



Product designation       Power contacto         Product type designation       BF40         Contact characteristics       Nr. 3         Number of poles       Nr. 4         Rated insulation voltage UilEC/EN       V       1000         Rated insulation voltage UilEC/EN       V       8         Operational frequency       min       H2       25         max       H2       400       16C         IEC Conventional free air thermal current Ith       A       70       70         Operational current Ie       AC-1 (≤40°C)       A       70         AC-1 (≤40°C)       A       60       AC-1 (≤40°C)       A       60         AC-1 (≤40°C)       A       70       AC-4 (400V)       A       24         Rated operational power AC-3 (T≤55°C)       A       40       AC-4 (400V)       A       24         Rated operational power AC-3 (T≤55°C)       230V       kW       11       400V       kW       22         Gonov       kW       22       690V       kW       22       690V       kW       23         Rated operational power AC-1 (T≤40°C)       230V       kW       230V       kW       24       440V       48       35       75V				
Product type designation         BF40           Contact characteristics         Nr.         3           Rated insulation voltage UI IEC/EN         V         1000           Rated insulation voltage UI         KV         8           Operational frequency         min         Hz         25           max         Hz         400         1000           IEC Conventional free air thermal current Ith         A         70           Operational current le         AC-1 (sto*C)         A         60           AC-1 (sto*C)         A         60         AC-1 (sto*C)         A           AC-3 (st40V sto*C)         A         60         AC-4 (sto*C)         A         40           Rated operational power AC-3 (T≤55*C)         230V         kW         11         400V         kW         22           440V         kW         22         690V         kW         22         690V         kW         22           690V         kW         230V         kW         18.5         1000V         kW         22         690V         kW         22         690V         kW         26         400V         kW         26         400V         kW         26         400V         kW	Product designation			Power contactor
Contact characteristics         Nr.         3           Number of poles         Nr.         3           Rated insulation voltage Ui IEC/EN         V         1000           Rated insulation voltage Uimp         KV         8           Operational frequency         min         Hz         25           max         Hz         400         162           IEC Conventional free air thermal current Ith         A         70         0           Operational current Ie         AC-1 (≤40°C)         A         70           AC-1 (≤40°C)         A         50         AC-1 (≤40°C)         A         60           AC-1 (≤40°C)         A         50         AC-1 (≤40°C)         A         40           AC-3 (≤440V ≤55°C)         A         40         AC-4 (400°V)         A         24           Rated operational power AC-3 (T≤55°C)         230V         kW         11         4000         kW         22           690V         kW         22         500V         kW         22         500V         kW         22         500V         kW         26         400V         kW         26         400V         48         50         75         K         30         1000V	-			BF40
Number of polesNr.3Rated insulation voltage Ui IEC/ENV1000Rated insulation voltage Uimpk/V8Operational frequencyminHz25maxHz400IEC Conventional free air thermal current IthA70Operational current IeAC-1 (\$40°C)A70AC-1 (\$55°C)A60AC-1 (\$55°C)AAC-3 (\$4400V)A24Rated operational power AC-3 (T≤55°C)230VkW11400VkW18.5415VkW22440VkW22500VkW22690VkW22600VkW28690VkW26400VkW46500VkW26400VkW46690VkW26400VkW28690VkW28575IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series\$24VA485VA30110VA1EC max current le in DC1 with L/R ≤ 1ms with 2 poles in series\$24VA485VA48A4875VA484875VA45110VA42220VA5110VA120A48A4848484875VA48484875VA48110VA484848				
Rated impulse withstand voltage UimpkV8Operational frequencyminHz25maxHz400IEC Conventional frequencyA70Operational current leA70AC-1 (≤40°C)A60AC-1 (55°C)A60AC-3 (≤440V ≤55°C)A40AC-4 (400V)A24Rated 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)230VkWRated operational power AC-1 (T≤40°C)230VkWRated operational power AC-1 (T≤40°C)230VkWEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series≤24VA48VA3575VA220VA-IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series≤24VA48VA4875VA45110VA42220VA5IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series≤24VA48VA4875VA45110VA4875VA45110VA4875VA4875VA4875VA4875VA4875VA4875V <td< td=""><td>Number of poles</td><td></td><td>Nr.</td><td>3</td></td<>	Number of poles		Nr.	3
Rated impulse withstand voltage UimpkV8Operational frequencyminHz25maxHz400IEC Conventional frequencyA70Operational current leA70AC-1 (≤40°C)A60AC-1 (55°C)A60AC-3 (≤440V ≤55°C)A40AC-4 (400V)A24Rated 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)230VkWRated operational power AC-1 (T≤40°C)230VkWRated operational power AC-1 (T≤40°C)230VkWEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series≤24VA48VA3575VA220VA-IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series≤24VA48VA4875VA45110VA42220VA5IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series≤24VA48VA4875VA45110VA4875VA45110VA4875VA4875VA4875VA4875VA4875VA4875V <td< td=""><td>Rated insulation voltage Ui IEC/EN</td><td></td><td>V</td><td>1000</td></td<>	Rated insulation voltage Ui IEC/EN		V	1000
Operational frequency       min       Hz       25 max         IEC Conventional free air thermal current lth       A       70         Operational current le       AC-1 (≤40°C)       A       70         AC-1 (≤55°C)       A       60       AC-1 (≤55°C)       A       60         AC-1 (≤55°C)       A       40       AC-4 (400V)       A       24         Rated operational power AC-3 (T≤55°C)       230V       kW       11       400V       kW       18.5         415V       kW       22       500V       kW       22       690V       kW       30         Rated operational power AC-1 (T≤40°C)       230V       kW       22       690V       kW       22         690V       kW       22       690V       kW       28       690V       kW       28         Rated operational power AC-1 (T≤40°C)       230V       kW       26       400V       kW       48       500V       kW       26       400V       kW       48       50V       kW       79       5       524V       A       40       48V       A       35       75V       A       30       75V       A       35       75V       A       36       75V			kV	
