

BF5000A12060 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 50A, AC COIL 60HZ, 120VAC



Product designation Power contactor Product type designation BF50 Contact characteristics Number of poles Nr. 3 Rated insulation voltage UIEC/EN V 1000 Rated insulation voltage UIEC/EN V 8 Operational frequency min Hz 25 max Hz 400 IEC Conventional free air thermal current Ith A 90 Operational current le AC-1 (\$40°C) A 90 AC-1 (\$40°C) A 90 AC-1 (\$40°C) A 65 AC-3 (\$440V \$55°C) A 75 AC-1 (\$70°C) A 65 AC-3 (\$440V \$55°C) A 50 AC-4 (400V) A 28 Rated operational power AC-3 (T≤55°C) 230V kW 11 400V kW 22 500V kW 22 500V kW 30 Rated operational current AC-3 (T≤55°C) 230V kW 30 Rated operational current AC-3 (T≤55°C) 230V kW 30 Rated operational power AC-1 (T≤40°C) 230V A 50 415V A 50 400V A 50 400V A 50 400V A 23 Rated operational power AC-1 (T≤40°C) 230V kW 34 400V kW 59 500V kW 74 690V kW 74 500V kW 74 690V kW 74 500V kW 74 690V kW 74 500V kW 74 690V kW 74 690V kW 74 690V kW 74 690V kW 74 690V kW 74 690V kW 40 75V A 50 1EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series				
Contact characteristicsNumber of polesNr. 3Rated insultan voltage UI IEC/ENVRated insultan voltage UI IEC/ENVOperational frequencyminHz25maxHzHz400IEC Conventional frequencyA90AC-1 (540°C)A90Operational current leAAC-1 (540°C)AAC-1 (55°C)AAC-1 (55°C)AAC-1 (55°C)AAC-1 (570°C)AAC-1 (570°C)AAC-1 (570°C)AAC-1 (540°C)AAC-1 (570°C)AAC-1 (570°C)AAC-1 (570°C)AAC-3 (5440V 55°C)A230VkW400VkW22440V400VkW22440V400VkW230VkW400VkW230VkW400VA50500V400VA50500V400VA50500V400VA690VA400VKW400VA500VA440VA50500V400VA50500V400VA50500V400VA50500V400VA500VKW400VKW <t< th=""><th>-</th><th></th><th></th><th></th></t<>	-			
Number of polesNr.3Rated insulation voltage Ui IEC/ENV1000Rated insulation voltage UimpkV8Operational frequencyminHz25maxHz400IEC Conventional free air thermal current IthA90Operational current IeAC-1 (≤40°C)A90AC-1 (≤55°C)A75AC-3 (≤400V)A28Rated operational power AC-3 (T≤55°C)230VkW11400VkW22440VkW22440VkW22440VkW22500VkW301000VkW30Rated operational current AC-3 (T≤55°C)230VkW11400V400VkW3050400VA50500VkW30301000VkW30Rated operational current AC-3 (T≤55°C)230VA50440VA50230VkW30301000VkW303030Rated operational current AC-3 (T≤55°C)230VA50440VA50230VkW333333333333331000VA50500VA44690VA39333				BF50
Rated insulation voltage Ui IEC/EN V 1000 Rated inpulse withstand voltage Uimp KV 8 Operational frequency min Hz 25 IEC conventional frequency min Hz 400 Operational current le A 90 Operational current le AC-1 (≤40°C) A 90 AC-1 (≤55°C) A 75 AC-1 (≤55°C) A AC-1 (≤40°VC) A 65 AC-3 (≤440V ≤55°C) A 65 AC-3 (≤440V ≤55°C) A 75 AC-4 (400V) A 28 Rated operational power AC-3 (T≤55°C) 230V kW 11 400V kW 22 4140V kW 22 415V kW 22 440V kW 22 690V kW 30 Rated operational current AC-3 (T≤55°C) 230V A 50 4000V kW 30 30 30 Rated operational current AC-3 (T≤55°C) 230V A 50 <				
Rated impulse withstand voltage Uimp kV 8 Operational frequency min Hz 25 max Hz 400 IEC Conventional free air thermal current lth A 90 Operational current le AC-1 (≤40°C) A 90 AC-1 (≤55°C) A 75 AC-1 (≤55°C) A 50 AC-3 (≤440V ≤55°C) A 50 AC-4 (400V) A 28 Rated operational power AC-3 (T≤55°C) 230V kW 11 400V kW 22 440V kW 22 680V kW 30 Rated operational current AC-3 (T≤55°C) 230V A 50 440V kW 22 680V kW 30 Rated operational current AC-3 (T≤55°C) 230V A 50 440V A 50 440V A 50 500V A 43 690V A 39 500V A 440V A 50 50 500V				
Operational frequency min Hz 25 max Hz 400 IEC Conventional free air thermal current lth A 90 Operational current le AC-1 (≤40°C) A 90 AC-1 (≤55°C) A 75 AC-1 (≤55°C) A 75 AC-3 (≤440V) <55°C)				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			kV	8
max Hz 400 IEC Conventional free air thermal current lth A 90 Operational current le AC-1 (\$40°C) A 90 AC-1 (\$55°C) A 90 AC-1 (\$55°C) A 90 AC-1 (\$55°C) A 65 AC-3 (\$55°C) A 50 AC-3 (\$400\ \$55°C) A 50 AC-4 (400V) A 28 Rated operational power AC-3 (T≤55°C) 230V kW 11 400V kW 22 440V kW 22 500V kW 22 500V kW 22 690V kW 30 30 30 30 30 Rated operational current AC-3 (T≤55°C) 230V kW 30 30 Rated operational current AC-3 (T≤55°C) 230V A 50 440V A 50 400V A 50 440V A 50 440V A 50 415V A 50 440V A	Operational frequency			
