A <td></td> <td>. , , , , , , , , , , , , , , , , , , ,</td> <td></td> <td></td>		. , , , , , , , , , , , , , , , , , , ,		
AC-4 (400V) A 8.5 Rated operational power AC-3 (T≤55°C) 230V kW 4 400V kW 7.5 415V kW 9 440V kW 9 440V kW 9 500V kW 10 Rated operational power AC-1 (T≤40°C) 230V kW 12 400V kW 21 500V kW 22 400V kW 21 500V kW 26 690V kW 26 690V 690V kW 36 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V A 17 48V A 15 110V A 6 220V A - 1 1 IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 20 75V A 20 75V A 20 110V A 13 220V A 1 IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V		. , , , , , , , , , , , , , , , , , , ,		
Rated operational power AC-3 (T≤55°C)230VkW4400VkW7.5415VkW9440VkW9500VkW10690VkW10Rated operational power AC-1 (T≤40°C)230VkW12400VkW21500VkW26690VkW36IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series≤24VA1748VA1575VA15110VA6220VA-IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series≤24VA2075VA20110VA13220VA1111IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series≤24VA2248VA2275VA20		. , ,		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		AC-4 (400V)	A	8.5
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Rated operational power AC-3 (T≤55°C)			
$\begin{array}{c} 415 \vee & kW & 9 \\ 440 \vee & kW & 9 \\ 500 \vee & kW & 10 \\ 690 \vee & kW & 10 \\ \hline \end{array}$ Rated operational power AC-1 (T<40°C) $\begin{array}{c} 230 \vee & kW & 12 \\ 400 \vee & kW & 21 \\ 500 \vee & kW & 26 \\ 690 \vee & kW & 36 \\ \hline \end{array}$ IEC max current le in DC1 with L/R < 1ms with 1 poles in series $\begin{array}{c} 224 \vee & A & 17 \\ 48 \vee & A & 15 \\ 75 \vee & A & 15 \\ 110 \vee & A & 6 \\ 220 \vee & A & - \\ \hline \end{array}$ IEC max current le in DC1 with L/R < 1ms with 2 poles in series $\begin{array}{c} 224 \vee & A & 17 \\ 48 \vee & A & 15 \\ 75 \vee & A & 15 \\ 110 \vee & A & 6 \\ 220 \vee & A & - \\ \hline \end{array}$ IEC max current le in DC1 with L/R < 1ms with 2 poles in series $\begin{array}{c} 224 \vee & A & 20 \\ 48 \vee & A & 20 \\ 75 \vee & A & 20 \\ 110 \vee & A & 13 \\ 220 \vee & A & 1 \\ \hline \end{array}$ IEC max current le in DC1 with L/R < 1ms with 3 poles in series $\begin{array}{c} 224 \vee & A & 20 \\ 48 \vee & A & 20 \\ 75 \vee & A & 20 \\ 110 \vee & A & 13 \\ 220 \vee & A & 1 \\ \hline \end{array}$				
$ \begin{array}{c} 440 \vee & kW & 9 \\ 500 \vee & kW & 10 \\ \hline 690 \vee & kW & 10 \\ \hline Rated operational power AC-1 (T \leq 40 ^{\circ}C) \\ & & & & & & & & & & & & & & & & & & $				
$ \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 $				
Rated operational power AC-1 (T≤40°C) $230V$ kW12 $400V$ kW21 $500V$ kW26 $690V$ kW36IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series $\leq 24V$ A17 $48V$ A1575VA15 $110V$ A6220VA-IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series $\leq 24V$ A20 $48V$ A2075VA13 $220V$ A1220VA1IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series $\leq 24V$ A20 $110V$ A13220VA1IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series $\leq 24V$ A22 $48V$ A2248VA22 $75V$ A202020				
$\begin{array}{c} 230 \lor k \Downarrow 12 \\ 400 \lor k \Downarrow 21 \\ 500 \lor k \Downarrow 26 \\ 690 \lor k \Downarrow 36 \end{array}$ $\begin{array}{c} \text{IEC max current le in DC1 with L/R \leq 1ms with 1 poles in series} \end{array}$ $\begin{array}{c} \leq 24 \lor A & 17 \\ 48 \lor A & 15 \\ 75 \lor A & 15 \\ 110 \lor A & 6 \\ 220 \lor A & - \end{array}$ $\begin{array}{c} \text{IEC max current le in DC1 with L/R \leq 1ms with 2 poles in series} \end{array}$ $\begin{array}{c} \leq 24 \lor A & 20 \\ 48 \lor A & 20 \\ 75 \lor A & 20 \\ 110 \lor A & 13 \\ 220 \lor A & 1 \end{array}$ $\begin{array}{c} \text{IEC max current le in DC1 with L/R \leq 1ms with 2 poles in series} \end{array}$ $\begin{array}{c} \leq 24 \lor A & 20 \\ 75 \lor A & 20 \\ 110 \lor A & 13 \\ 220 \lor A & 1 \end{array}$ $\begin{array}{c} \text{IEC max current le in DC1 with L/R \leq 1ms with 3 poles in series} \end{array}$		690V	KVV	10
