BF3800A23060



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 38A, AC COIL 60HZ, 230VAC



Product type designation         BF38           Contact 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         100           IEC Conventional free air thermal current Ith         A         56           Operational current Ie         AC-1 (≤40°C)         A         56           AC-1 (≤40°C) with 16mm² wire and fork end lugA         60         60           AC-1 (≤55°C)         A         45           AC-1 (≤55°C) with 16mm² wire and fork end lugA         48           AC-1 (≤70°C) with 16mm² wire and fork end lugA         48           AC-1 (≤70°C) with 16mm² wire and fork end lugA         42           AC-3 (≤440V ≤55°C)         A         38           AC-4 (400V)         A         15.5           Rated operational power AC-3 (T≤55°C)         230V         kW         11           400V         kW         18.5         415V         kW         18.5           415V         kW         18.5         500V         kW         20           690V				
Product type designation BF38 Contact characteristics Number of poles Nr. 3 Rated insulation voltage Uinp Nr. 4V 690 Rated insulation voltage Uinp Sr. 4V 6 Operational frequency Nr. 4V 6 Derational frequency Nr. 4V 6 Conventional free air thermal current Ith A 56 Derational current le AC-1 (≤40°C) A 56 AC-1 (≤40°C) A 56 AC-1 (≤40°C) A 56 AC-1 (≤55°C) with 16mm <sup>2</sup> wire and fork end lugA 60 AC-1 (≤55°C) With 16mm <sup>2</sup> wire and fork end lugA 42 AC-1 (≤55°C) With 16mm <sup>2</sup> wire and fork end lugA 42 AC-1 (≤55°C) With 16mm <sup>2</sup> wire and fork end lugA 42 AC-3 (≤400V) A 15.5 Rated operational power AC-3 (T≤55°C) 230V kW 11 400V kW 18.5 415V kW 18.5 415V kW 18.5 415V kW 18.5 415V kW 20 690V kW 20 690V kW 20 690V kW 21 400V kW 36 500V kW 45 690V kW 45	Product designation			Power contactor
Contact characteristicsNumber of polesNr.3Rated insulation voltage Ui IEC/ENV690Rated insulation voltage UimpKV6Operational frequencyminHz25maxHz40016IEC Conventional free air thermal current lthA56Operational current leAC-1 (≤40°C)A56AC-1 (≤40°C) with 16mm² wire and fork end lugA60AC-1 (≤55°C)AAC-1 (≤55°C) with 16mm² wire and fork end lugA48AC-1 (≤70°C)AAC-1 (≤55°C) with 16mm² wire and fork end lugA42AC-1 (≤70°C)AAC-1 (≤70°C) with 16mm² wire and fork end lugA42AC-1 (≤70°C)AAC-1 (≤70°C) with 16mm² wire and fork end lugA42AC-1 (≤70°C) with 16mm² wire and fork end lugA42AC-3 (≤400V)A15.5SAC-4 (40V)NKW18.5Rated operational power AC-3 (T≤55°C)230VkW11400VkW18.5So0VkW20690VkW20690VkW20GegovkW42435500VkW20500VkW20EIC max current le in DC1 with L/R ≤ 1ms with 1 poles in series≤24VA3548VA3075VA23110VA8220Va110VA32220VA110VA32220VA110VA32220VA110VA3222				
Number of polesNr.3Rated insulation voltage Ui IEC/ENV690Operational frequencyminHz25Operational frequencyminHz400IEC Conventional free air thermal current IthA56Operational current IeAC-1 (\$40°C)A56AC-1 (\$40°C) with 16mm² wire and fork end lugA60AC-1 (\$55°C) with 16mm² wire and fork end lugA48AC-1 (\$55°C) with 16mm² wire and fork end lugA48AC-1 (\$70°C)A40AC-1 (\$70°C) with 16mm² wire and fork end lugA48AC-1 (\$70°C)A40AC-1 (\$70°C) with 16mm² wire and fork end lugA48AC-1 (\$70°C)A40AC-1 (\$70°C) with 16mm² wire and fork end lugA48AC-1 (\$70°C)A40Rated operational power AC-3 (T≤55°C)230V kW11.5500V kW18.54150 kW18.5440V kW18.5500V kW20690V kW22690V kW22690V kW36220V kW230V kW45690V kW36500V kW364200 kW23075V A23110V A8220V A220V k3534343				