min       Hz       25 max         Hz       400         EC Conventional free air thermal current lth       A       70         Operational current le       AC-1 (≤40°C)       A       70         AC-1 (≤55°C)       A       60       AC-1 (≤40°C)       A       50         AC-1 (≤40°C)       A       40       AC-1 (≤40°C)       A       40         AC-3 (≤440V ≤55°C)       A       40       AC-3 (≤440V ≤55°C)       A       40         Rated operational power AC-3 (T≤55°C)       230V       kW       11       4000V       kW       22         Solov       kW       22       500V       kW       22       500V       kW       22         Rated operational power AC-1 (T≤40°C)       230V       kW       26       400V       kW       26         Rated operational power AC-1 (T≤40°C)       230V       kW       26       400V       kW       26         Hz       48V       A       35       75V       A       30       110V       48         EC max current le in DC1 with L/R ≤ 1ms with 2 poles in series       524V       A       48       48V       A       48       75V       A       48       75V       A       <				
max         Hz         400           IEC Conventional free air thermal current lth         A         70           Operational current le         AC-1 (st0°C)         A         70           AC-1 (st5°C)         A         60         AC-1 (st6°C)         A         60           AC-1 (st7°C)         A         50         AC-3 (st40V st5°C)         A         40           AC-1 (st70°C)         A         50         AC-4 (400V)         A         24           Rated operational power AC-3 (T≤55°C)         230V         kW         11         400V         kW         22           Ad40V         kW         22         500V         kW         22         500V         kW         22           Beyov         kW         30         1000V         kW         28         690V         kW         30           Rated operational power AC-1 (T≤40°C)         230V         kW         26         400V         kW         46         500V         kW         28         690V         kW         48         690V         kW         58         690V         kW         58         690V         kW         58         75V         A         30         110V         A         42		min	Hz	25
IEC Conventional free air thermal current lthA70Operational current leAC-1 (≤40°C)A70AC-1 (≤55°C)A60AC-1 (≤70°C)A50AC-3 (≤4400V)S55°C)A40AC-4 (400V)A24Rated operational power AC-3 (T≤55°C)230VkW11400VkW18.5415VkW22500VkW22690VkW301000VkW18.58ted operational power AC-1 (T≤40°C)230VkW230VkW46500VkW26400VkW46500VkW58690VkW79IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series224VIEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series224VS220VA4848VA4875VA45110VA42220VA5IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series224VS24VA4848VA4848VA4848VA48		max	Hz	
Operational current le         AC-1 (≤40°C)         A         70           AC-1 (≤55°C)         A         60         AC-1 (≤55°C)         A         40           AC-3 (≤440V ≤55°C)         A         40         AC-4 (400V)         A         24           Rated operational power AC-3 (T≤55°C)         230V         kW         11         400V         kW         18.5           415V         kW         22         440V         kW         22         500V         kW         22           440V         kW         22         500V         kW         22         500V         kW         22           690V         kW         18.5         18.5         18.5         18.5           Rated operational power AC-1 (T≤40°C)         230V         kW         26         400V         kW         28           600V         kW         18.5         100V         kW         48         35         75V         A         30         110V         A         48         220V         A         -         110V         A         48         220V         A         48         48V         A         35         75V         A         30         110V         A         48	IEC Conventional free air thermal current Ith			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Operational current le			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	·	AC-1 (≤40°C)	А	70
$\begin{array}{ccccc} AC-1 (\leq 70^{\circ} C) & A & 50 \\ AC-3 (\leq 440V \leq 55^{\circ} C) & A & 40 \\ AC-4 (400V) & A & 24 \\ \hline \\ \begin{tabular}{lllllllllllllllllllllllllllllllllll$		. , ,		
AC-3 (≤440V ≤55°C)       A       40         AC-4 (400V)       A       24         Rated operational power AC-3 (T≤55°C)       230V       kW       11         400V       kW       18.5         415V       kW       22         400V       kW       22         690V       kW       22         690V       kW       30         1000V       kW       18.5         Rated operational power AC-1 (T≤40°C)       230V       kW       26         400V       kW       46       500V       kW       26         400V       kW       46       500V       kW       46         500V       kW       48       48       35       75V       A       30         11EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series       ≤24V       A       48       48       48       48       48       48       48       48       48       48       42       220V       A       48       48       48       48       48       42       220V       A       48       48       48       42       220V       A       48       42       220V       A       5       10				
AC-4 (400V)       A       24         Rated operational power AC-3 (T≤55°C)       230V       kW       11         400V       kW       18.5       415V       kW       22         415V       kW       22       440V       kW       22         500V       kW       22       500V       kW       22         690V       kW       22       500V       kW       22         690V       kW       22       500V       kW       22         690V       kW       30       1000V       kW       18.5         Rated operational power AC-1 (T≤40°C)       230V       kW       26       400V       kW       46         500V       kW       26       400V       kW       79       110         IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series       ≤24V       A       40       48V       A       30       110V       A       8       220V       A       -       110V       A       48       48V       A       48       75V       A       45       110V       A       42       220V       A       5       110V       A       42       220V       A       5       11				
