



Product designation Power contractor Product type designation BF195 Operational frequency Number of poles N. 3 Rated insulation voltage UIIEC/EN V 1000 Rated insulation voltage UIIEC/EN V 8 Operational frequency min Hz 25 max Hz 400 1000 IEC Conventional free air thermal current Ith A 275 Operational current le AC-1 (\$40°C) A 230 AC-3 (\$440V \$55°C) A 230 AC-4 (400V) A 95 Rated operational power AC-3 (T≤55°C) 230V kW 100 440V kW 10 4400V kW 100 500V kW 10 500V kW 10 500V kW 100 500V kW 10 400V 195 400V 415V 1000V 416V 1000V 125 100V 100V 125 100V 120 440V 195 440V<				SE T
Contact characteristicsNumber of polesNr.3Rated insultan voltage UI IEC/ENV1000Rated insultan voltage UI IEC/ENV8Operational frequencyminHz25maxHz400125IEC Conventional frequencyA275Operational current leA275Operational current leAC-1 (\$40°C)A275AC-1 (\$40°C)A230AC-1 (\$70°C)A200AC-1 (\$40°C)A200AC-3 (\$440V \$55°C)A195Act (\$400V)A95954000kW90Rated operational power AC-3 (T≤55°C)230VkW554000kW1104400kW110440VkW110500VkW132690VkW1601000VkW195415VA195415VA195440VA195500VA195415VA195500VA185500VA185Rated operational power AC-1 (T≤40°C)230VkW104400V400VkW199690VKW1321EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series524VA27575VA275110VA120220VA-1EC max current le in DC1 with L/R ≤ 1ms with 2 poles in series524VA275110VA120220VA-<	Product designation			Power contactor
Number of polesNr.3Rated insulation voltage UirpKV8Operational frequencyminHz25maxHz4001000IEC Conventional free air thermal current lthA275Operational current leAC-1 (≤40°C)A275AC-1 (≤55°C)A230AC-1 (≤70°C)AAC-3 (≤400V)A9595Rated operational power AC-3 (T≤55°C)230VKW55400VKW90415VKW110415VKW110500VKW132690VKW100500VKW132690VKW1951000V415V195Acted operational current AC-3 (T≤55°C)230VA195416VA195500VA195416VA195500VA195416VA195500VA184690VKW100VA195416VA195500VA184690VKW104690VA1551000VKW181500VKW104690VKW181500VKW198690VKW181500VKW198690VKW181500VKW104690VKW181500VKW1201EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series224V <td< td=""><td>Product type designation</td><td></td><td></td><td>BF195</td></td<>	Product type designation			BF195
Rated insulation voltage U IEC/EN V 1000 Rated impulse withstand voltage Uimp kV 8 Operational frequency min Hz 25 max Hz 400 125 IEC conventional free air thermal current Ith A 275 Operational current le AC-1 (stor°C) A 275 AC-1 (stor°C) A 230 AC-1 (stor°C) A 200 AC-3 (st40V \$55°C) A 230 AC-4 (400V) A 95 Rated operational power AC-3 (T≤55°C) 230V kW 55 400V kW 10 4400V kW 100 500V kW 10 500V kW 10 440V kW 10 500V kW 10 500V kW 10 440V kW 100 500V kW 10 100 15 440V kW 100 500V A 195 440V 195 440V 195	Contact characteristics			
Rated insulation voltage U IEC/EN V 1000 Rated inpulse withstand voltage Uimp kV 8 Operational frequency min Hz 25 max Hz 400 16C IEC conventional free air thermal current Ith A 275 Operational current le AC-1 (≤40°C) A 275 AC-1 (≤55°C) A 230 AC-1 (≤40°C) A 295 AC-1 (≤40°C) A 275 AC-1 (≤55°C) A 230 AC-3 (≤440∨ ≤55°C) A 195 AC-4 (400∨) A 95 Rated operational power AC-3 (T≤55°C) 230∨ kW 55 400∨ kW 10 440∨ kW 110 440∨ kW 110 50∨ kW 132 690∨ kW 160 1000∨ kW 195 440∨ 440∨ 195 440∨ 195 440∨ 195 440∨ 195 440∨ 195 440∨ 195 50∨ 184 690∨	Number of poles		Nr.	3