Rated insulation voltage Ui IEC/ENV690Rated inpulse withstand voltage UimpkV6Operational frequencyminHz25maxHz400400IEC Conventional free air thermal current lthA56Operational current leAC-1 (≤40°C) with 16mm² wire and fork end lugA60AC-1 (≤55°C)A45AC-1 (≤55°C) with 16mm² wire and fork end lugA48AC-1 (≤55°C) with 16mm² wire and fork end lugA48AC-1 (≤55°C) with 16mm² wire and fork end lugA42AC-3 (≤440V ≤55°C)AAC-3 (≤440V ≤55°C)ARated operational power AC-3 (T≤55°C)230VkWRated operational power AC-3 (T≤55°C)230VkWRated operational power AC-1 (T≤40°C)230VkWRated operational power AC-1 (T≤40°C)230VkW230VkW21440VkB500V690VkW22Rated operational power AC-1 (T≤40°C)230VkW230VkW21440VA36500VkW22Rated operational power AC-1 (T≤40°C)230VkW230VkW21440VA36500VkW22Rated operational power AC-1 (T≤40°C)230VkW230VkW36500VkW221EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series24VA24VA3648W <t< td=""><td></td><td></td><td>Nr.</td><td>3</td></t<>			Nr.	3
Rated impulse withstand voltage UimpkV6Operational frequencyminHz25 maxHz400IEC Conventional free air thermal current lthA56Operational current leAC-1 (\$40°C)A56AC-1 (\$40°C) with 16mm² wire and fork end lugA60 AC-1 (\$55°C)A45AC-1 (\$55°C) with 16mm² wire and fork end lugA48 AC-1 (\$70°C) with 16mm² wire and fork end lugA42 AC-3 (\$440V \$55°C)ARated operational power AC-3 (T≤55°C)230VkW11 400V415.5Rated operational power AC-3 (T≤55°C)230VkW18.5 440VRated operational power AC-1 (T≤40°C)230VkW20 690VRated operational power AC-1 (T≤40°C)230VkW21 400VEIC max current le in DC1 with L/R ≤ 1ms with 1 poles in series\$24VA35 48VState\$24VA36 48V34 475VAIEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series\$24VA36 48VLEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series\$24VA36 48VLEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series\$24VA36 48VLEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series\$24VA36 48VLEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series\$24VA36 48VLEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series\$24VA36 48VLEC max current le in DC1 with L				
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Operational current le         AC-1 (≤40°C)         A         56           AC-1 (≤40°C)         with 16mm² wire and fork end lugA         60           AC-1 (≤55°C)         A         45           AC-1 (≤55°C)         A         40           AC-1 (≤55°C)         A         40           AC-1 (≤55°C)         A         40           AC-1 (≤70°C)         A         40           AC-1 (≤70°C)         A         38           AC-1 (≤70°C)         A         38           AC-3 (≤440V ≤55°C)         A         38           AC-4 (400V)         A         15.5           Rated operational power AC-3 (T≤55°C)         230V         kW         11           400V         kW         18.5         415V         kW         18.5           415V         kW         18.5         416V         kW         20           690V         kW         22         230V         kW         21         400V         kW         23           10V         kW         23         10V         kW         26         500V         kW         62           IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series         ≤24V         A         36         <		max	Hz	400
AC-1 (≤40°C)       A       56         AC-1 (≤40°C) with 16mm² wire and fork end lugA       60         AC-1 (≤55°C)       A       45         AC-1 (≤55°C) with 16mm² wire and fork end lugA       48         AC-1 (≤70°C)       A       40         AC-1 (≤70°C)       A       40         AC-1 (≤70°C)       A       40         AC-1 (≤70°C) with 16mm² wire and fork end lugA       42         AC-3 (≤440V ≤55°C)       A       38         AC-4 (400V)       A       15.5         Rated operational power AC-3 (T≤55°C)       230V       kW       11         400V       kW       18.5       440V       kW       18.5         440V       kW       18.5       440V       kW       18.5         440V       kW       18.5       440V       8       500V       kW       20         690V       kW       22       230V       kW       42       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20 <td>IEC Conventional free air thermal current Ith</td> <td></td> <td>А</td> <td>56</td>	IEC Conventional free air thermal current Ith		А	56
