



Product type designation       BF12         Contract characteristics       Nr. 3         Rated insulation voltage Ui IEC/EN       V       690         Rated insulation voltage Uimp       kV       6         Operational frequency       min       Hz       25         max       Hz       400       28         Operational frequency       min       Hz       25         max       Hz       400       28         Operational free air thermal current Ith       A       28         Operational current le       AC-1 (≤40°C)       A       28         AC-3 (≤440V ≤55°C)       A       12       AC-4 (400V)       A       7.9         Rated operational power AC-3 (T≤55°C)       230V       kW       3.2       440V       kW       5.5         S00V       kW       5.5       500V       kW       5.5       500V       kW       5         Rated operational power AC-1 (T≤40°C)       230V       kW       10       400V       400V       kW       5.5         S00V       kW       5       5       500V       kW       5       690V       32         IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series       ≤24V	Product designation			Power contactor
Number of poles         Nr.         3           Rated insulation voltage Ui IEC/EN         V         690           Operational frequency         min         Hz         25           max         Hz         400         12           IEC Conventional free air thermal current lth         A         28           Operational current le         AC-1 (\$40°C)         A         28           AC-1 (\$55°C)         A         23         AC-1 (\$55°C)         A         23           AC-1 (\$40VV)         A         7.9         Rated operational power AC-3 (T<55°C)				BF12
Rated insulation voltage Ui IEC/EN         V         690           Rated inpulse withstand voltage Uimp         kV         6           Operational frequency         min         Hz         25           max         Hz         400         EC Conventional frequency         A         28           Operational current le         AC-1 (≤40°C)         A         28           Operational current le         AC-1 (≤55°C)         A         20           AC-1 (≤70°C)         A         20         AC-3 (≤440V ≤55°C)         A         12           AC-4 (400V)         A         7.9         Rated operational power AC-3 (T555°C)         230V         kW         3.2           415V         kW         5.5         500V         kW         5.5           500V         kW         5.5         500V         kW         10           400V         kW         10         400V         kW         10           400V         kW         10         400V         kW         12           EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series         524V         A         17           48V         A         10         48V         A         12           EC max current le			Nla	2
Rated impulse withstand voltage Uimp         kV         6           Operational frequency         min         Hz         25           max         Hz         400         12           IEC Conventional free air thermal current lth         A         28           Operational current le         AC-1 (≤40°C)         A         28           AC-1 (≤40°C)         A         28         AC-1 (≤55°C)         A         23           AC-1 (≤40°C)         A         28         AC-1 (≤40°C)         A         28           AC-1 (≤40°C)         A         28         AC-1 (≤40°C)         A         28           AC-1 (≤40°C)         A         28         AC-1 (≤40°C)         A         28           Rated operational power AC-3 (T≤55°C)         230V         kW         3.2         400V         kW         5.5           S00V         kW         5.5         500V         kW         5.6         50V         kW         10           400V         kW         10         400V         kW         18         500V         kW         13           IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series         S24V         A         17           EC max current le in DC1 with L/R ≤ 1ms w				