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Rated operational power AC-1 (I ≤ 40°C)	000)/	1.3.47	40
$\begin{tabular}{ c c c c c } \hline $500V & kW & 26 \\ \hline $690V & kW & 36 \end{tabular} \\ \hline EC max current le in DC1 with L/R $lms with 1 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 DC1 with L/R < 1ms with 1 poles in series				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	IFC may aurrent to in DC1 with L/R < 1ma with 1 nation in parion	090 v	KVV	30
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	The current is in DCT with $L/R \leq 100$ with 1 poles in series	<24V	٨	17
$\begin{array}{c cccc} 75 & A & 15 \\ 110 & A & 6 \\ 220 & A & - \end{array} \\ \hline \mbox{IEC max current le in DC1 with L/R \le 1ms with 2 poles in series} \\ \hline \mbox{IEC max current le in DC1 with L/R \le 1ms with 2 poles in series} \\ \hline \mbox{Second} & A & 20 \\ 48 & A & 20 \\ 75 & A & 20 \\ 110 & A & 13 \\ 220 & A & 1 \\ \hline \mbox{IEC max current le in DC1 with L/R \le 1ms with 3 poles in series} \\ \hline \mbox{IEC max current le in DC1 with L/R \le 1ms with 3 poles in series} \\ \hline \mbox{Second} & A & 22 \\ 48 & A & 22 \\ 48 & A & 22 \\ 75 & A & 20 \\ \hline \end{array} $				
$ \begin{array}{c cccc} 110 & A & 6 \\ 220 & A & - \end{array} \\ \hline \mbox{IEC max current le in DC1 with L/R \le 1ms with 2 poles in series} \\ \hline \mbox{\leq24V$ A $ 20$} \\ 48 & A $ 20$ \\ 48 & A $ 20$ \\ 75 & A $ 20$ \\ 110 & A $ 13$ \\ 220 & A $ 1$ \\ \hline \mbox{IEC max current le in DC1 with L/R \le 1ms with 3 poles in series} \\ \hline \mbox{IEC max current le in DC1 with L/R \le 1ms with 3 poles in series} \\ \hline \leq24V$ A $ 22$ \\ 48 & A $ 22$ \\ 75 & A $ 20$ \\ \hline \mbox{\leq24V$ A $ 20$ \\ \hline \mbox{\leq24V$ A $ 22$ \\ 75 & A $ 20$ \\ \hline \\mbox{\leq24V$ A $ 20$ \\ \hline \\mbox{\leq24V$ A $ 22$ \\ 75 & A $ 20$ \\ \hline \\mbox{\leq24V$ A $ 20$ \\ \hline \\\mbox{\leq24V$ A $ 20$ \\ \hline \\\mbox{\leq24V$ A $ 20$ \\ \hline \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\$				
$\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 DC1 with L/R \leq 1ms with 2 poles in series $\leq 24V$ A2048VA2075VA20110VA13220VA1IEC max current le in DC1 with L/R \leq 1ms with 3 poles in series $\leq 24V$ A2248VA2248VA2275VA20				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	IFC max current le in DC1 with L/R < 1ms with 2 poles in series	2201	~	
$ \begin{array}{cccc} 48 \mbox{V} & \mbox{A} & 20 \\ 75 \mbox{V} & \mbox{A} & 20 \\ 110 \mbox{V} & \mbox{A} & 13 \\ 220 \mbox{V} & \mbox{A} & 1 \end{array} \\ \hline \mbox{IEC max current le in DC1 with L/R \le 1ms with 3 poles in series} \\ \end{array} \\ \begin{array}{cccc} \leq 24 \mbox{V} & \mbox{A} & 22 \\ 48 \mbox{V} & \mbox{A} & 22 \\ 75 \mbox{V} & \mbox{A} & 20 \end{array} \\ \end{array} $		<24\/	Δ	20
$\begin{array}{ccccc} 75 \ensuremath{\mathbb{V}} & \ensuremath{\mathbb{A}} & 20 \\ 110 \ensuremath{\mathbb{V}} & \ensuremath{\mathbb{A}} & 13 \\ 220 \ensuremath{\mathbb{V}} & \ensuremath{\mathbb{A}} & 1 \end{array} \end{array}$ IEC max current le in DC1 with L/R < 1ms with 3 poles in series $\begin{array}{cccccccccccccccccccccccccccccccccccc$				
$\begin{tabular}{cccc} 110V & A & 13\\ 220V & A & 1 \end{tabular}$ IEC max current le in DC1 with L/R \leq 1ms with 3 poles in series $\begin{tabular}{cccc} \leq 24V & A & 22\\ 48V & A & 22\\ 75V & A & 20 \end{tabular}$				
220V A 1 IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 22 48V A 22 75V A 20				
IEC max current le in DC1 with L/R < 1ms with 3 poles in series $\leq 24V$ A2248VA2275VA20				
≤24V A 22 48V A 22 75V A 20	IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series		-	
48V A 22 75V A 20		≤24V	А	22
75V A 20				