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AC-1 (≤55°C) A 45 $AC-1 (≤55°C) with 16mm² wire and fork end lugA 48$ $AC-1 (≤70°C) A 40$ $AC-1 (≤70°C) with 16mm² wire and fork end lugA 42$ $AC-3 (≤440V ≤55°C) A 38$ $AC-4 (400V) A 15.5$ Rated operational power AC-3 (T<55°C) $230V kW 11$ $400V kW 18.5$ $415V kW 18.5$ $415V kW 18.5$ $440V kW 18.5$ $440V kW 18.5$ $500V kW 20$ $690V kW 22$ Rated operational power AC-1 (T≤40°C) $230V kW 45$ $690V kW 45$ $62$ $IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series$ $224V A 36$ $48V A 30$ $75V A 23$ $110V A 8$ $220V A -$ $IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series$ $24V A 36$ $48V A 30$ $75V A 23$ $110V A 32$ $220V A -$ $IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series$ $24V A 36$ $48V A 34$ $75V A 29$ $110V A 32$ $20V A 4$ $1EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series$ $21V A 36$ $220V A 4$			lugA	60
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$				45
AC-1 (≤70°C)       A       40         AC-1 (≤70°C)       With 16mm² wire and fork end lugA       42         AC-3 (≤440V ≤55°C)       A       38         Rated operational power AC-3 (T≤55°C)       230V       kW       11         400V       kW       18.5         415V       kW       18.5         440V       kW       18.5         440V       kW       18.5         500V       kW       20         690V       kW       22         Rated operational power AC-1 (T≤40°C)       230V       kW       21         400V       kW       36       500V       kW       36         500V       kW       22       230V       kW       45         690V       kW       36       500V       kW       45         690V       kW       36       30       75V       A       23         IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series       22V       A       36         48V       A       36       48V       A       36         48V       A       32       220V       A       36         220V       A       32       220V			lugA	
AC-1 (≤70°C) with 16mm² wire and fork end lugA42AC-3 (≤440V ≤55°C)A38AC-4 (400V)A15.5Rated operational power AC-3 (T≤55°C)230VkW11400VkW18.5415VkW18.5415VkW18.5500VkW20690VkW22Rated operational power AC-1 (T≤40°C)230VkW21400VkW36500VkW45690VkW62IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series≤24VA3548VA3075VA23110VA8220VA-IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series≤24VA3648VA3075VA23110VA8220VA-IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series≤24VA3648VA3475VA29110VA32220VA4IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series≤24VA3648VA32220VA41EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series≤24VA361EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series≤24VA3648VA32220VA41EC max current				
AC-3 (≤440V ≤55°C)       A       38         AC-3 (400V)       A       15.5         Rated operational power AC-3 (T≤55°C)       230V       kW       11         400V       kW       18.5         415V       kW       18.5         415V       kW       18.5         440V       kW       18.5         500V       kW       22         Rated operational power AC-1 (T≤40°C)       230V       kW       21         400V       kW       36       500V       kW       36         500V       kW       22       690V       kW       62         IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series       ≤24V       A       35         48V       A       30       75V       A       23         110V       A       8       220V       A       -         IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series       ≤24V       A       36         48V       A       34       75V       A       29         110V       A       32       22       20V       A       4         IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series       24V       A			lugA	