Rated operational power AC-3 (T≤55°C)       230V       kW       11         400V       kW       18.5         415V       kW       22         440V       kW       22         500V       kW       22         690V       kW       30         1000V       kW       28         690V       kW       26         400V       kW       26         400V       kW       46         500V       kW       79         IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series       ≤24V       A       48         220V       A       –       110V       A       8         220V       A       48       48       75V       A       48         110V       A       48       75V       A       45       <		AC-4 (400V)		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Rated operational power AC-3 (T≤55°C)			
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		230V	kW	11
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		415V	kW	22
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		440V	kW	22
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		500V	kW	22
Rated operational power AC-1 (T≤40°C)230VkW26400VkW46500VkW58690VkW79IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series $\leq 24V$ A4048VA3575VA30110VA8220VA-IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series $\leq 24V$ A4848VA484875VA1EC max current le in DC1 with L/R ≤ 1ms with 2 poles in series $\leq 24V$ A48220VA45110VA42220VA5110VA421EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series $\leq 24V$ A4848VA484848V48VA484848V48VA484848V48VA484848V48VA484848V48VA484848V48VA4848VA48		690V	kW	30
$\begin{array}{c} 230 \lor  k \Downarrow  26 \\ 400 \lor  k \Downarrow  46 \\ 500 \lor  k \Downarrow  58 \\ 690 \lor  k \circlearrowright  79 \end{array}$ IEC max current le in DC1 with L/R < 1ms with 1 poles in series $\begin{array}{c} \leq 24 \lor  A  40 \\ 48 \lor  A  35 \\ 75 \lor  A  30 \\ 110 \lor  A  8 \\ 220 \lor  A  - \end{array}$ IEC max current le in DC1 with L/R < 1ms with 2 poles in series $\begin{array}{c} \leq 24 \lor  A  40 \\ 48 \lor  A  35 \\ 75 \lor  A  30 \\ 110 \lor  A  8 \\ 220 \lor  A  - \end{array}$ IEC max current le in DC1 with L/R < 1ms with 2 poles in series $\begin{array}{c} \leq 24 \lor  A  48 \\ 48 \lor  A  48 \\ 75 \lor  A  45 \\ 110 \lor  A  42 \\ 220 \lor  A  5 \end{array}$ IEC max current le in DC1 with L/R < 1ms with 3 poles in series $\begin{array}{c} \leq 24 \lor  A  48 \\ 48 \lor  A  48 \end{array}$		1000V	kW	18.5
$\begin{array}{c cccc} & 400 \lor & k \Downarrow & 46 \\ 500 \lor & k \And & 58 \\ 690 \lor & k \And & 79 \end{array}$ IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series $\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Rated operational power AC-1 (T≤40°C)			
$ \begin{array}{c cccc} & 500 \lor & k \lor & 58 \\ \hline 690 \lor & k \lor & 79 \end{array} \\ \hline \mbox{IEC max current le in DC1 with L/R \leq 1ms with 1 poles in series} & & & & & & & & \\ & \leq 24 \lor & A & 40 \\ & 48 \lor & A & 35 \\ & 75 \lor & A & 30 \\ & 110 \lor & A & 8 \\ & 220 \lor & A & - \end{array} \\ \hline \mbox{IEC max current le in DC1 with L/R \leq 1ms with 2 poles in series} & & & & \\ & \leq 24 \lor & A & 48 \\ & 48 \lor & A & 48 \\ & 48 \lor & A & 48 \\ & 75 \lor & A & 45 \\ & 110 \lor & A & 42 \\ & 220 \lor & A & 5 \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{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{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{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{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{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{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{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{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 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\$		230V	kW	26
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		400V	kW	46
IEC max current le in DC1 with L/R $\leq$ 1ms with 1 poles in series $\leq 24V$ A4048VA3575VA30110VA8220VA-IEC max current le in DC1 with L/R $\leq$ 1ms with 2 poles in series $\leq 24V$ A4848VA4875VA45110VA42220VA5IEC max current le in DC1 with L/R $\leq$ 1ms with 3 poles in series $\leq 24V$ A4848VA445110VA42220VA5IEC max current le in DC1 with L/R $\leq$ 1ms with 3 poles in series $\leq 24V$ A4848VA4848VA4848VA48		500V	kW	58
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		690V	kW	79
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		≤24V	А	40
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		48V	А	35
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		75V	А	30
IEC max current le in DC1 with L/R < 1ms with 2 poles in series		110V	А	8
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		220V	А	_
$\begin{array}{cccc} 48 \ensuremath{\vee} & A & 48 \\ 75 \ensuremath{\vee} & A & 45 \\ 110 \ensuremath{\vee} & A & 42 \\ 220 \ensuremath{\vee} & A & 42 \\ 220 \ensuremath{\vee} & A & 5 \end{array}$ IEC max current le in DC1 with L/R $\leq$ 1ms with 3 poles in series $\begin{array}{cccc} \leq 24 \ensuremath{\vee} & A & 48 \\ 48 \ensuremath{\vee} & A & 48 \end{array}$	IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
$\begin{array}{cccc} 75 \ensuremath{\vee} & A & 45 \\ 110 \ensuremath{\vee} & A & 42 \\ 220 \ensuremath{\vee} & A & 5 \end{array}$ IEC max current le in DC1 with L/R < 1ms with 3 poles in series $\begin{array}{cccc} \leq 24 \ensuremath{\vee} & A & 48 \\ 48 \ensuremath{\vee} & A & 48 \end{array}$		≤24V	А	48
$\begin{tabular}{ccc} 110V & A & 42\\ 220V & A & 5\\ \hline \end{tabular}$ IEC max current le in DC1 with L/R < 1ms with 3 poles in series $\begin{tabular}{ccc} \leq 24V & A & 48\\ 48V & A & 48\\ \hline \end{tabular}$		48V	А	48
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$			А	
IEC max current le in DC1 with L/R $\leq$ 1ms with 3 poles in series $\leq 24V$ A 48 48V A 48			А	
≤24V A 48 48V A 48		220V	А	5
48V A 48	IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
		≤24V	А	48
75V A 48			А	48
		75V	А	48