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	220V	Α	11	
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series				
·	≤24V	А	22	
	48V	A	22	
	75V	A	20	
	110V	A	18	
	220V	A	13	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series				
	≤24V	А	12	
	48V	Α	11	
	75V	А	11	
	110V	А	2	
	220V	А	_	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series				
	≤24V	۸	15	
		A		
	48V	A	13	
	75V	A	13	
	110V	А	8	
	220V	А	2	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series				
•	≤24V	А	18	
	48V	А	18	
	75V	A	16	
	110V	A	12	
	220V	A	6	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series				
	≤24V	A	18	
	48V	Α	18	
	75V	А	16	
	110V	А	13	
	220V	А	8	
Short-time allowable current for 10s (IEC/EN60947-1)		А	200	
Protection fuse			200	
The client hase		۸	22	
	gG (IEC)	A	32	
	aM (IEC)	A	20	
Making capacity (RMS value)		Α	180	
Breaking capacity at voltage				
	440V	А	144	
	500V	А	120	
	690V	A	94	
Resistance per pole (average value)		mΩ	2.5	
			2.0	
		11132		
Power dissipation per pole (average value)			2.0	
	lth	W	2.6	
Power dissipation per pole (average value)	lth AC3		2.6 0.8	
		W W	0.8	
Power dissipation per pole (average value)		W		
Power dissipation per pole (average value)	AC3	W W	0.8	
Power dissipation per pole (average value)	AC3 min max	W W Nm Nm	0.8 1.5 1.8	
Power dissipation per pole (average value)	AC3 min max min	W W Nm Nm Ibin	0.8 1.5 1.8 1.1	
Power dissipation per pole (average value) Tightening torque for terminals	AC3 min max	W W Nm Nm	0.8 1.5 1.8	
Power dissipation per pole (average value)	AC3 min max min max	W W Nm Ibin Ibin	0.8 1.5 1.8 1.1 1.5	
Power dissipation per pole (average value) Tightening torque for terminals	AC3 min max min max min	W W Nm Ibin Ibin	0.8 1.5 1.8 1.1 1.5 0.8	
Power dissipation per pole (average value) Tightening torque for terminals	AC3 min max min max	W W Nm Ibin Ibin	0.8 1.5 1.8 1.1 1.5	