Rated operational power AC-3 (T≤55°C) 230V   kW   11   400V   kW   18.5   415V   kW   18.5   440V   kW   18.5   500V   kW   20   690V   kW   22   690V   kW   22   690V   kW   22   690V   kW   36   500V   kW   45   690V   kW   45   690V   kW   45   690V   kW   62   1EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series $≤24V   A   35   48V   A   30   75V   A   23   110V   A   8   220V   A   -   1EC max current le in DC1 with L/R ≤ 1ms with 2 poles in series   ≤24V   A   36   48V   A   30   75V   A   23   110V   A   8   220V   A   -   1EC max current le in DC1 with L/R ≤ 1ms with 2 poles in series   ≤24V   A   36   48V   A   34   75V   A   23   110V   A   8   220V   A   -   1EC max current le in DC1 with L/R ≤ 1ms with 2 poles in series   ≤24V   A   36   48V   A   34   75V   A   23   110V   A   8   220V   A   -   1EC max current le in DC1 with L/R ≤ 1ms with 2 poles in series   ≤24V   A   36   48V   A   34   75V   A   23   110V   A   32   220V   A   -   1EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series   ≤24V   A   36   48V   A   34   75V   A   29   110V   A   32   220V   A   4   1EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series   1EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series   1EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series   1EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series   1EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series   1EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series   1EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series   1EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series   1EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series   1EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series   1EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series   1EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series   1EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series   1EC max current le in DC1 with L/R ≤ 1ms with 3 poles in ser$			-	38
$ 230V  kW  11 \\ 400V  kW  18.5 \\ 415V  kW  18.5 \\ 440V  kW  18.5 \\ 500V  kW  20 \\ 690V  kW  22 \\ \hline \begin{tabular}{lllllllllllllllllllllllllllllllllll$		AC-4 (400V)	А	15.5
$ \begin{array}{cccc} 400 & k & W & 18.5 \\ 415 & k & W & 18.5 \\ 440 & k & W & 18.5 \\ 500 & k & 20 \\ 690 & k & 20 \\ 690 & k & 22 \\ \end{array} \\ \end{tabular} \label{eq:action} \\ \end{tabular} \\ \$	Rated operational power AC-3 (T≤55°C)			
$ \begin{array}{cccc} 415 \lor & k \And & 18.5 \\ 440 \lor & k \And & 18.5 \\ 500 \lor & k \And & 20 \\ 690 \lor & k \And & 22 \end{array} \\ \end{tabular} \label{eq:approx_constraint} \\ \end{tabular} Rated operational power AC-1 (T \le 40 °C) \\ \end{tabular} Rated operational power AC-1 (T \le 40 °C) \\ \end{tabular} \label{eq:approx_constraint} \label{eq:approx_constraint} \\ \end{tabular} \label{eq:approx_constraint} \\ tabul$		230V	kW	11
440V       kW       18.5         500V       kW       20         690V       kW       22         Rated operational power AC-1 (T≤40°C)       230V       kW       21         400V       kW       36       500V       kW       36         500V       kW       45       690V       kW       62         IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series       ≤24V       A       35         48V       A       30       75V       A       23         110V       A       8       220V       A       –         IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series       ≤24V       A       36         48V       A       30       75V       A       23         110V       A       8       220V       A       –         IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series       ≤24V       A       36         48V       A       32       21       21       21         10V       A       32       22       22       22         110V       A       32       22       22       22         110V       A       32		400V	kW	18.5