Rated impulse withstand voltage Uimp kV 8 Operational frequency min Hz 25 max Hz 400 1EC Conventional free air thermal current lth A 275 Operational current le AC-1 (≤40°C) A 275 AC-1 (≤55°C) A 230 AC-1 (≤55°C) A 295 Rated operational power AC-3 (T≤55°C) 230V kW 55 400V kW 195 AC-4 (400V) A 95 8 680V kW 110 440V kW 110 440V kW 110 440V kW 110 500V kW 180 1000V kW 90 90 8 155 400V A 195 400V 195 440V kW 195 440V 195 440V A 195 500V A 185 500V A 184 690V 690V 165 1000V A 85 500V A 185				
Operational frequency min Hz 25 max HZ 400 IEC Conventional free air thermal current lth A 275 Operational current le AC-1 (≤40°C) A 275 AC-1 (≤55°C) A 230 AC-1 (≤55°C) A 230 AC-3 (≤440V ≤55°C) A 195 AC-4 (400V) A 95 Rated operational power AC-3 (T≤55°C) 230V kW 55 400V kW 100 440V kW 110 500V kW 160 1000V kW 90 Rated operational current AC-3 (T≤55°C) 230V KW 160 1000V kW 90 Rated operational current AC-3 (T≤55°C) 230V A 195 440V A 195 400V kW 184 680V A 195 500V A 184 690V A 185 500V A 184 690V A 185 1000V A			kV	
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max Hz 400 IEC Conventional free air thermal current lth A 275 Operational current le AC-1 (≤40°C) A 275 AC-1 (≤57°C) A 200 AC-1 (≤40°C) A 275 AC-1 (≤57°C) A 200 AC-3 (≤57°C) A 195 AC-4 (400V) A 95 S 400V kW 90 Rated operational power AC-3 (T≤55°C) 230V kW 55 400V kW 90 Rated operational current AC-3 (T≤55°C) 230V kW 110 500V kW 132 G90V kW 110 500V kW 132 690V kW 160 1000V KW 90 Rated operational current AC-3 (T≤55°C) 230V A 195 4400V A 195 150V A 195 4400V A 195 1000V A 184 690V KW 165 1000V A		min	Hz	25
LEC Conventional free air thermal current lth A 275 Operational current le AC-1 (≤40°C) A 275 AC-1 (≤55°C) A 230 AC-1 (≤55°C) A 230 AC-1 (≤55°C) A 195 AC-1 (≤55°C) A 95 Rated operational power AC-3 (T≤55°C) 230V kW 55 400V kW 90 415V kW 110 440V kW 110 500V kW 132 690V kW 160 1000V kW 90 415V kW 132 690V kW 160 1000V kW 90 Rated operational current AC-3 (T≤55°C) 230V A 195 440V A 195 440V A 195 415V A 195 440V A 195 500V A 184 690V A 165 1000V A 85 230V kW 104 </td <td></td> <td></td> <td></td> <td></td>				
Operational current le AC-1 (≤40°C) A 275 AC-1 (≤55°C) A 230 AC-1 (≤70°C) A 200 AC-3 (≤440V ≤55°C) A 195 AC-4 (400V) A 95 Rated operational power AC-3 (T≤55°C) 230V kW 55 400V kW 100 440V kW 110 440V kW 110 500V kW 160 500V kW 100 500V kW 195 415V KW 195 440V 415V 4195 400V KW 195 440V 4195 440V 4195 440V KW 195 440V 4195 440V 4195 415V A 195 440V A 195 415V A 195 440V A 195 415V A 195 500V A 184 690V A 165<	IEC Conventional free air thermal current Ith	Пал		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				210
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		۵C-1 (۵°C)</td <td>Δ</td> <td>275</td>	Δ	275
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AC-3 (s440V ≤55°C) A 195 Rated operational power AC-3 (T≤55°C) 230V kW 55 400V kW 90 415V kW 110 500V kW 132 690V kW 160 1000V kW 90 Rated operational current AC-3 (T≤55°C) 230V kW 160 1000V kW 90 415V kW 110 500V kW 160 1000V kW 90 Rated operational current AC-3 (T≤55°C) 230V A 195 415V A 195 416V A 195 416V A 195 500V A 165 1000V A 165 1000V A 85 Rated operational power AC-1 (T≤40°C) 230V kW 104 400V KW 181 500V kW 199 690V KW 181 500V kW 199 690V KW 181 500V KW 120 <td></td> <td></td> <td></td> <td></td>				
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Rated operational power AC-3 (T≤55°C) 230V kW 55 400V kW 90 415V kW 110 440V kW 110 500V kW 132 690V kW 160 1000V kW 90 Rated operational current AC-3 (T≤55°C) 230V A 195 400V A 195 440V A 195 400V A 195 500V A 195 440V A 195 500V A 195 440V A 195 500V A 184 690V A 165 1000V A 85 Rated operational power AC-1 (T≤40°C) 230V kW 104 400V kW 181 500V kW 181 500V kW 192 690V kW 312 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series 524V A 275 48V A 275 10V A 120 220V<				