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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 18A, AC COIL 50/60HZ, 230VAC, 1NO AUXILIARY CONTACT

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Max number of wires	simultaneously connectable	max	Ibin Nr.	0.74
Conductor section	simultaneously connectable		INF.	2
Conductor section	AWG/Kcmil			
		max		10
	Flexible w/o lug conductor section	max		10
		min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section	max		0
		min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section	max		•
		min	mm²	1
		max	mm²	4
				IP20 when
Power terminal prote	ction according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
- •		normal		Vertical plan
		allowable		±30°
Fiving				Screw / DIN ra
Fixing				35mm
Weight			g	358
Conductor section				
	AWG/kcmil conductor section			
		max		10
Auxiliary contact char	acteristics			
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	•			A600 - P600
Operating current AC	15			
		230V	A	3
			Λ.	10
		400V	A	1.9
		400V 500V	A A	1.9 1.4
Operating current DC	12	500V	А	1.4
Operating current DC Operating current DC		500V 110V	A	1.4 5.7
		500V 110V 24V	A A A	1.4 5.7 5.7
		500V 110V 24V 48V	A A A A	1.4 5.7 5.7 2.9
		500V 110V 24V 48V 60V	A A A A A	1.4 5.7 5.7 2.9 2.3
		500V 110V 24V 48V 60V 110V	A A A A A A A	1.4 5.7 5.7 2.9 2.3 1.25
		500V 110V 24V 48V 60V 110V 125V	A A A A A A A A	1.4 5.7 5.7 2.9 2.3 1.25 1.1
		500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A	1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55
Operating current DC		500V 110V 24V 48V 60V 110V 125V	A A A A A A A A	1.4 5.7 5.7 2.9 2.3 1.25 1.1
Operating current DC		500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A	1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operating current DC Operations Mechanical life		500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A Cycles	1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000
Operating current DC Operations Mechanical life Electrical life		500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A	1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operating current DC Operations Mechanical life Electrical life Safety related data	213	500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A Cycles	1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000
Operating current DC Operations Mechanical life Electrical life Safety related data		500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A Cycles cycles	1.4 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 1600000
Operating current DC Operations Mechanical life Electrical life Safety related data	213 10d according to EN/ISO 13489-1	500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A Cycles cycles	1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 1600000
Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B	213 10d according to EN/ISO 13489-1 me	500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A Cycles cycles	1.4 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 1600000
Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B	213 10d according to EN/ISO 13489-1	500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A Cycles cycles	1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 1600000

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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

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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 18A, AC COIL 50/60HZ, 230VAC, 1NO AUXILIARY CONTACT

Rated AC voltage at 5	0/60Hz		V	230
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out		0/11-	20
		min	%Us %Us	20 55
	of 50/60Hz coil powered at 60Hz	max	/005	55
	pick-up			
	ρισκ-αρ	min	%Us	85
		max	%Us	110
	drop-out	····ax	/000	
		min	%Us	20
		max	%Us	55
AC average coil consi	umption at 20°C			
-	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
		holding	VA	9
Dissipation at holding	≤20°C 50Hz		W	2.5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Mechanical operation Operating times	ontrol		cycles/h	3600
Mechanical operation			cycles/h	3600
Mechanical operation Operating times	in AC	10	cycles/h	3600
Mechanical operation Operating times				
Mechanical operation Operating times	in AC	min	ms	8
Mechanical operation Operating times	in AC Closing N	min max		
Mechanical operation Operating times	in AC	min max NO	ms ms	8 24
Mechanical operation Operating times	in AC Closing N	min max	ms	8
Mechanical operation Operating times	in AC Closing N	min max NO min max	ms ms ms	8 24 10
Mechanical operation Operating times	in AC Closing N Opening	min max NO min max	ms ms ms	8 24 10
Mechanical operation Operating times	in AC Closing N Opening Closing N	min max NO min max NC min max	ms ms ms ms	8 24 10 20
Mechanical operation Operating times	in AC Closing N Opening	min max NO min max NC min max	ms ms ms ms ms	8 24 10 20 14 28
Mechanical operation Operating times	in AC Closing N Opening Closing N	min max NO min max NC min max	ms ms ms ms ms	8 24 10 20 14 28 7
Mechanical operation Operating times Average time for Us c	in AC Closing N Opening Closing N	min max NO min max NC NC	ms ms ms ms ms	8 24 10 20 14 28
Mechanical operation Operating times Average time for Us c	in AC Closing N Opening Closing N Opening	min max NO min max NC NC min max	ms ms ms ms ms ms	8 24 10 20 14 28 7
Mechanical operation Operating times Average time for Us c	in AC Closing N Opening Closing N	min max NO MC NC NC min max	ms ms ms ms ms ms ms	8 24 10 20 14 28 7 18
Mechanical operation Operating times Average time for Us c	in AC Closing N Opening Closing N Opening	min max NO MC NC MIN MA MC MIN MA MA MA MA MA MA MA MA MA MA MA MA MA	ms ms ms ms ms ms ms	8 24 10 20 14 28 7 18
Mechanical operation Operating times Average time for Us c UL technical data Full-load current (FLA	in AC Closing N Opening Closing N Opening	min max NO MC NC NC min max	ms ms ms ms ms ms ms	8 24 10 20 14 28 7 18
Mechanical operation Operating times Average time for Us c	in AC Closing N Opening Closing N Opening	min max NO MC NC MIN MA MC MIN MA MA MA MA MA MA MA MA MA MA MA MA MA	ms ms ms ms ms ms ms	8 24 10 20 14 28 7 18
Mechanical operation Operating times Average time for Us c UL technical data Full-load current (FLA	in AC Closing N Opening Closing N Opening	min max NO MC NC NC min max MC min max at 480V at 600V	ms ms ms ms ms ms ms as	8 24 10 20 14 28 7 18 14 17
Mechanical operation Operating times Average time for Us c UL technical data Full-load current (FLA	in AC Closing N Opening Closing N Opening	min max NO MO MC NC Min max MC min max at 480V at 600V 110/120V	ms ms ms ms ms ms ms hP	8 24 10 20 14 28 7 18 14 17 1
Mechanical operation Operating times Average time for Us c UL technical data Full-load current (FLA	in AC Closing N Opening Closing N Opening) for three-phase AC motor	min max NO MC NC NC min max MC min max at 480V at 600V	ms ms ms ms ms ms ms as	8 24 10 20 14 28 7 18 14 17
Mechanical operation Operating times Average time for Us c UL technical data Full-load current (FLA	in AC Closing N Opening Closing N Opening	min max NO MO MC NC Min max MC min max at 480V at 600V 110/120V	ms ms ms ms ms ms ms hP	8 24 10 20 14 28 7 18 14 17 1