500VkW20Rated operational power AC-1 (T≤40°C)230VkW21400VkW36500VkW45690VkW62IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series $≤24V$ A3548VA3075VA23110VA8220VA-IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series $≤24V$ A3648VA3075VA23110VA8220VA-IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series $≤24V$ A3648VA3475VA29110VA32220VA4IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in seriesLEC max current le in DC1 with L/R ≤ 1ms with 3 poles in seriesLEC max current le in DC1 with L/R ≤ 1ms with 3 poles in seriesLEC max current le in DC1 with L/R ≤ 1ms with 3 poles in seriesLEC max current le in DC1 with L/R ≤ 1ms with 3 poles in seriesLEC max current le in DC1 with L/R ≤ 1ms with 3 poles in seriesLEC max current le in DC1 with L/R ≤ 1ms with 3 poles in seriesLEC max current le in DC1 with L/R ≤ 1ms with 3 poles in seriesLEC max current le in DC1 with L/R ≤ 1ms with 3 poles in seriesLEC max current le in DC1 with L/R ≤ 1ms with 3 poles in seriesLEC max current le in DC1 with L/R ≤ 1ms with 3 poles in seriesLEC max current le in DC1 with L/R ≤ 1ms with 3 poles in seriesLEC max current le in DC1 with L/R ≤ 1ms with 3 poles in seriesLEC max		415V	kW	18.5
690VkW22Rated operational power AC-1 (T≤40°C)230VkW21400VkW36500VkW45690VkW62IEC max current le in DC1 with L/R < 1ms with 1 poles in series		440V	kW	18.5
Rated operational power AC-1 (T≤40°C) $\begin{array}{c} 230V & kW & 21 \\ 400V & kW & 36 \\ 500V & kW & 45 \\ 690V & kW & 62 \end{array}$ IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series $\begin{array}{c} \leq 24V & A & 35 \\ 48V & A & 30 \\ 75V & A & 23 \\ 110V & A & 8 \\ 220V & A & - \end{array}$ IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series $\begin{array}{c} \leq 24V & A & 35 \\ 48V & A & 30 \\ 75V & A & 23 \\ 110V & A & 8 \\ 220V & A & - \end{array}$ IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series $\begin{array}{c} \leq 24V & A & 36 \\ 48V & A & 34 \\ 75V & A & 29 \\ 110V & A & 32 \\ 220V & A & 4 \end{array}$ IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series		500V	kW	20
$\begin{array}{c} 230 \vee & k \vee & 21 \\ 400 \vee & k \vee & 36 \\ 500 \vee & k \vee & 45 \\ 690 \vee & k \vee & 62 \end{array}$		690V	kW	22
$ \begin{array}{c c} 400 \lor & k \Downarrow & 36 \\ 500 \lor & k \varPsi & 45 \\ 690 \lor & k \varPsi & 62 \end{array} \\ \hline \begin{tabular}{ll} IEC max current le in DC1 with L/R \le 1ms with 1 poles in series \\ & \le 24 \lor & A & 35 \\ 48 \lor & A & 30 \\ 75 \lor & A & 23 \\ 110 \lor & A & 8 \\ 220 \lor & A & - \end{array} \\ \hline \begin{tabular}{ll} IEC max current le in DC1 with L/R \le 1ms with 2 poles in series \\ & \le 24 \lor & A & 36 \\ 48 \lor & A & 36 \\ 48 \lor & A & 34 \\ 75 \lor & A & 29 \\ 110 \lor & A & 32 \\ 220 \lor & A & 4 \end{array} \\ \hline \end{tabular}$	Rated operational power AC-1 (T≤40°C)			
$ \begin{array}{c c} 500V & kW & 45\\ 690V & kW & 62 \end{array} \\ \hline \begin{tabular}{lllllllllllllllllllllllllllllllllll$		230V	kW	21
690VkW62IEC max current le in DC1 with L/R $\leq$ 1ms with 1 poles in series $\leq 24V$ A3548VA3075VA23110VA8220VA-IEC max current le in DC1 with L/R $\leq$ 1ms with 2 poles in series $\leq 24V$ A3648VA3475VA29110VA32220VA4IEC max current le in DC1 with L/R $\leq$ 1ms with 3 poles in seriesIEC max current le in DC1 with L/R $\leq$ 1ms with 3 poles in series		400V	kW	36
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V A 35 48V A 30 75V A 23 110V A 8 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 36 48V A 34 75V A 29 110V A 32 220V A 4 IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series		500V	kW	45