$\begin{array}{c} 230V kW 55 \\ 400V kW 90 \\ 415V kW 110 \\ 440V kW 110 \\ 500V kW 132 \\ 690V kW 132 \\ 690V kW 160 \\ 1000V kW 90 \end{array}$ Rated operational current AC-3 (T≤55°C) $\begin{array}{c} 230V A 195 \\ 400V A 195 \\ 440V A 195 \\ 440V A 195 \\ 500V A 184 \\ 690V A 165 \\ 1000V A 85 \end{array}$ Rated operational power AC-1 (T≤40°C) $\begin{array}{c} 230V kW 104 \\ 400V kW 104 \\ 400V kW 110 \\ 500V kW 110 \\ 690V kW 112 \\ 500V kW 112 \\ 100V A 85 \end{array}$ Rated operational power AC-1 (T≤40°C) $\begin{array}{c} 230V kW 104 \\ 400V kW 181 \\ 500V kW 112 \\ 12V A 275 \\ 75V A 275 \\ 110V A 120 \\ 22V A - \end{array}$ IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	Deted exerctional networ AC 2 (T <e5°c)< td=""><td>AC-4 (400V)</td><td>A</td><td>95</td></e5°c)<>	AC-4 (400V)	A	95
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Raled operational power AC-3 (TS55 C)	2201/	1.1.1/	FF
$ \begin{array}{c} 415 \vee & k W & 110 \\ 440 \vee & k W & 110 \\ 500 \vee & k W & 132 \\ 690 \vee & k W & 160 \\ 1000 \vee & k W & 90 \\ \hline \\ \mbox{Rated operational current AC-3 (T \le 55 ^{\circ} C) \\ \hline \\ \mbox{Rated operational current AC-3 (T \le 55 ^{\circ} C) \\ \hline \\ \mbox{Rated operational current AC-3 (T \le 55 ^{\circ} C) \\ \hline \\ \mbox{Rated operational current AC-3 (T \le 55 ^{\circ} C) \\ \hline \\ \mbox{Rated operational power AC-1 (T \le 55 ^{\circ} C) \\ \hline \\ \mbox{Rated operational power AC-1 (T \le 40 ^{\circ} C) \\ \hline \\ \mbox{Rated operational power AC-1 (T \le 40 ^{\circ} C) \\ \hline \\ \mbox{Rated operational power AC-1 (T \le 40 ^{\circ} C) \\ \hline \\ \mbox{Rated operational power AC-1 (T \le 40 ^{\circ} C) \\ \hline \\ \mbox{Rated operational power AC-1 (T \le 40 ^{\circ} C) \\ \hline \\ \mbox{Rated operational power AC-1 (T \le 40 ^{\circ} C) \\ \hline \\ \mbox{Rated operational power AC-1 (T \le 40 ^{\circ} C) \\ \hline \\ \mbox{Rated operational power AC-1 (T \le 40 ^{\circ} C) \\ \hline \\ \mbox{Rated operational power AC-1 (T \le 40 ^{\circ} C) \\ \hline \\ \mbox{Rated operational power AC-1 (T \le 40 ^{\circ} C) \\ \hline \\ \mbox{Rated operational power AC-1 (T \le 40 ^{\circ} C) \\ \hline \\ \mbox{Rated operational power AC-1 (T \le 40 ^{\circ} C) \\ \hline \\ \mbox{Rated operational power AC-1 (T \le 40 ^{\circ} C) \\ \hline \\ \mbox{Rated operational power AC-1 (T \le 40 ^{\circ} C) \\ \hline \\ \mbox{Rated operational power AC-1 (T \le 40 ^{\circ} C) \\ \hline \\ \mbox{Rated operational power AC-1 (T \le 40 ^{\circ} C) \\ \hline \\ \mbox{Rated operational power AC-1 (T \le 40 ^{\circ} C) \\ \hline \\ \mbox{Rated operational power AC-1 (T \le 40 ^{\circ} C) \\ \hline \\ \mbox{Rated operational power AC-1 (T \le 40 ^{\circ} C) \\ \hline \\ \mbox{Rated operational power AC-1 (T \le 40 ^{\circ} C) \\ \hline \\ \mbox{Rated operational power AC-1 (T \le 40 ^{\circ} C) \\ \hline \\ \mbox{Rated operational power AC-1 (T \le 40 ^{\circ} C) \\ \hline \\ \mbox{Rated operational power AC-1 (T \le 40 ^{\circ} C) \\ \hline \\ \mbox{Rated operational power AC-1 (T \le 40 ^{\circ} C) \\ \hline \\ \mbox{Rated operational power AC-1 (T \le 40 ^{\circ} C) \\ \hline \\ \mbox{Rated operational power AC-1 (T \le 40 ^{\circ} C) \\ \hline \\ \mbox{Rated operational power AC-1 (T \le 40 ^{\circ} C) \\ \hline \\ \mbox{Rated operational power AC-1 (T \le 40 ^{\circ} C) \\ \hline \\ Rated operational power AC-1 (T \le 40 ^{$				