Operational frequency         min         Hz         25           max         HZ         400           IEC Conventional free air thermal current lth         A         28           Operational current le         AC-1 (s40°C)         A         28           AC-1 (s55°C)         A         23         AC-1 (s55°C)         A         23           AC-3 (s4400V s55°C)         A         12         AC-4 (400V)         A         7.9           Rated operational power AC-3 (T≤55°C)         230V         kW         3.2         400V         kW         5.5           S00V         kW         5.5         500V         kW         5.5           Rated operational power AC-1 (T≤40°C)         230V         kW         10           400V         kW         5.5         500V         kW         32           IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series         ≤24V         A         17           48V         A         15         75V         A         13           110V         A         6         220V         A         -           IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series         ≤24V         A         10           48V         A				
min       Hz       25 (400)         IEC Conventional free air thermal current lth       A       28         Operational current le       AC-1 (\$40°C)       A       28         AC-1 (\$55°C)       A       23       AC-1 (\$55°C)       A       20         AC-3 (\$4400 > 55°C)       A       12       AC-4 (400V)       A       7.9         Rated operational power AC-3 (T≤55°C)       230V       kW       3.2       400V       KW       5.7         415V       KW       5.2       440V       KW       5.5       500V       KW       5         Rated operational power AC-1 (T≤40°C)       230V       kW       10       400V       kW       5.5         Souv       kW       5       5       5       5       5       5         Rated operational power AC-1 (T≤40°C)       230V       kW       10       400V       kW       3.2         EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series       ≤24V       A       15       75V       A       13         110V       A       6       220V       A       -       14         EC max current le in DC1 with L/R ≤ 1ms with 2 poles in series       ≤24V       A       20			KV	0
max         Hz         400           IEC Conventional free air thermal current lth         A         28           Operational current le         AC-1 (≤40°C)         A         28           AC-1 (≤57°C)         A         20         AC-1 (≤57°C)         A         20           AC-3 (≤57°C)         A         20         AC-3 (≤57°C)         A         12           AC-4 (400V)         A         7.9         Rated operational power AC-3 (T≤55°C)         230V         kW         3.2           400V         kW         5.7         415V         kW         6.2           440V         kW         5.5         500V         kW         5           500V         kW         5         690V         kW         5           8ated operational power AC-1 (T≤40°C)         230V         kW         10         400V         kW         10           400V         kW         10         400V         kW         15         5           500V         kW         23         690V         kW         32         11           IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series         ≤24V         A         12           1220V         A         -         <	Operational frequency	min		25
IEC Conventional free air thermal current lthA28Operational current leAC-1 (≤40°C)A28AC-1 (≤55°C)A23AC-1 (≤70°C)A20AC-3 (≤440V ≤55°C)A12AC-4 (400V)A7.9Rated operational power AC-3 (T≤55°C)230VkW3.2400VkW5.7415VkW6.2440VkW5.5500VkW5Rated operational power AC-1 (T≤40°C)230VkW8690VkW5Rated operational power AC-1 (T≤40°C)230VkW10400VkW23690VkW23690VkW23690VkW23690VkW23Calce max current le in DC1 with L/R ≤ 1ms with 1 poles in series≤24VA1748VA13110VA6220VA-IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series≤24VA121EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series≤24VA220VA11EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series≤24VA220VA11EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series≤24VA220VA1				
Operational current le         AC-1 (≤40°C)         A         28           AC-1 (≤55°C)         A         23         AC-1 (≤70°C)         A         20           AC-3 (≤440V <55°C)	IFC Conventional trac air thermal surrent lth	max		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			A	28
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Operational current le	$A \subset 1 (< 10^{\circ} C)$	۸	20