BF4000A230



### **BF4000A230** Three-pole contactor, IEC operating current le (AC3) = 40A, AC coil 50/60Hz, 230VAC

$ \begin{aligned} &\leq 24V & A & - \\ & 48V & A & - \\ & 75V & A & - \\ & 110V & A & - \\ & 220V & A & 70 \end{aligned} \\ \hline & & & & & & & & & & & & & & & & & &$				
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series         \$24V         A         -           76V         A         -         76V         A         -           76V         A         -         220V         A         -           110V         A         -         220V         A         70           IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series         \$24V         A         27         48V         A         23           75V         A         19         110V         A         3         220V         A         -           IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series         \$24V         A         32         48V         A         30         75V         A         27           IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series         \$24V         A         40         48V         A         40           48V         A         40         75V         A         22         22V         A         5           IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series         \$24V         A         40         75V         A         -           10V         A         27         220V         A <td></td> <td>110V</td> <td>А</td> <td>44</td>		110V	А	44
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		220V	А	56
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				-
$\begin{array}{c c c c c c c } 110V & A & -\\ 220V & A & 70 \\ \hline 420V & A & 23 \\ \hline 48V & A & 23 \\ \hline 75V & A & 19 \\ 110V & A & 3 \\ 220V & A & -\\ \hline \\ 220V & A & -\\ \hline \\ 110V & A & 32 \\ \hline \\ 220V & A & 27 \\ \hline \\ 110V & A & 22 \\ \hline \\ 220V & A & 5 \\ \hline \\ EC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series \\ \hline \\ 220V & A & 5 \\ \hline \\ EC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series \\ \hline \\ 220V & A & 5 \\ \hline \\ EC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series \\ \hline \\ 220V & A & 5 \\ \hline \\ EC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series \\ \hline \\ 220V & A & 32 \\ \hline \\ EC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series \\ \hline \\ 220V & A & 32 \\ \hline \\ EC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series \\ \hline \\ \\ \hline \\ 220V & A & 32 \\ \hline \\ \hline \\ EC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series \\ \hline \\ \\ \hline \\ \\ EC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series \\ \hline \\ \\ \hline \\ \\ \\ \hline \\ \\ \\ \hline \\ \\ \hline \\ \\ \\ \hline \\ \hline \\ \\ \hline \\ \\ \hline \\ \hline \\ \hline \\ \hline \\ \\ \hline \\ \hline \\ \hline \\ \hline \\ \\ \hline \\ \hline \\ \hline \\ \hline \\ \\ \hline \\ \hline \\ \hline \\ \hline \\ \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \\ \hline \hline \\ \hline$				-
220vA70IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series224VA2748VA2375VA19110VA3220VA-IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series $≤24V$ A32220VA27110VA22220VA527110VA22110VA22220VA5IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series $≤24V$ A4075VA27220VA32IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series $≤24V$ A4075VA32220VA32IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series $≤24V$ A-48VA4075VA32IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series $≤24V$ A-500VA27220VA32IEC max current for 10s (IEC/EN60947-1)A400-Protection fusegG (IEC)A50Making capacity (RMS value)A400-Breaking capacity (RMS value)mΩ0.8Prower dissipation per pole (average value)mΩ0.8Prower dissipation per pole (average value)mΩN4Prower dissipation per pole (average value)mΩ0.8 <tr< td=""><td></td><td></td><td></td><td></td></tr<>				
iEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series				
$ \begin{array}{c} \leq 24 \vee & A & 27 \\ 48 \vee & A & 23 \\ 75 \vee & A & 19 \\ 110 \vee & A & 3 \\ 220 \vee & A & - \end{array} \\ \hline \\ 110 \vee & A & 32 \\ 48 \vee & A & 30 \\ 75 \vee & A & 32 \\ 48 \vee & A & 30 \\ 75 \vee & A & 27 \\ 110 \vee & A & 22 \\ 220 \vee & A & 5 \end{array} \\ \hline \\$		220V	A	70
$ \begin{array}{cccc} 48 \ & A & 23 \\ 75 \ & A & 19 \\ 110 \ & A & 3 \\ 220 \ & A & - \end{array} \end{array} $	IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 1 poles in series	10 M /		07
$\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 $				
$\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 2 poles in series $\begin{array}{cccccccccccccccccccccccccccccccccccc$				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	IFC may aureant to in DC2 DC5 with L/D < 15ma with 2 nation in carios	2200	A	-