$ \begin{split} \leq 24 \forall & A & 35 \\ 48 \forall & A & 30 \\ 75 \forall & A & 23 \\ 110 \forall & A & 8 \\ 220 \forall & A & - \\ \end{split} $ IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series $ \begin{split} \leq 24 \forall & A & 36 \\ 48 \forall & A & 36 \\ 48 \forall & A & 34 \\ 75 \forall & A & 29 \\ 110 \forall & A & 32 \\ 220 \forall & A & 4 \\ \end{split}$ IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series $ \end{split} $		690V	kW	62
$ \begin{array}{cccc} 48 & A & 30 \\ 75 & A & 23 \\ 110 & A & 8 \\ 220 & A & - \end{array} \\ \hline \mbox{IEC max current le in DC1 with L/R $\leq$ 1ms with 2 poles in series} \\ \hline \mbox{$\leq$ 24V & A & 36 \\ 48 & A & 34 \\ 75 & A & 29 \\ 110 & A & 32 \\ 220 & A & 4 \end{array} \\ \hline \mbox{IEC max current le in DC1 with L/R $\leq$ 1ms with 3 poles in series} \\ \hline \mbox{IEC max current le in DC1 with L/R $\leq$ 1ms with 3 poles in series} \\ \hline \mbox{$k$ limbda = 1ms with 3 poles in series} \\ \hline \mbox{$k$ limbda = 1ms with 3 poles in series} \\ \hline \mbox{$k$ limbda = 1ms with 3 poles in series} \\ \hline \mbox{$k$ limbda = 1ms with 3 poles in series} \\ \hline \mbox{$k$ limbda = 1ms with 3 poles in series} \\ \hline \mbox{$k$ limbda = 1ms with 3 poles in series} \\ \hline \mbox{$k$ limbda = 1ms with 3 poles in series} \\ \hline \mbox{$k$ limbda = 1ms with 3 poles in series} \\ \hline \mbox{$k$ limbda = 1ms with 3 poles in series} \\ \hline \mbox{$k$ limbda = 1ms with 3 poles in series} \\ \hline \mbox{$k$ limbda = 1ms with 3 poles in series} \\ \hline \mbox{$k$ limbda = 1ms with 3 poles in series} \\ \hline \mbox{$k$ limbda = 1ms with 3 poles in series} \\ \hline \mbox{$k$ limbda = 1ms with 3 poles in series} \\ \hline \mbox{$k$ limbda = 1ms with 3 poles in series} \\ \hline \mbox{$k$ limbda = 1ms with 3 poles in series} \\ \hline \mbox{$k$ limbda = 1ms with 3 poles in series} \\ \hline \mbox{$k$ limbda = 1ms with 3 poles in series} \\ \hline \mbox{$k$ limbda = 1ms with 3 poles in series} \\ \hline \mbox{$k$ limbda = 1ms with 3 poles in series} \\ \hline $k$ limbda = 1ms with 3 poles limb$	IEC max current le in DC1 with $L/R \le 1$ ms with	1 poles in series		
$\begin{array}{cccc} 75 & A & 23 \\ 110 & A & 8 \\ 220 & A & - \end{array}$ IEC max current le in DC1 with L/R < 1ms with 2 poles in series $\begin{array}{cccc} \leq 24 & A & 36 \\ 48 & A & 34 \\ 75 & A & 29 \\ 110 & A & 32 \\ 220 & A & 4 \end{array}$ IEC max current le in DC1 with L/R < 1ms with 3 poles in series		≤24V	А	35
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		48V	А	30
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		75V	Α	23
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series $\leq 24V$ A3648VA3475VA29110VA32220VA4		110V	Α	8
$ \begin{array}{c c} \leq 24 \text{V} & \text{A} & 36 \\ & 48 \text{V} & \text{A} & 34 \\ & 75 \text{V} & \text{A} & 29 \\ & 110 \text{V} & \text{A} & 32 \\ & 220 \text{V} & \text{A} & 4 \end{array} \\ \hline \text{IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series} \end{array} $		220V	А	-
$ \begin{array}{cccc} 48 \lor & A & 34 \\ 75 \lor & A & 29 \\ 110 \lor & A & 32 \\ 220 \lor & A & 4 \end{array} $ IEC max current le in DC1 with L/R < 1ms with 3 poles in series	IEC max current le in DC1 with $L/R \le 1$ ms with	2 poles in series		
$\begin{array}{cccc} 75 \ensuremath{V} & \ensuremath{A} & 29 \\ 110 \ensuremath{V} & \ensuremath{A} & 32 \\ 220 \ensuremath{V} & \ensuremath{A} & 4 \end{array}$ IEC max current le in DC1 with L/R < 1ms with 3 poles in series		≤24V	А	36
$\begin{array}{ccc} 110 V & A & 32 \\ 220 V & A & 4 \end{array}$ IEC max current le in DC1 with L/R < 1ms with 3 poles in series		48V	А	34
220VA4IEC max current le in DC1 with L/R < 1ms with 3 poles in series		75V	А	29
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series		110V	А	32
		220V	Α	4
≤24V A 36	IEC max current le in DC1 with $L/R \le 1$ ms with	3 poles in series		
		≤24V	А	36