$\begin{array}{cccc} & AC-1 (\leq 70^{\circ} C) & A & 20 \\ AC-3 (\leq 4400 \times 55^{\circ} C) & A & 12 \\ AC-4 (400V) & A & 7.9 \end{array}$ Rated operational power AC-3 (T $\leq 55^{\circ} C$ ) $\begin{array}{c} 230V & kW & 3.2 \\ 400V & kW & 5.7 \\ 415V & kW & 6.2 \\ 440V & kW & 5.5 \\ 500V & kW & 5 \end{array}$ Rated operational power AC-1 (T $\leq 40^{\circ} C$ ) $\begin{array}{c} 230V & kW & 10 \\ 400V & kW & 5 \end{array}$ Rated operational power AC-1 (T $\leq 40^{\circ} C$ ) $\begin{array}{c} 230V & kW & 10 \\ 400V & kW & 18 \\ 500V & kW & 23 \\ 690V & kW & 32 \end{array}$ IEC max current le in DC1 with L/R $\leq 1$ ms with 1 poles in series $\begin{array}{c} \leq 24V & A & 17 \\ 48V & A & 15 \\ 75V & A & 13 \\ 110V & A & 6 \\ 220V & A & - \end{array}$ IEC max current le in DC1 with L/R $\leq 1$ ms with 2 poles in series $\begin{array}{c} \leq 24V & A & 20 \\ 48V & A & 20 \\ 75V & A & 13 \\ 110V & A & 6 \\ 220V & A & 1 \end{array}$ IEC max current le in DC1 with L/R $\leq 1$ ms with 2 poles in series $\begin{array}{c} \leq 24V & A & 20 \\ 48V & A & 20 \\ 75V & A & 13 \\ 110V & A & 6 \\ 220V & A & 1 \end{array}$		. ,		
AC-3 (≤440V ≤55°C)       A       12         AC-4 (400V)       A       7.9         Rated operational power AC-3 (T≤55°C)       230V       kW       3.2         400V       kW       5.7       415V       kW       6.2         440V       kW       5.5       500V       kW       5         Rated operational power AC-1 (T≤40°C)       230V       kW       10         400V       kW       10       400V       kW       18         500V       kW       10       400V       kW       13         10V       kW       10       400V       kW       32         IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series       ≤24V       A       15         75V       A       13       110V       A       6         220V       A       -       1       1       1         IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series       ≤24V       A       20         48V       A       13       1       1       1         IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series       ≤24V       A       20         48V       A       12       20       48V       A <td></td> <td></td> <td></td> <td></td>				
AC-4 (400V)         A         7.9           Rated operational power AC-3 (T≤55°C)         230V         kW         3.2           400V         kW         5.7           415V         kW         6.2           440V         kW         5.5           500V         kW         5           Rated operational power AC-1 (T≤40°C)         230V         kW         10           400V         kW         10         400V         kW         18           500V         kW         23         18         10         400V         kW         18           500V         kW         23         230V         kW         10         400V         kW         18           16C max current le in DC1 with L/R ≤ 1ms with 1 poles in series $\leq 24V$ A         17         48V         A         15           75V         A         13         110V         A         6         220V         A         -           IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series $\leq 24V$ A         20         75V         A         18           110V         A         13         220V         A         1         1 <t< td=""><td></td><td>. ,</td><td></td><td></td></t<>		. ,		
Rated operational power AC-3 (T≤55°C)230VkW3.2400VkW5.7415VkW6.2440VkW5.5500VkW5690VkW10400VkW10400VkW18500VkW23690VkW23690VkW231EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series $≤24V$ A220VA-1EC max current le in DC1 with L/R ≤ 1ms with 2 poles in series $≤24V$ A220VA-1EC max current le in DC1 with L/R ≤ 1ms with 2 poles in series $≤24V$ A220VA-1EC max current le in DC1 with L/R ≤ 1ms with 2 poles in series $≤24V$ A220VA-1EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series $≤24V$ A220VA11EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series $≤24V$ A220VA11EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series $≤24V$ A220VA11EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series $≤24V$ A220VA11EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series $≤24V$ A220VA220VA220VA220VA220VA<		, , , , , , , , , , , , , , , , , , ,		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Poted operational power AC 2 (T <ee°c)< td=""><td>AC-4 (400V)</td><td>A</td><td>7.9</td></ee°c)<>	AC-4 (400V)	A	7.9
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Rated operational power AC-3 (1555 C)	2201/	L\\/	2.2
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$				
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$ \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) $230V$ kW10 $400V$ kW18 $500V$ kW23 $690V$ kW32IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series $≤24V$ A17 $48V$ A1575VA13 $110V$ A6220VA-IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series $≤24V$ A20 $48V$ A2075VA18 $110V$ A13220VA1IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series $≤24V$ A20 $75V$ A18110VA13 $220V$ A11220VA1IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series $≤24V$ A22 $48V$ A2248VA22 $75V$ A2048VA22 $75V$ A2048VA22 $75V$ A2048VA22 $75V$ A2048VA22 $75V$ A2048VA22 $48V$ A2275VA20				