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1000V kW 90 Rated operational current AC-3 (T≤55°C) 230V A 195 400V A 195 415V A 195 415V A 195 440V A 195 500V A 184 690V A 165 1000V A 85 Rated operational power AC-1 (T≤40°C) 230V kW 104 400V kW 181 500V kW 199 690V kW 181 500V kW 199 690V kW 192 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V A 275 75V A 275 110V A 120 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series -				
230V A 195 400V A 195 415V A 195 440V A 195 500V A 184 690V A 165 1000V A 85 Rated operational power AC-1 (T≤40°C) 230V kW 104 400V kW 181 500V KW 104 400V kW 181 500V kW 199 690V kW 12 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series \$24V A 275 48V A 275 75V A 275 110V A 120 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		1000V	KVV	90
$ \begin{array}{ccccc} 400 & A & 195 \\ 415 & A & 195 \\ 440 & A & 195 \\ 500 & A & 184 \\ 690 & A & 165 \\ 1000 & A & 85 \end{array} \\ \hline \\$	Rated operational current AC-3 (1≤55°C)		_	
$ \begin{array}{ccccc} 415 & A & 195 \\ 440 & A & 195 \\ 500 & A & 184 \\ 690 & A & 165 \\ 1000 & A & 85 \end{array} \\ \hline \\$				
$ \begin{array}{c c c c c c c } & 440 & A & 195 \\ & 500 & A & 184 \\ & 690 & A & 165 \\ & 1000 & A & 85 \\ \hline \end{array} \\ \hline \bigg $ \\ \hline \\ \hline \rule \\ \hline \end{array} \\ \hline \end{array} \\ \hline \bigg \\ \hline \rule \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \bigg \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \bigg \\ \hline \bigg \\ \hline \rule \\ \hline \end{array} \\ \hline \end{array} \\ \hline \\ \hline \Biggr \\ \hline \\ \hline \rule \\ \hline \end{array} \\ \hline \\ \\ \\ \hline \\ \hline \\ \\ \\ \hline \\ \hline \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\				
$ \begin{array}{c ccccc} 500 & A & 184 \\ 690 & A & 165 \\ 1000 & A & 85 \end{array} \\ \hline \begin{tabular}{lllllllllllllllllllllllllllllllllll$				
$\begin{tabular}{ c c c c } \hline & & & & & & & & & & & & & & & & & & $				
$\begin{tabular}{ c c c c } \hline 1000V & A & 85 \\ \hline Rated operational power AC-1 (T\leq40^{\circ}C) & & & & & & & & & & & & & & & & & & &$				
Rated operational power AC-1 (T≤40°C)230VkW104400VkW181500VkW199690VkW312IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series $\leq 24V$ A27548VA27575VA275110VA120220VA-IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		1000V	A	85
$ \begin{array}{c cccc} 400 V & kW & 181 \\ 500 V & kW & 199 \\ 690 V & kW & 312 \end{array} \\ \hline \mbox{IEC max current le in DC1 with L/R \leq 1ms with 1 poles in series} \\ & \leq 24 V & A & 275 \\ 48 V & A & 275 \\ 75 V & A & 275 \\ 110 V & A & 120 \\ 220 V & A & - \end{array} \\ \hline \mbox{IEC max current le in DC1 with L/R \leq 1ms with 2 poles in series} \end{array} $	Rated operational power AC-1 (T≤40°C)			
$ \begin{array}{c c} 500 V & kW & 199 \\ 690 V & kW & 312 \end{array} \\ \hline \mbox{IEC max current le in DC1 with L/R \le 1ms with 1 poles in series} \\ & \le 24 V & A & 275 \\ 48 V & A & 275 \\ 75 V & A & 275 \\ 75 V & A & 275 \\ 110 V & A & 120 \\ 220 V & A & - \end{array} \\ \hline \mbox{IEC max current le in DC1 with L/R \le 1ms with 2 poles in series} } \\ \end{array} $				
690VkW312IEC max current le in DC1 with L/R < 1ms with 1 poles in series				