$ \begin{array}{cccc} 48V & A & 30 \\ 75V & A & 27 \\ 110V & A & 22 \\ 220V & A & 5 \end{array} \end{array} $ IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series $ \begin{array}{cccc} 224V & A & 40 \\ 48V & A & 40 \\ 75V & A & 38 \\ 110V & A & 27 \\ 220V & A & 32 \end{array} \end{array} $ IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series $ \begin{array}{ccccccccccccccccccccccccccccccccccc$	TEC max current le in DC3-DC5 with L/R S T5ms with 2 poles in series	<241	٨	22
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$				
$ \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 $\begin{array}{cccccccccccccccccccccccccccccccccccc$				
$\begin{aligned} & \leq 24V & A & 40 \\ & 48V & A & 40 \\ & 75V & A & 38 \\ & 110V & A & 27 \\ & 220V & A & 32 \end{aligned}$ $IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series \\ & \leq 24V & A & - \\ & 48V & A & - \\ & 48V & A & - \\ & 75V & A & - \\ & 110V & A & - \\ & 220V & A & 40 \end{aligned}$ Short-time allowable current for 10s (IEC/EN60947-1) & A & 400 \\ Protection fuse & & & & & & & & & & & & & & & & & & &	IEC may current le in DC3-DC5 with $1/P < 15ms$ with 3 poles in series	220 V	~	5
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	The max current le in Doo-Doo with Ent 3 Toms with 5 poles in series	<24\/	Δ	40
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				
$\begin{array}{c ccccc} 110 \lor & A & 27 \\ 220 \lor & A & 32 \\ \hline \\ 220 \lor & A & 32 \\ \hline \\ 220 \lor & A & 32 \\ \hline \\ 320 \lor & A & - \\ \\ 48 \lor & A & - \\ \\ 75 \lor & A & - \\ \\ 110 \lor & A & - \\ \\ 220 \lor & A & 40 \\ \hline \\ \hline \\ 80 \lor & - \\ 220 \lor & A & 40 \\ \hline \\ $				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
48V         A         -           75V         A         -           110V         A         -           220V         A         40           Short-time allowable current for 10s (IEC/EN60947-1)         A         400           Protection fuse         gG (IEC)         A         100           aM (IEC)         A         50         add (IEC)         A         400           Breaking capacity (RMS value)         A         400         add (IEC)         A         20           Breaking capacity at voltage         A         400         add (IEC)         A         20           Breaking capacity at voltage         A         400         add (IEC)         A         20           Breaking capacity at voltage         M         A         20         add (IEC)         A         20           Breaking capacity at voltage         M         A         20         add (IEC)         A         20           Breaking capacity at voltage         M         A         20         add (IEC)         A         20           Resistance per pole (average value)         m         M         3.9         AC3         W         1.3           Tightening torque for terminals		≤24V	А	_
$\begin{array}{c cccc} 110 \end{tabular} & A & - \\ 220 \end{tabular} & A & 40 \end{tabular} \\ \hline Short-time allowable current for 10s (IEC/EN60947-1) & A & 400 \end{tabular} \\ \hline Protection fuse & & & & \\ & gG (IEC) & A & 100 \\ aM (IEC) & A & 50 \end{tabular} \\ \hline Making capacity (RMS value) & A & 400 \end{tabular} \\ \hline Breaking capacity at voltage & & & & \\ & & & & & & \\ & & & & & & & $				_
220VA40Short-time allowable current for 10s (IEC/EN60947-1)A400Protection fusegG (IEC)A100aM (IEC)A50Making capacity (RMS value)A400Breaking capacity at voltage440VA320500VA265690VA256Resistance per pole (average value)mΩ0.8Power dissipation per pole (average value)IthW3.9AC3W1.3Tightening torque for terminalsminNm4maxNm5minlbin2.95Tightening torque for coil terminalminNm0.8		75V		_
Short-time allowable current for 10s (IEC/EN60947-1)       A       400         Protection fuse       gG (IEC)       A       100         aM (IEC)       A       50         Making capacity (RMS value)       A       400         Breaking capacity at voltage       440V       A       320         500V       A       265         690V       A       256         Resistance per pole (average value)       mΩ       0.8         Power dissipation per pole (average value)       Ith       W       3.9         AC3       W       1.3       1.3         Tightening torque for terminals       min       Nm       4         min       Ibin       2.95       max       Ibin       3.69         Tightening torque for coil terminal       min       Nm       0.8		110V	А	_
Protection fuse       gG (IEC)       A       100         aM (IEC)       A       50         Making capacity (RMS value)       A       400         Breaking capacity at voltage       440V       A       320         500V       A       265       690V       A       256         Resistance per pole (average value)       mΩ       0.8         Power dissipation per pole (average value)       Ith       W       3.9         AC3       W       1.3         Tightening torque for terminals       min       Nm       4         min       lbin       2.95         max       lbin       3.69		220V	А	40