ENERGY AND AUTOMATION

**BF3800A23060** THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 38A, AC COIL 60HZ, 230VAC

	48V	А	34
	75V	А	33
	110V	A	34
	220V	A	30
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	А	36
	48V	A	34
	48V 75V	A	33
	110V	A	33
	220V		38
IFC may autrent to in DC2 DC5 with L/D < 15mg with 1 palag in agrice	2200	A	30
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series	-0.0.4	•	0.4
	≤24V	A	24
	48V	A	20
	75V	A	17
	110V	А	2,5
	220V	A	
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 2 poles in series			
	≤24V	А	28
	48V	А	25
	75V	А	22
	110V	А	18
	220V	А	3
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	А	32
	48V	А	28
	75V	А	28
	110V	A	23
	220V	A	25
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	А	32
	48V	A	28
	75V	A	28
	110V	A	23
	220V	A	15
Short time allowable aurrent for 10a (IEC/EN60047.1)	220 V	A	320
Short-time allowable current for 10s (IEC/EN60947-1) Protection fuse		A	320
Protection luse			
	gG (IEC)	A	63
	aM (IEC)	A	40
Making capacity (RMS value)		А	380
Breaking capacity at voltage			
	440V	А	304
	500V	А	240
	690V	Α	192
Resistance per pole (average value)		mΩ	2
Power dissipation per pole (average value)			
	lth	W	6
	AC-3	W	2.9
Tightening torque for terminals			
	min	Nm	2.5
	max	Nm	3
	min	Ibin	1.8
	max	Ibin	2.2
Tinhtoning targue for call terminal	max		

## Tightening torque for coil terminal



BF3800A23060 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 38A, AC COIL 60HZ, 230VAC