IEC max current le in DC1 with L/R \leq 1ms with 1 poles in series $\leq 24V$ A27548VA27575VA275110VA120220VA-				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		690V	kW	312
48V A 275 75V A 275 110V A 120 220V A -	IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series			
$\begin{array}{cccc} 75 \mbox{V} & \mbox{A} & 275 \\ 110 \mbox{V} & \mbox{A} & 120 \\ 220 \mbox{V} & \mbox{A} & - \end{array}$ IEC max current le in DC1 with L/R < 1ms with 2 poles in series		≤24V	А	275
$\begin{tabular}{ccc} 110V & A & 120 \\ 220V & A & - \end{tabular} \end{tabular}$ IEC max current le in DC1 with L/R < 1ms with 2 poles in series			А	
220VA $-$ IEC max current le in DC1 with L/R < 1ms with 2 poles in series			А	
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series		110V	А	120
		220V	Α	_
≤24V A 275	IEC max current le in DC1 with $L/R \le 1ms$ with 2 poles in series			
		≤24V	А	275



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 195A, AC/DC COIL, 24...60VAC - 20...60VDC

	48V	А	275
	75V	А	275
	110V	А	170
	220V	А	150
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	А	275
	48V	А	275
	75V	А	275
	110V	А	170
	220V	А	150
	330V	Α	150
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	≤24V	А	275
	48V	А	275
	75V	А	275
	110V	А	275
	220V	А	275
IEC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series			
	≤24V	А	275
	48V	А	275
	75V	А	180
	110V	А	90
	220V	А	-
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series			
	≤24V	A	275
	48V	Α	275
	75V	Α	180
	110V	A	140
	220V	A	100
IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series	(0.1) (075
	≤24V	A	275
	48V	A	275
	75V	A	180
	110V	A	160
	220V	A	140
IFC may summat to in DC2 DC5 with 1/D < 45 ms with 4 mstas in series	330V	A	100
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series	<241	۸	076
	≤24V 48V	A A	275 275
	48V 75V		180
	75V 110V	A A	160
	220V	A	160
	330V	A	160
	460V	A	100
Short-time allowable current for 10s (IEC/EN60947-1)	-00 v	A	1560
Protection fuse		7	1000
	gG (IEC)	А	315
	aM (IEC)	A	250
Making capacity (RMS value)		A	1658
Breaking capacity at voltage			1000
	440V	А	1658
	500V	A	1326
	690V	A	1377
Resistance per pole (average value)	0001	mΩ	0.18
		11124	0.10



AC-3 W 6.1 Tightening torque for terminals min Nm 18 max Nm 18 max Nm 18 max Nm 18 max Nm 11 min Nm 0.6 max Nm 11 Power terminal protection according to IEC/EN 60529 Machanical features Operating position Operating position Tring Correct String Weight g 30 Operations Mechanical life cycles 10 Electrical life cycles 10 EAR of 50/60Hz coil powered at 50Hz pick-up min V 24 Max V 60 AC operating voltage of 50/60Hz coil powered at 50Hz pick-up min %US 80 max %US 11 drop-out max %US 57 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz pick-up min %US 80 max %US 57 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz pick-up min %US 80 max %US 57 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 16 holding VA 1.5 of 50/60Hz coil powered at 60Hz					
Ith W 13 AC-3 W 6.1 Tightening torque for terminals min Nm 18 min Ibin 15 Tightening torque for coil terminal min Nm 18 Tightening torque for coil terminal min Nm 10 Power terminal protection according to IEC/EN 60529 max Nm 1 Power terminal protection according to IEC/EN 60529 max Nm 1 Power terminal protection according to IEC/EN 60529 min Nm 1 Power terminal protection according to IEC/EN 60529 min Ve 3 Operating position normal Ve 4 Rechanical features g 30 Operations g 30 Weight g 30 Operations g 30 Performance level B10d according to EN/ISO 13489-1 rated load Performance level B10d according to EN/ISO 13489-1 rated AC voltage at 50/60Hz, 60Hz ENC compatibility ye ye AC ool operating max V AC ool operating of 50/60Hz coil powered at 50Hz min pick-up min %Us s7 of 50/60Hz coil powered at 5	Power dissipation per p	age value)			