gG (IEC) aM (IEC)A100 50Making capacity (RMS value)A400Breaking capacity at voltage440VA320 500V440VA320 500VA265 690V690VA256Resistance per pole (average value)mΩ0.8Power dissipation per pole (average value)IthW3.9 AC3Tightening torque for terminalsminNm4 maxTightening torque for certiminal	Short-time allowable current for 10s (IEC/EN60947-1)		А	400
aM (IEC)A50Making capacity (RMS value)A400Breaking capacity at voltage440VA320440VA265690VA265690VA256690VA256Resistance per pole (average value)mΩ0.80.8Power dissipation per pole (average value)IthW3.9AC3W1.31.31.3Tightening torque for terminalsminNm4maxNm5minIbin2.95maxIbin3.693.691.3Tightening torque for coil terminalminNm0.8	Protection fuse			
Making capacity (RMS value)       A       400         Breaking capacity at voltage       440V       A       320         500V       A       265       690V       A       256         Resistance per pole (average value)       mΩ       0.8       0.8         Power dissipation per pole (average value)       Ith       W       3.9         AC3       W       1.3       1.3         Tightening torque for terminals       min       Nm       4         min       Nm       5       min       Ibin       2.95         Tightening torque for coil terminal       min       Nm       5.99         Tightening torque for coil terminal       min       Nm       5.99		gG (IEC)	А	100
Breaking capacity at voltage 440V A 320 500V A 265 690V A 256 Resistance per pole (average value) Power dissipation per pole (average value) Ith W 3.9 AC3 W 1.3 Tightening torque for terminals min Nm 4 max Nm 5 min lbin 2.95 max lbin 3.69 Tightening torque for coil terminal min Nm 0.8		aM (IEC)	А	50
440V       A       320         500V       A       265         690V       A       256         Resistance per pole (average value)       mΩ       0.8         Power dissipation per pole (average value)       Ith       W       3.9         AC3       W       1.3         Tightening torque for terminals       min       Nm       4         max       Nm       5       min       Ibin       2.95         Tightening torque for coil terminal       min       Nm       0.8	Making capacity (RMS value)		А	400
500VA265690VA256Resistance per pole (average value)mΩ0.8Power dissipation per pole (average value)IthW3.9AC3W1.3Tightening torque for terminalsminNm4maxNm5minIbin2.95maxIbin3.693.69Tightening torque for coil terminalNm0.8	Breaking capacity at voltage			
690VA256Resistance per pole (average value)mΩ0.8Power dissipation per pole (average value)IthW3.9AC3W1.3Tightening torque for terminalsminNm4maxNm5minIbin2.95maxIbin3.69Tightening torque for coil terminalminNm0.8			А	
Resistance per pole (average value)       mΩ       0.8         Power dissipation per pole (average value)       Ith       W       3.9         AC3       W       1.3         Tightening torque for terminals       min       Nm       4         max       Nm       5       min       Ibin       2.95         Tightening torque for coil terminal       min       Nm       3.69         Tightening torque for coil terminal       min       Nm       0.8			А	
Power dissipation per pole (average value) Ith W 3.9 AC3 W 1.3 Tightening torque for terminals min Nm 4 max Nm 5 min Ibin 2.95 max Ibin 3.69 Tightening torque for coil terminal min Nm 0.8		690V		
Ith       W       3.9         AC3       W       1.3         Tightening torque for terminals       min       Nm       4         max       Nm       5       min       Ibin       2.95         max       Ibin       3.69       3.69         Tightening torque for coil terminal       min       Nm       0.8			mΩ	0.8
AC3       W       1.3         Tightening torque for terminals       min       Nm       4         max       Nm       5       min       Ibin       2.95         max       Ibin       3.69       3.69         Tightening torque for coil terminal       min       Nm       0.8	Power dissipation per pole (average value)			
Tightening torque for terminals min Nm 4 max Nm 5 min Ibin 2.95 max Ibin 3.69 Tightening torque for coil terminal min Nm 0.8				
min       Nm       4         max       Nm       5         min       Ibin       2.95         max       Ibin       3.69         Tightening torque for coil terminal       min       Nm       0.8		AC3	W	1.3
maxNm5minIbin2.95maxIbin3.69Tightening torque for coil terminalminNm0.8	Tightening torque for terminals			
min Ibin 2.95 max Ibin 3.69 Tightening torque for coil terminal min Nm 0.8				
max       lbin       3.69         Tightening torque for coil terminal       min       Nm       0.8				
Tightening torque for coil terminal min Nm 0.8				
min Nm 0.8		max	lbin	3.69
	Lightening torque for coil terminal			
max Nm 1				
		max	Nm	1