		min	Nm	0.8
		max	Nm	1
		min	Ibin	0.8
		max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			<u> </u>
	Flowible w/o live conductor conting	max		6
	Flexible w/o lug conductor section	min	mm <sup>2</sup>	2.5
		min max	mm² mm²	16
	Flexible c/w lug conductor section	Πάλ		10
		min	mm²	1
		max	mm²	10
	Flexible with insulated spade lug conduc			10
		min	mm²	1
		max	mm²	10
				IP20 when
Power terminal prote	ction according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	418
Conductor section				
	AWG/kcmil conductor section			
		max		6
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	1400000
Safety related data				
Performance level B	10d according to EN/ISO 13489-1			
		rated load	cycles	1400000
Minnon exists and a		mechanical load	cycles	2000000
	ling to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating Rated AC voltage at 6			V	230
AC operating voltage			v	230
	of 60Hz coil powered at 60Hz pick-up			
	ρισκ-αρ	min	%Us	80
		max	%Us %Us	110
	drop-out	Παλ	/003	
		min	%Us	20
		max	%Us	55
AC average coil cons	sumption at 20°C			
<u> </u>	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
		holding	VA	9
Dissipation at holding	l ≤20°C 50Hz		W	2.5

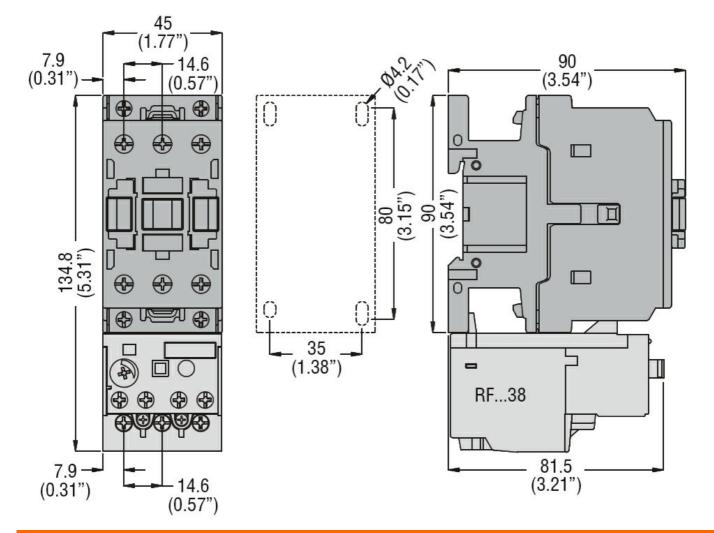


Mechanical operation		cycles/h	3600
Operating times			
Average time for Us control in AC			
Closing NO			
	min	ms	8
	max	ms	24
Opening NO			
	min	ms	5
	max	ms	15
Closing NC			
	min	ms	9
	max	ms	20
Opening NC			
	min	ms	9
	max	ms	17
UL technical data			
Full-load current (FLA) for three-phase AC motor	of 4001/	^	40
	at 480V	A	40
Yielded mechanical performance	at 600V	A	32
for single-phase AC motor			
	110/120V	HP	3
	230V	HP	7.5
for three-phase AC motor	2001		1.0
	200/208V	HP	10
	220/230V	HP	15
	60/480V	HP	30
	575/600V	HP	30
General USE			
Contactor			
A	C current	А	55
Short-circuit protection fuse, 600V			
High fault			
Short circu		kA	100
	use rating	A	100
	use class		J
Standard fault	•		_
Short circu		kA	5
	use rating	A	150
Ambient conditions Temperature			
Operating temperature			
	min	°C	-50
	max	°C	70
Storage temperature	max	<u> </u>	
	min	°C	-60
	max	°Č	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3
Dimensions			

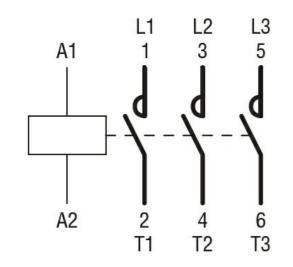
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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 38A, AC COIL 60HZ, 230VAC



Wiring diagrams



## Certifications and 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		

Compliance

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



BF3800A23060 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 38A, AC COIL 60HZ, 230VAC

	UL 60947-4-1	
Certificates		
	CCC	
	cULus	
	EAC	
ETIM classification	on	
		EC000066 -

ETIM 8.0

Power contactor, AC switching