$\begin{array}{c} 230 \lor  k \Downarrow  10 \\ 400 \lor  k \Downarrow  18 \\ 500 \lor  k \Downarrow  23 \\ 690 \lor  k \Downarrow  32 \end{array}$ IEC max current le in DC1 with L/R < 1ms with 1 poles in series $\begin{array}{c} \leq 24 \lor  A & 17 \\ 48 \lor  A & 15 \\ 75 \lor  A & 13 \\ 110 \lor  A & 6 \\ 220 \lor  A & - \end{array}$ IEC max current le in DC1 with L/R < 1ms with 2 poles in series $\begin{array}{c} \leq 24 \lor  A & 20 \\ 48 \lor  A & 20 \\ 75 \lor  A & 13 \\ 110 \lor  A & 6 \\ 220 \lor  A & - \end{array}$ IEC max current le in DC1 with L/R < 1ms with 2 poles in series $\begin{array}{c} \leq 24 \lor  A & 20 \\ 48 \lor  A & 20 \\ 75 \lor  A & 13 \\ 110 \lor  A & 13 \\ 220 \lor  A & 1 \end{array}$ IEC max current le in DC1 with L/R < 1ms with 3 poles in series $\begin{array}{c} \leq 24 \lor  A & 22 \\ 48 \lor  A & 22 \\ 75 \lor  A & 20 \end{array}$	Rated operational power AC-1 (T<40°C)	0001		0
$ \begin{array}{c c} 400 \lor k \Downarrow 23 \\ 500 \lor k \Downarrow 32 \end{array} \\ \hline \begin{tabular}{ll} IEC max current le in DC1 with L/R \leq 1ms with 1 poles in series \hline \\ \hline \begin{tabular}{ll} S24 \lor A & 17 \\ 48 \lor A & 15 \\ 75 \lor A & 13 \\ 110 \lor A & 6 \\ 220 \lor A & - \end{array} \\ \hline \begin{tabular}{ll} IEC max current le in DC1 with L/R \leq 1ms with 2 poles in series \hline \\ \hline \begin{tabular}{ll} S24 \lor A & 20 \\ 48 \lor A & 20 \\ 75 \lor A & 18 \\ 110 \lor A & 13 \\ 220 \lor A & 1 \end{array} \\ \hline \begin{tabular}{ll} IEC max current le in DC1 with L/R \leq 1ms with 2 poles in series \hline \\ \hline \begin{tabular}{ll} S24 \lor A & 20 \\ 75 \lor A & 18 \\ 110 \lor A & 13 \\ 220 \lor A & 1 \end{array} \\ \hline \begin{tabular}{ll} IEC max current le in DC1 with L/R \leq 1ms with 3 poles in series \hline \\ \hline \begin{tabular}{ll} IEC max current le in DC1 with L/R \leq 1ms with 3 poles in series \hline \\ \hline \begin{tabular}{ll} S24 \lor A & 22 \\ 48 \lor A & 22 \\ 75 \lor A & 20 \end{array} \\ \hline \end{tabular}$		230\/	k\//	10
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$ \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 $\leq 24V$ A1748VA1575VA13110VA6220VA-IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series $\leq 24V$ A2048VA2075VA18110VA13220VA1IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series $\leq 24V$ A2075VA18110VA13220VA11220VA1IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series $\leq 24V$ A2248VA2275VA20				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	IFC max current le in DC1 with L/R < 1ms with 1 poles in series	0001		02
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		<24\/	А	17
$\begin{array}{c cccc} 75 & A & 13 \\ 110 & A & 6 \\ 220 & A & - \end{array}$ IEC max current le in DC1 with L/R < 1ms with 2 poles in series $\begin{array}{c ccccccccccccccccccccccccccccccccccc$				
$\begin{array}{c cccc} & 110 & A & 6 \\ 220 & A & - \end{array} \\ \hline \mbox{IEC max current le in DC1 with L/R \leq 1ms with 2 poles in series} \\ & \leq 24 & A & 20 \\ & 48 & A & 20 \\ & 48 & A & 20 \\ & 75 & A & 18 \\ & 110 & A & 13 \\ & 220 & A & 1 \\ \hline \mbox{IEC max current le in DC1 with L/R \leq 1ms with 3 poles in series} \\ & \leq 24 & A & 22 \\ & 48 & A & 22 \\ & 48 & A & 22 \\ & 75 & A & 20 \\ \hline \end{array}$				
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IEC max current le in DC1 with L/R $\leq$ 1ms with 2 poles in series $\leq 24V$ A2048VA2075VA18110VA13220VA1IEC max current le in DC1 with L/R $\leq$ 1ms with 3 poles in series $\leq 24V$ A2248VA2275VA20				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
$ \begin{array}{ccccc} 48 \mbox{V} & \mbox{A} & 20 \\ 75 \mbox{V} & \mbox{A} & 18 \\ 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 $\leq $1$ms with $3$ poles in series} \\ \end{array} \\ \begin{array}{ccccccccccccccccccccccccccccccccccc$		≤24V	А	20
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				
$\begin{tabular}{cccc} 110 V & A & 13 \\ 220 V & A & 1 \end{tabular}$ IEC max current le in DC1 with L/R $\leq$ 1ms with 3 poles in series $\begin{tabular}{cccc} \leq 24 V & A & 22 \\ 48 V & A & 22 \\ 75 V & A & 20 \end{tabular}$				
$\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 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				