LEC Conventional free air thermal current lth A 90 Operational current le AC-1 (s40°C) A 90 AC-1 (s55°C) A 75 AC-1 (s70°C) A 65 AC-3 (s440V s55°C) A 50 AC-4 (400V) A 28 Rated operational power AC-3 (T≤55°C) 230V kW 11 400V kW 22 415V kW 22 415V kW 22 690V kW 30 Rated operational current AC-3 (T≤55°C) 230V kW 22 690V kW 30 Rated operational current AC-3 (T≤55°C) 230V A 50 440V A 50 440V kW 30 30 30 30 30 30 Rated operational current AC-3 (T≤55°C) 230V A 50 440V A 50 1000V A 23 A 440 A 50 500V 440 A 690V 23 A 400V		min		
Operational current le AC-1 (\$40°C) A 90 AC-1 (\$55°C) A 75 AC-1 (\$55°C) A 75 AC-1 (\$70°C) A 65 AC-3 (\$440V \$55°C) A 50 Rated operational power AC-3 (T≤55°C) 230V kW 11 400V kW 22 415V kW 22 440V kW 22 500V kW 22 690V kW 30 1000V kW 30 1000V kW 30 Rated operational current AC-3 (T≤55°C) 230V A 50 440V A 50 415V A 50 440V A 50 440V A 50 400V A 50 440V A 50 500V kW 34 690V A 39 1000V A 23 23 74 690V KW 34 400V 690V KW 55 500V kW 34		max		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			A	90
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Operational current le			
AC-1 (≤70°C) A 65 AC-3 (≤440V ≤55°C) A 50 AC-4 (400V) A 28 Rated operational power AC-3 (T≤55°C) 230V kW 11 400V kW 22 415V kW 22 415V kW 22 416V kW 22 400V kW 22 500V kW 30 Rated operational current AC-3 (T≤55°C) 230V A 50 400V kW 30 30 30 Rated operational current AC-3 (T≤55°C) 230V A 50 415V A 50 415V A 50 416V A 50 500V A 440V A 50 1000V A 23 <td< td=""><td></td><td></td><td>А</td><td>90</td></td<>			А	90
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			А	75
AC-4 (400V) A 28 Rated operational power AC-3 (T≤55°C) 230V kW 11 400V kW 22 415V kW 22 415V kW 22 500V kW 22 690V kW 30 1000V kW 30 Rated operational current AC-3 (T≤55°C) 230V A 50 440V A 50 440V A 50 440V A 50 440V A 50 440V A 50 500V A 44 690V A 39 1000V A 50 440V A 50 500V A 44 690V A 39 1000V A 23 Rated operational power AC-1 (T≤40°C) 230V kW 34 400V kW 59 500V kW 74 690V kW 102 102 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series 524V A 45 48V A			А	65
Rated operational power AC-3 (T≤55°C) 230V kW 11 400V kW 22 415V kW 22 440V kW 22 500V kW 22 500V kW 22 690V kW 30 Rated operational current AC-3 (T≤55°C) 230V A 50 400V A 50 415V A 50 440V A 50 500V A 44 690V A 39 1000V A 23 Rated operational power AC-1 (T≤40°C) 230V kW IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series 54V A 520V KW 102 IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series <td></td> <td></td> <td>А</td> <td>50</td>			А	50
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		AC-4 (400V)	Α	28
$\begin{array}{c} 400V & kW & 22 \\ 415V & kW & 22 \\ 440V & kW & 22 \\ 500V & kW & 22 \\ 690V & kW & 30 \\ \hline \\ 800V & kW & 30 \\ \hline \\ Rated operational current AC-3 (T \le 55^{\circ}C) \\ \hline \\ 230V & A & 50 \\ 400V & A & 50 \\ 400V & A & 50 \\ 440V & A & 50 \\ 500V & A & 44 \\ 690V & A & 39 \\ 100V & A & 23 \\ \hline \\ Rated operational power AC-1 (T \le 40^{\circ}C) \\ \hline $	Rated operational power AC-3 (T≤55°C)			
$ \begin{array}{c} 415V & kW & 22 \\ 440V & kW & 22 \\ 500V & kW & 22 \\ 690V & kW & 30 \\ \hline \\ \hline \\ Rated operational current AC-3 (T≤55°C) \\ \hline \\ 230V & A & 50 \\ 400V & A & 50 \\ 400V & A & 50 \\ 415V & A & 50 \\ 444VV & A & 50 \\ 444VV & A & 50 \\ 500V & A & 44 \\ 690V & A & 39 \\ 1000V & A & 23 \\ \hline \\ \hline \\ Rated operational power AC-1 (T≤40°C) \\ \hline \\ \hline \\ Rated operational power AC-1 (T≤40°C) \\ \hline \\ \hline \\ IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $		230V	kW	11
$ \begin{array}{c cccc} 440 & kW & 22 \\ 500 & kW & 30 \\ \hline \\ 690 & kW & 30 \\ \hline \\ 1000 & kW & 30 \\ \hline \\ \hline \\ Rated operational current AC-3 (T \le 55°C) \\ \hline \\ 230 & A & 50 \\ 400 & A & 50 \\ 400 & A & 50 \\ 415 & A & 50 \\ 415 & A & 50 \\ 440 & A & 50 \\ 500 & A & 44 \\ 690 & A & 39 \\ 1000 & A & 23 \\ \hline \\ \hline \\ Rated operational power AC-1 (T \le 40°C) \\ \hline \\ \hline \\ Rated operational power AC-1 (T \le 40°C) \\ \hline \\ \hline \\ Rated operational power AC-1 (T \le 40°C) \\ \hline \\ \hline \\ \hline \\ Rated operational power AC-1 (T \le 40°C) \\ \hline \\ \hline \\ \hline \\ \hline \\ Rated operational power AC-1 (T \le 40°C) \\ \hline \\ $		400V	kW	22
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		415V	kW	22
$\begin{tabular}{ c c c c c c } \hline & & & & & & & & & & & & & & & & & & $		440V	kW	22