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		min	Ibio	0.8
		min max	lbin Ibin	0.8 0.74
Max number of wires	simultaneously connectable	Шах	Nr.	2
Conductor section				
	AWG/Kcmil			
		max		2
	Flexible w/o lug conductor section			
		min	mm²	1.5
		max	mm²	35
	Flexible c/w lug conductor section			
		min	mm²	1.5
Device to main all a sets of		max	mm²	35
Power terminal protect	ction according to IEC/EN 60529			IP20 front
Operating position				
Operating position		normal		Vertical plan
		allowable		$\pm 30^{\circ}$
		allowable		Screw / DIN rail
Fixing				35mm
Weight			g	1020
Conductor section				
	AWG/kcmil conductor section			
		max		2
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1500000
Safety related data				
Performance level B1	10d according to EN/ISO 13489-1	ار م ما ار مغرب		4500000
		rated load mechanical load	cycles	1500000
Mirror contate accordi	ing to IEC/EN 609474-4-1	mechanical load	cycles	1500000
EMC compatibility				yes yes
AC coil operating				yes
Rated AC voltage at 5	50/60Hz		V	230
AC operating voltage			•	200
ie operanig renage	of 50/60Hz coil powered at 50Hz			
	, pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	85
	J	max	%Us	110
	drop-out		0/11-	40
		min	%Us	40 55
	umption at 20°C	max	%Us	55
AC average coil cons				
	of 50/60Hz coil powered at 50Hz	in-rush	VA	210
		holding	VA VA	15