BF1210A12060 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 60HZ,

## 120VAC, 1NO AUXILIARY CONTACT 220V А 11 IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series ≤24V А 20 48V 20 А 75V 20 А

	750	A	20
	110V	А	16
	220V		12
	2200	A	12
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 1 poles in series			
	≤24V	А	12
	48V	A	11
	75V	A	10
	110V	Α	2
	220V	А	_
IEC may aurrent to in DC2 DC5 with L/D < 15mg with 2 palag in agrica			
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 2 poles in series			
	≤24V	А	15
	48V	Α	13
	75V	А	12
	110V	А	8
	220V	Α	2
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 3 poles in series			
	≤24V	А	18
	48V	А	18
	75V	Α	15
	110V	А	12
	220V		
	2200	A	6
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 4 poles in series			
	≤24V	А	15
	48V	А	15
	75V	A	15
	110V	Α	16
	220V	А	7
Short-time allowable current for 10s (IEC/EN60947-1)	-	А	150
		~	150
Protection fuse			
	gG (IEC)	А	32
	aM (IEC)	А	12
Malving connector (DMC value)			
Making capacity (RMS value)		A	120
Breaking capacity at voltage			
	440V	А	96
	500V	A	96
	690V	А	94
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			
	141	147	0
	Ith	W	2
	AC-3	W	0.4
Tightening torque for terminals			
	min	Nim	15
	min	Nm	1.5
	max	Nm	1.8
	min	lbin	1.1
	max	Ibin	1.5
	max		1.0
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	main	Ibio	0.0

0.8

lbin

min



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 60HZ, 120VAC, 1NO AUXILIARY CONTACT

BF1210A12060

		max	lbin	0.74
Max number of wires	simultaneously connectable		Nr.	2
Conductor Section	AWG/Kcmil			
		max		10
	Flexible w/o lug conductor section	Пах		10
		min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section			
	-	min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section			
		min	mm²	1
		max	mm²	4
Power terminal prote	ction according to IEC/EN 60529			IP20 when
-				properly wired
Mechanical features				
Operating position		•		Manthe - La L
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN ra 35mm
Weight			n	359
Conductor section			g	555
	AWG/kcmil conductor section			
		max		10
Auxiliary contact char	acteristics	max		10
Auxiliary contact char Thermal current Ith	acteristics	max	A	10 10
Thermal current Ith		max	A	
	esignation	max	A	10
Thermal current Ith IEC/EN 60947-5-1 de	esignation	230V	A 	10
Thermal current Ith IEC/EN 60947-5-1 de	esignation			10 A600 - P600
Thermal current Ith IEC/EN 60947-5-1 de	esignation	230V	A	10 A600 - P600 3
Thermal current Ith IEC/EN 60947-5-1 de	esignation 15	230V 400V	A A	10 A600 - P600 3 1.9
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC	esignation 15	230V 400V	A A	10 A600 - P600 3 1.9
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC	esignation 15	230V 400V 500V	A A A	10 A600 - P600 3 1.9 1.4
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15	230V 400V 500V	A A A	10 A600 - P600 3 1.9 1.4
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15	230V 400V 500V 110V 24V 48V	A A A A	10 A600 - P600 3 1.9 1.4 5.7 5.7 2.9
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15	230V 400V 500V 110V 24V 48V 60V	A A A A A A A	10 A600 - P600 3 1.9 1.4 5.7 5.7 5.7 2.9 2.3
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15	230V 400V 500V 110V 24V 48V 60V 110V	A A A A A A A A A	10 A600 - P600 3 1.9 1.4 5.7 5.7 5.7 2.9 2.3 1.25
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15	230V 400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A A A A A	10 A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A	10 A600 - P600 3 1.9 1.4 5.7 5.7 5.7 5.7 2.9 2.3 1.25 1.1 0.55
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15	230V 400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A A A A A	10 A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC	esignation 15	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A A A	10 A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operations Mechanical life	esignation 15	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A A Cycles	10 A600 - P600 3 1.9 1.4 5.7 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life	esignation 15	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A A A	10 A600 - P600 3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	esignation 15 212 213	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A A A A A Cycles	10 A600 - P600 3 1.9 1.4 5.7 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	esignation 15	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A A A Cycles cycles	10 A600 - P600 3 1.9 1.4 5.7 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 2000000
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	esignation 15 212 213 10d according to EN/ISO 13489-1	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A A A Cycles cycles	10 A600 - P600 3 1.9 1.4 5.7 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 2000000
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B <sup>2</sup>	esignation 15 212 213 10d according to EN/ISO 13489-1	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A A A Cycles cycles	10 A600 - P600 3 1.9 1.4 5.7 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 2000000 2000000 2000000
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B <sup>2</sup>	esignation 15 212 213 10d according to EN/ISO 13489-1	230V 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A A A A Cycles cycles	10 A600 - P600 3 1.9 1.4 5.7 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 2000000