Tightening torque for terminals min Nm 18 max Nm 18 min Ibin 15 Tightening torque for coil terminal min Nm 18 Power terminal protection according to IEC/EN 60529 IPI Machanical features IPI Operating position normal Ve allowable 43 Fixing g 30 Operatings Sc Weight g 30 Operatings Sc Weight g 30 Operatings Sc Weight g 30 Operatings Sc Machanical life cycles 10 Excirct 10 Excirct 10 Excirctal life cycles 10 Sc 10 EMC compatibility yet rated load cycles 10 AC coll operating rated AC voltage at 50/60Hz, 60Hz max %Us 57 AC operating voltage of 50/60Hz coil powered at 50Hz max %Us 57 AC average coi			lth	W	13
min Nm 18 max Nm 18 max lbin 15 max lbin 1			AC-3	W	6.7
min Nm 18 max Nm 18 max lbin 15 Trightening torque for coil terminal min lbin 15 max Nm 1 Power terminal protection according to IEC/EN 60529 Wechanical features Operating position Performance leave according to IEC/EN 60529 Weight g 30 Operations Wechanical life cycles 10 Electrical life cycles 10 EAC compatibility ye AC coli operating Rated AC voltage at 50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up min %Us 80 max %Us 11 drop-out max %Us 57 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz pick-up min %Us 60 max %Us 57 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz pick-up Min %Us 67 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz pick-up Min %Us 67 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz pick-up Min %Us 67 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz pick-up Min %Us 67 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz pick-up Min %Us 60 max %Us 57 AC average coil consumption at 20°C of 50/60Hz coil powered at 60Hz jof 60Hz coil powered at 60Hz	Tightening torgue for ter				
max Nm 18 min Nin 10in 15 Tightening torque for coil terminal min Nm 0.0 max Nm 1 1 Power terminal protection according to IEC/EN 60529 IPH Mechanical features normal Ve Operating position normal Ve allowable ±33 30 Operations g 30 Mechanical life cycles 10 Electrical life cycles 10 Electrical life cycles 10 EMC compatibility ye AC AC coll operating rated load cycles 10 EMC contracting voltage of 50/60Hz coil powered at 50Hz min V 24 AC operating voltage of 50/60Hz coil powered at 60Hz min %Us 80 min %Us 80 max %Us 80 max %Us 80 max %Us 80 max %Us 80 max %Us 80 77	5 5 1		min	Nm	18
min Ibin 15 Tightening torque for coil terminal min Nm 0.6 max Nm 1 Power terminal protection according to IEC/EN 60529 IP Mechanical features morrmal Ve Operating position normal Ve Mechanical fife cycles 10 Operating g 30 30 String Sc Sc 30 Operating g 30 30 String Sc Sc 30 Operatins g 30 30 Stefy related data cycles 10 Electrical life cycles 10 ECC compatibility ye ye AC coll operating max V Rated AC voltage at 50/60Hz, 60Hz min V 24 drop-out max %Us 80 max %Us 80 max %Us 81 drop-out max %Us 80 max %Us 81 drop-out <td></td> <td></td> <td></td> <td></td> <td></td>					
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drop-out <u>max %Us ≤7</u> AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz <u>in-rush VA 16</u> holding VA 1.5 of 50/60Hz coil powered at 60Hz <u>in-rush VA 16</u> holding VA 1.5 of 60Hz coil powered at 60Hz					80 Us min