1000V kW 30 Rated operational current AC-3 (T≤55°C) 230V A 50 400V A 50 415V A 50 440V A 50 500V A 44 690V A 39 1000V A 23 Rated operational power AC-1 (T≤40°C) 230V kW 34 400V kW 59 500V kW 34 400V kW 59 500V kW 102 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V A 45 48V A 40 75V A 40 75V A 40 110V A 8 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series -		500V	kW	22
230V A 50 400V A 50 415V A 50 440V A 50 440V A 50 500V A 44 690V A 39 1000V A 23 Rated operational power AC-1 (T≤40°C) 230V kW 34 400V kW 59 500V kW 74 690V kW 102 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V A 45 48V A 40 75V A 40 110V A 8 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series		690V	kW	30
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		1000V	kW	30
	Rated operational current AC-3 (T≤55°C)			
$ \begin{array}{ccccc} 415 & A & 50 \\ 440 & A & 50 \\ 500 & A & 44 \\ 690 & A & 39 \\ 1000 & A & 23 \end{array} \\ \hline \\$		230V	А	50
$ \begin{array}{ccccc} 440 & A & 50 \\ 500 & A & 44 \\ 690 & A & 39 \\ 1000 & A & 23 \\ \hline \\ \mbox{Rated operational power AC-1 (T \le 40 ^{\circ} C)} & & & & & \\ & & & & & & \\ & & & & & & $		400V	А	50
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		415V	А	50
$\begin{tabular}{ c c c c } \hline & & & & & & & & & & & & & & & & & & $		440V	А	50
1000VA23Rated operational power AC-1 (T≤40°C)230VkW34400VkW59500VkW74690VkW102IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series $\leq 24V$ A4548VA4075VA40110VA8220VA-IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series		500V	А	44
Rated operational power AC-1 (T≤40°C)230VkW34400VkW59500VkW74690VkW102IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series $\leq 24V$ A4548VA4075VA40110VA8220VA-IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series		690V	А	39
$\begin{array}{cccc} 230 V & kW & 34 \\ 400 V & kW & 59 \\ 500 V & kW & 74 \\ 690 V & kW & 102 \end{array}$ $\begin{array}{cccc} \text{IEC max current le in DC1 with L/R \leq 1 ms with 1 poles in series} & & & & \\ & \leq 24 V & A & 45 \\ & 48 V & A & 40 \\ & 75 V & A & 40 \\ & 110 V & A & 8 \\ & 220 V & A & - \end{array}$ $\begin{array}{cccc} \text{IEC max current le in DC1 with L/R \leq 1 ms with 2 poles in series} & & & \\ \end{array}$		1000V	А	23
$ \begin{array}{ccc} 400 V & k W & 59 \\ 500 V & k W & 74 \\ 690 V & k W & 102 \end{array} \\ \hline \mbox{IEC max current le in DC1 with L/R \leq 1ms with 1 poles in series} \\ & \leq 24 V & A & 45 \\ 48 V & A & 40 \\ 75 V & A & 40 \\ 75 V & A & 40 \\ 110 V & A & 8 \\ 220 V & A & - \end{array} \\ \hline \mbox{IEC max current le in DC1 with L/R \leq 1ms with 2 poles in series} } \\ \hline \end{tabular}$	Rated operational power AC-1 (T≤40°C)			
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		230V	kW	34
$\begin{tabular}{ c c c c } \hline 690V & kW & 102 \\ \hline IEC \mbox{ max current le in DC1 with L/R \le 1ms with 1 poles in series} \\ \hline \le 24V & A & 45 \\ \hline 48V & A & 40 \\ \hline 75V & A & 40 \\ \hline 110V & A & 8 \\ \hline 220V & A & - \\ \hline IEC \mbox{ max current le in DC1 with L/R \le 1ms with 2 poles in series} \\ \hline \end{tabular}$		400V	kW	59
IEC max current le in DC1 with L/R \leq 1ms with 1 poles in series $\leq 24V$ A4548VA4075VA40110VA8220VA-		500V	kW	74
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		690V	kW	102
$ \begin{array}{cccc} 48V & A & 40 \\ 75V & A & 40 \\ 110V & A & 8 \\ 220V & A & - \\ \end{array} \\ \hline \mbox{IEC max current le in DC1 with L/R \leq 1ms with 2 poles in series} \end{array} $	IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series			
$\begin{array}{cccc} 75 \mbox{V} & \mbox{A} & 40 \\ 110 \mbox{V} & \mbox{A} & 8 \\ 220 \mbox{V} & \mbox{A} & - \end{array}$ IEC max current le in DC1 with L/R \leq 1ms with 2 poles in series		≤24V	А	45
$\label{eq:linear} \begin{array}{ccc} 110V & A & 8\\ 220V & A & -\\ \end{array}$ IEC max current le in DC1 with L/R \leq 1ms with 2 poles in series		48V	А	40
$\frac{220V}{IEC max current le in DC1 with L/R \le 1ms with 2 poles in series} = \frac{220V}{1EC} = \frac{1}{12} + \frac{1}{12$		75V	А	40
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series		110V	А	8
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series		220V	А	_
	IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
		≤24V	А	60