BF1210A12060 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 60HZ, 120VAC, 1NO AUXILIARY CONTACT

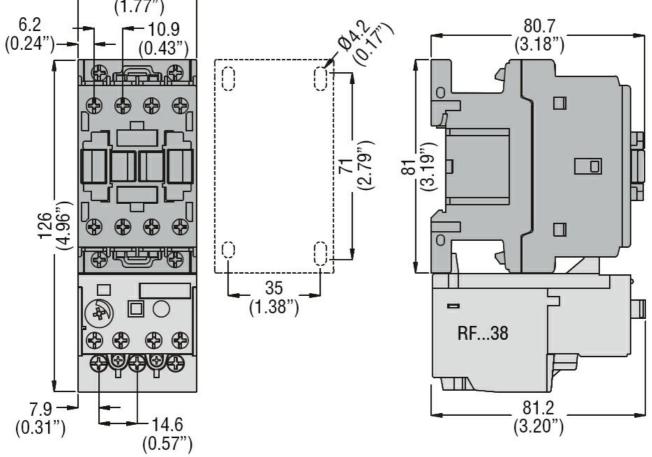
Rated AC voltage at 60Hz		V	120
AC operating voltage			
of 60Hz coil powered at 60Hz			
pick-up			
	min	%Us	80
	max	%Us	110
drop-out	_		
	min	%Us	20
	max	%Us	55
AC average coil consumption at 20°C			
of 60Hz coil powered at 60Hz			
	in-rush	VA	75
	holding	VA	9
Dissipation at holding ≤20°C 50Hz		W	2.5
Max cycles frequency			
Mechanical operation		cycles/h	3600
Operating times			
Average time for Us control			
in AC			
Closing NO			•
	min	ms	8
	max	ms	24
Opening NO			10
	min	ms	10
	max	ms	20
Closing NC			
	min	ms	14
	max	ms	28
Opening NC	min		7
	min	ms	7
UL technical data	max	ms	18
Full-load current (FLA) for three-phase AC motor			
rui-ioau curieni (rLA) ioi tiree-priase AC motor	at 480V	۸	11
	at 600V	A	11 11
Violded machanical parformance	al 600 v	A	11
Yielded mechanical performance			
for single-phase AC motor	110/120V	HP	1
	230V	HP	1
for three phone AC motor	2300	пг	2
for three-phase AC motor	200/2001	ЦП	5
	200/208V 220/230V	HP HP	5 5
	460/480V	HP	5 7.5
	460/480V 575/600V	HP	7.5 10
General USE	575/600V	٦F	10
Contactor			
Contactor		٨	28
	AC current	A	28
Contactor Auxiliary contacts			
	AC voltage	V	600
	AC voltage AC current	V A	600 10
	AC voltage	V	600

High fault



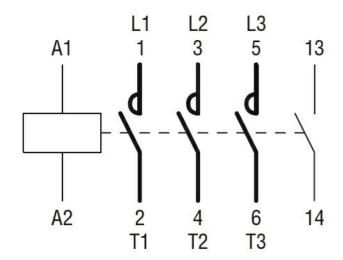
BF1210A12060 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 60HZ, 120VAC, 1NO AUXILIARY CONTACT

	Short circuit current	kA	100
	Fuse rating	А	30
	Fuse class		J
Standard fault			
	Short circuit current	kA	5
	Fuse rating	А	70
Contact rating of auxiliary 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 & Protection			
Pollution degree			3
Dimensions			
45 (1.77")	0 - 2 - 0	0.7	



## Wiring diagrams





## Certifications and compliance

## 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
	EAC
ETIM classification	

**ETIM 8.0** 

EC000066 -Power contactor, AC switching