max %Us ≤7 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 16 holding VA 1.5 of 50/60Hz coil powered at 60Hz in-rush VA 16 holding VA 1.5 of 50/60Hz coil powered at 60Hz in-rush VA 16 holding VA 1.5 of 60Hz coil powered at 60Hz in-rush VA 1.5			max	%Us	110 Us max
AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 16 holding VA 1.5 of 50/60Hz coil powered at 60Hz in-rush VA 16 holding VA 1.5 of 60Hz coil powered at 60Hz		drop-out			
of 50/60Hz coil powered at 50Hz in-rush VA 16 holding VA 1.5 of 50/60Hz coil powered at 60Hz in-rush VA 16 holding VA 1.5 of 60Hz coil powered at 60Hz			max	%Us	≤70 Us min
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of 50/60Hz coil powered at 60Hz in-rush VA 16 holding VA 1.5 of 60Hz coil powered at 60Hz			in-rush	VA	160230
of 50/60Hz coil powered at 60Hz in-rush VA 16 holding VA 1.5 of 60Hz coil powered at 60Hz			holding	VA	1.53.0
in-rush VA 16 holding VA 1.5 of 60Hz coil powered at 60Hz		Hz coil powered at 60Hz			
holding VA 1.5 of 60Hz coil powered at 60Hz			in-rush	VA	160230
of 60Hz coil powered at 60Hz					1.53.0
		coil powered at 60Hz			
11-10-50 VA 10			in_ruch	\/Δ	160230
					1.53.0
·	Dissipation at k-L-line at		noiding		1.53.0

BF19500E024



24...60VAC - 20...60VDC

DC coil operating					
DC rated control voltage	je				
	<u>,</u>		min	V	20
			max	V	60
DC operating voltage					
	pick-up				
			min	%Us	85 Us min
			max	%Us	110 Us max
	drop-out				
<u></u>	tian <00%0		max	%Us	≤70 Us min
Average coil consump	tion $\leq 20^{\circ}$ C		in ruch	۱۸/	160 220
			in-rush holding	W W	160230 1.53.0
Max cycles frequency			Tolding	VV	1.55.0
Mechanical operation				cycles/h	1000
Operating times				0)0100,11	
Average time for Us co	ontrol				
-	in AC				
		Closing NO			
			min	ms	50
			max	ms	100
		Opening NO			
			min	ms	35
UL technical data			max	ms	75
Vielded mechanical pe	orformance				
neided mechanical pe	for three-phase AC mo	otor			
	ior unce-phase AC III		200/208V	HP	60
			220/230V	HP	75
			460/480V	HP	150
			575/600V	HP	150
General USE					
	Contactor				
			AC current	A	275
Short-circuit protection					
	High fault		01.0.1		100
			Short circuit current	kA	100
			Fuse rating Fuse class	A	400 J
	Standard fault		ruse class		J
	Januaru laul		Short circuit current	kA	10
			Fuse rating	A	400
			Fuse class		RK5
Ambient conditions					
Temperature					
	Operating temperature)			
			min	°C	-40
			max	°C	70
	Storage temperature			•••	50
			min	°C °C	-50
Max altitude			max	°C	80 3000
Resistance & Protection	מר <u> </u>			m	3000
Pollution degree					3
					•

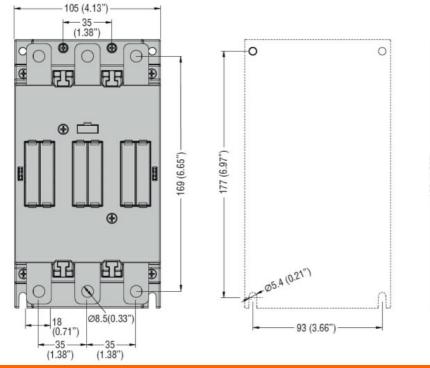
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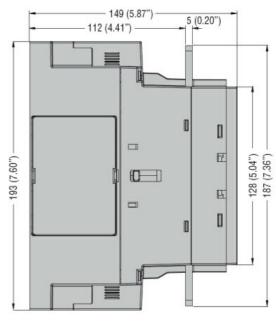
The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



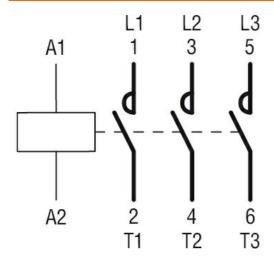
BF19500E024 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 195A, AC/DC COIL, 24...60VAC - 20...60VDC

Dimensions





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 UL 60947-1 UL 60947-4-1 Certificates CULus	
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IEC/EN/BS 60947-4-1 UL 60947-1 UL 60947-4-1 Certificates	
UL 60947-1 UL 60947-4-1 Certificates	
UL 60947-4-1 Certificates	
Certificates	
cULus	
ETIM classification	
ETIM 8.0	EC000066 - Power contactor, AC switching

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