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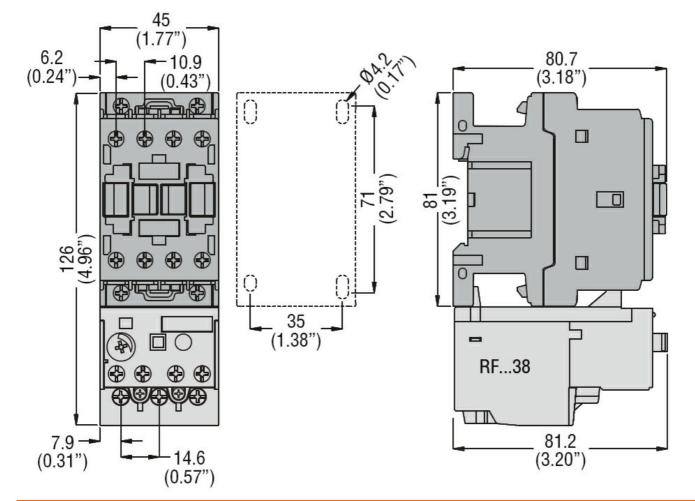
BF1810A230 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 18A, AC COIL 50/60HZ, 230VAC, 1NO AUXILIARY CONTACT

		220/230V	HP	5
		460/480V	HP	10
		575/600V	HP	15
General USE				
	Contactor			
		AC current	А	32
	Auxiliary contacts			
		AC voltage	V	600
		AC current	А	10
		DC voltage	V	250
		DC current	А	1
Short-circuit protec	tion fuse, 600V			
	High fault			
	-	Short circuit current	kA	100
		Fuse rating	А	60
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	80
Contact rating of au	uxiliary contacts according to UL			A600 - P600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Prote	ection			
Pollution degree				3
Dimensions [mm (ii	n)]			

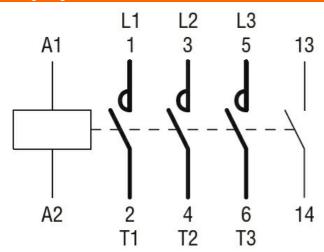
BF1810A230



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 18A, AC COIL 50/60HZ, 230VAC, 1NO AUXILIARY CONTACT



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

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	cULus
	EAC
IM classification	

ETIM 8.0

EC000066 -Power contactor, AC switching