ENERGY AND AUTOMATION

BF5000A12060 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 50A, AC COIL 60HZ, 120VAC

	48V	А	60
	75V	А	60
	110V	А	50
	220V	А	7
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	А	60
	48V	А	60
	75V	А	60
	110V	А	55
	220V	А	75
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
· ·	≤24V	А	60
	48V	A	60
	75V	A	60
	110V	A	60
	220V	A	90
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	2201	Α	50
TEC max current le in DC3-DC3 with L/R ≤ 15ms with 1 poles in series	≤24V	А	20
			30
	48V	A	25
	75V	A	22
	110V	A	3
	220V	A	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series			
	≤24V	А	35
	48V	А	35
	75V	А	30
	110V	А	25
	220V	А	5
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series			
	≤24V	А	50
	48V	А	50
	75V	А	45
	110V	А	30
	220V	А	40
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	А	55
	48V	А	55
	75V	А	55
	110V	A	45
	220V	A	50
Short-time allowable current for 10s (IEC/EN60947-1)		A	400
Protection fuse			
	gG (IEC)	А	100
	aM (IEC)	A	50
Making capacity (RMS value)		A	500
Breaking capacity at voltage		Λ	000
broaking bapaolity at voltage	440V	Λ	400
	440V 500V	A	
		A	352
	690V	A	312
Resistance per pole (average value)		mΩ	0.8
Power dissipation per pole (average value)	.		
	Ith	W	6.5
	AC-3	W	2
Tightening torque for terminals			