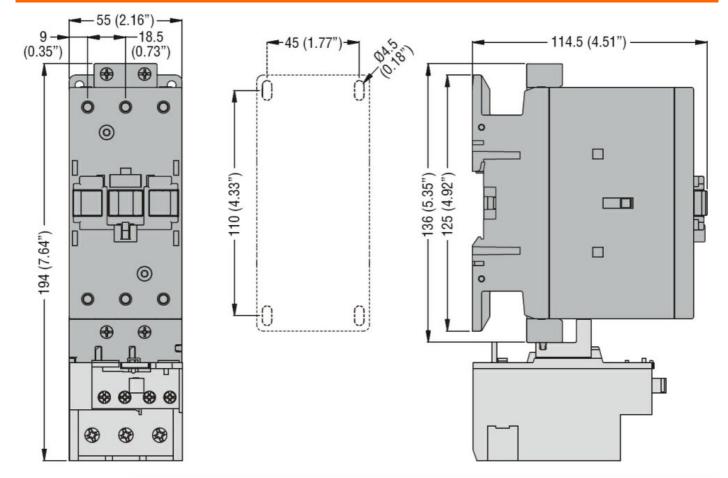
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	195
		holding	VA	13
	of 60Hz coil powered at 60Hz			
		in-rush	VA	210
		holding	VA	15
Dissipation at holding	≤20°C 50Hz	<u></u>	W	5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times			<b>.</b> ,	
Average time for Us c	ontrol			
in enage and let ee e	in AC			
	Closing NO			
		min	ms	12
		max	ms	28
	Opening NO	max	mo	20
		min	ms	8
		max	ms	22
UL technical data			1113	
	) for three-phase AC motor			
		at 480V	А	40
		at 400V	A	32
Yielded mechanical pe	erformance	at 000 v	Λ	52
neided mechanical pe	for single-phase AC motor			
	tor single-phase AC motor	110/120V	HP	3
		230V	HP	5 7.5
	for three phase AC motor	2307	ΠF	7.5
	for three-phase AC motor	200/2001/	ЦΒ	10
		200/208V	HP	10
		220/230V	HP	15
		460/480V	HP	30
0		575/600V	HP	30
General USE	Quality			
	Contactor	10		70
0	(	AC current	A	70
Short-circuit protection				
	High fault			100
		Short circuit current	kA	100
		Fuse rating	А	150
		Fuse class		J
	Standard fault	Object of the life of		r
		Short circuit current	kA	5
		Fuse rating	А	150 DK5
A 1 1		Fuse class		RK5
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protecti	on			
Pollution degree				3

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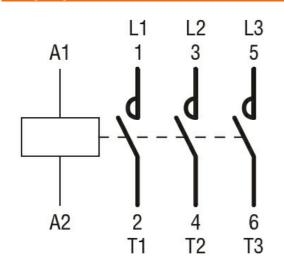
The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



Dimensions



#### Wiring diagrams



### Certifications and compliance

# Compliance

CSA C22.2 n° 60947-1		
CSA C22.2 n° 60947-4-1		
IEC/EN 60947-1		
IEC/EN 60947-4-1		
UL 60947-1		
UL 60947-4-1		

Certificates

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## CCC

	cULus	
ETIM classification	on	
		EC000066 -
ETIM 8.0	Power contactor,	
		AC switching