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		min	Nm	4
		max	Nm	5
		min	Ibin	2.95
		max	Ibin	3.69
Tightening torque for	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	0.8
		max	lbin	0.74
Max number of wires	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		2
	Flexible w/o lug conductor section	Пах		۲
	Flexible w/o lug conductor section			4 5
		min	mm²	1.5
		max	mm²	35
	Flexible c/w lug conductor section			
		min	mm²	1.5
		max	mm²	35
Power terminal protect	ction according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
		allowable		Screw / DIN rail
Fixing				35mm
Weight			a	1020
-			g	1020
Conductor section				
	AWG/kcmil conductor section			
		max		2
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1400000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
	5	rated load	cycles	1400000
		mechanical load	cycles	15000000
Mirror contate accord	ing to IEC/EN 609474-4-1	moonamoarioau	0,000	
	ing to ILO/LIN 003474-4-1			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 6	50Hz		V	120
AC operating voltage				
	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out	man		
	diop-out	min	%Us	20
				20 55
	umption at 20°C	max	%Us	55
AC average coil cons				
	of 60Hz coil powered at 60Hz			
		in-rush	VA	210
		holding	VA	15
		-		





THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 50A, AC COIL 60HZ, 120VAC

Dissipation at holdi			W	5
Max cycles frequer Mechanical operati			cycles/h	3600
Operating times			Cycles/II	5000
verage time for U	s control			
	in AC			
	Closing NO			
		min	ms	12
		max	ms	28
	Opening NO			0
		min	ms	8 22
	in DC	max	ms	22
	Closing NO			
		min	ms	40
		max	ms	85
	Opening NO		-	
		min	ms	20
		max	ms	55
JL technical data				
Full-load current (F	LA) for three-phase AC motor			
		at 480V	А	52
		at 600V	A	41
Yielded mechanica				
	for single-phase AC motor	440/400/4		_
		110/120V	HP	5
	for three phase AC motor	230V	HP	10
	for three-phase AC motor	200/208V	HP	15
		200/208V 220/230V	HP	20
		460/480V	HP	40
		575/600V	HP	40
General USE		010,0001		10
	Contactor			
	Contactor	AC current	А	90
Short-circuit protec	tion fuse, 600V		-	
	High fault			
		Short circuit current	kA	100
		Fuse rating	А	150
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	150
A		Fuse class		RK5
Ambient conditions				
Femperature				
	Operating temperature		°C	50
		min	°C °C	-50 70
	Storago tomocraturo	max	U	70
	Storage temperature	min	°C	-60
		max	°C	-60 80
Max altitude		IIIdX	 	3000
Resistance & Prote			111	5000

BF5000A12060 The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

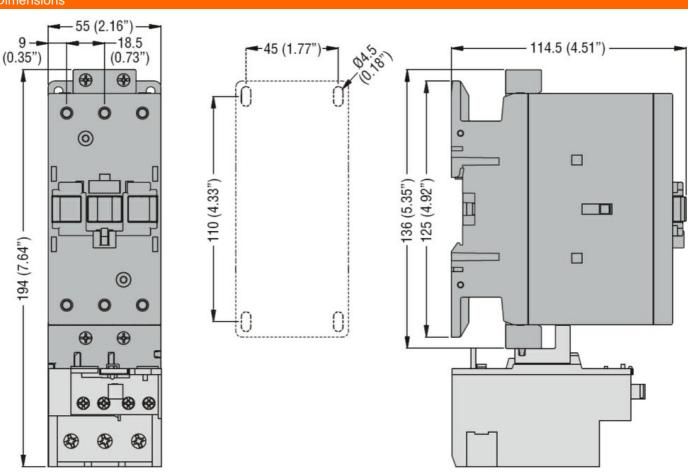


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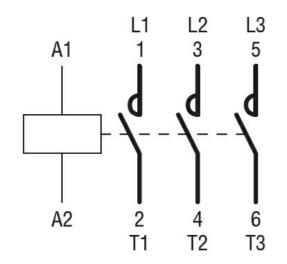
3

Pollution degree





Wiring diagrams



Certifications and compliance

Compliance

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



ENERGY AND AUTOMATION

Certificates		
	CCC	
	cULus	
ETIM classificati	on	
		EC000066 -
ETIM 8.0		Power contactor,

Power contactor, AC switching