



Product designation			Power contactor
Product type designation			BF50
Contact characteristics			
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	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)	А	90
	AC-1 (≤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)	7.0 1 (1007)		20
	230V	kW	11
	400V	kW	22
	415V	kW	22
	440V	kW	22
	500V	kW	22
	690V	kW	30
	1000V	kW	22
Rated operational current AC-3 (T≤55°C)	10001		
	230V	А	50
	400V	A	50
	400V 415V	A	50
	440V	A	50
	500V	A	44
	690V	A	39
	1000V	A	23
Rated operational power AC-1 (T≤40°C)	10001		20
	230V	kW	34
	400V	kW	59
	400V 500V	kW	74
	690V	kW	102
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	0001		102
	≤24V	А	45
	48V	A	40
	48V 75V	A	40
	110V	A	8
	220V	A	-
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	220 V	~	-
$1 \ge 0$ max current le in DOT with $1/1 \ge 1005$ with 2 poles in series			

≤24V

А

60



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 50A, AC COIL 50/60HZ, 110VAC

BF5000A110	
3) = 50A, AC COIL 50/60HZ.	

А	A 60
А	A 60
А	A 50
А	A 7
А	A 60
А	A 60
А	A 60
А	A 55
А	A 75
А	A 60
А	A 90
А	A 30
А	A 25
А	A 22
А	A 3
Α	A –
А	A 35
А	A 35
А	A 30
А	
Α	A 5
А	
А	A 50
А	
А	A 30
Α	A 40
А	
А	
А	
А	
А	
А	A 400
А	
А	
А	A 500
А	
А	
А	
mΩ	mΩ 0.8
W	
W	W 2

BF5000A110



BF5000A110 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 50A, AC COIL 50/60HZ, 110VAC

min Nm 4 max Nm 5 min Nm 5 min Nm 5 min Nm 1 min Nm 1 min Nm 1 max mm* 1.5 max mm* 35 Power terminal protection according to IEC/EN 60529 IP20 front Mechanical features IP20 front Operating position normal Vertical plan conductor section normal 4 Conductor section g 1020 Conductor section </th <th></th> <th></th> <th></th> <th></th> <th></th>					
min lbin 3.69 Tightening torque for coil terminal min Nm 0.8 max Nm 1 min Nm 1 max Nm 1 0.8 max lbin 0.74 Max number of wires simultaneously connectable Nr. 2 0 Conductor section min min min* 1.5 Max number of wires simultaneously connectable min min* 1.5 Fiexible wio lug conductor section min mm* 3.5 Flexible civ lug conductor section min mm* 1.5 max mm* 1.5 5 5 Power terminal protection according to IEC/EN 60529 IP20 front Mechanical features Werical plan Operating position normal Vertical plan weight g 1020 Conductor section g 1020 Conductor section mex 2 Operations g 1020 Conductor section max 2 Operations g 1020 Conductor section max 2 Operations g 1020 Mechanical life cycles <			min	Nm	4
maxIbin3.69Tightening torque for coll terminalminNm0.8maxNm11minIbin0.8maxNm11minIbin0.74Max number of wires simultaneously connectableNr.2Conductor sectionmaxNr.2Flexible wio lug conductor sectionmin1.5maxmm²35Flexible civ lug conductor sectionmin*1.5maxmm²35Power terminal protection according to IEC/EN 60529remin*1.5Mechanical featuresmormalVertical planAWG/kcmil conductor sectionnormalVertical planMechanical featuresg1020Conductor sectiong1020Mechanical featuresg1020Conductor sectionmaxzFixingScrew / DIN railMechanical lifecyclesConductor sectiong10200AWG/kcmil conductor sectionmaxzMechanical lifecycles1500000Electrical lifecycles1500000Mechanical lifecycles1500000Mechanical lifecycles1500000Mechanical loadcycles1500000Mechanical lifecycles1500000Mechanical lifecycles1500000Mechanical lifecycles1500000Mechanical lifecycles1500000Mechanical life<			max	Nm	5
Tightening torque for coil terminal min Nm 0.8 max Nm 1 min Nm 1 max Ibin 0.74 max Ibin 0.74 Max number of wires simultaneously connectable Nr. 2 2 Conductor section max Ibin 0.74 15 15 AWG/Kcmil max mm² 35 15 15 Flexible c/w lug conductor section min mm² 35 16 <t< td=""><td></td><td></td><td>min</td><td>lbin</td><td>2.95</td></t<>			min	lbin	2.95
min Nm Nm 1 min Nm 1 max Nm 1 max Nm 1 Max number of wires simultaneously connectable Nr. 2 Conductor section Nr. 2 Flexible w/o lug conductor section max mm ² 1.5 max mm ² 35 Flexible c/w lug conductor section mm mm ² 1.5 max mm ² 1.5 1.5 max mm ² 35 1.5 Power terminal protection according to IEC/EN 60529 mm ² 1.5 Power terminal protection according to IEC/EN 60529 mm ² 1.5 Mechanical features Screw / DIN rail 35 Power terminal protection according to IEC/EN 60529 Weintice a plan allowable ±30° 50 Fixing Screw / DIN rail 35 Weight g 1020 Conductor section max 2 Cepterations rated load cycles Mechanical life cycles 1500000 Electrical life cycles 1400000 Mechanical life cycles 1400000 Mechanical life cycles			max	lbin	3.69
max minmax lbin1 lbin0.8 lbinMax number of wires simultaneously connectableNr.2Conductor sectionMWG/Kcmilmax2Flexible w/o lug conductor sectionmax2Flexible c/w lug conductor sectionminmm²1.5 maxFlexible c/w lug conductor sectionminmm²3.5Power terminal protection according to IEC/EN 60529IP20 frontIP20 frontMechanical featuresmormal allowableVertical plan ±30°Operating positiong1020Conductor sectiong1020Conductor sectiong1020Conductor sectiong1020Conductor sectiong1020Conductor sectionmax2Operating positiong1020Conductor sectionmax2AWG/kcmil conductor sectionmax2Conductor sectionmax2AWG/kcmil conductor sectionmax2Conductor sectionmax2AWG/kcmil conductor sectionmax2AWG/kcmil to EL/EN 609474-4-1cycles15000000Miror contats according to EL/EN 609474-4-1yesAttend AC voltage at 50/k0HzV110Miror contats according to EL/EN 609474-4-1yesAttend AC voltage at 50/k0HzV110Attend AC voltage at 50/k0HzV110Attend AC voltage at 50/k0HzV110Attend AC voltage at 50/k0HzV <td>Tightening torque for a</td> <td>coil terminal</td> <td></td> <td></td> <td></td>	Tightening torque for a	coil terminal			
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max Ibin 0.74 Max number of wires simultaneously connectable Nr. 2 Conductor section max 2 Flexible w/o lug conductor section min mm² 1.5 max mm² 35 1.5 Flexible c/w lug conductor section min mm² 1.5 Flexible c/w lug conductor section min mm² 35 Power terminal protection according to IEC/EN 60529 IP20 front IP20 front Mechanical features over ical plan 30° Fixing Screw / DIN rail 35mm Weight g 1020 Conductor section max 2 Conductor section max 2 Max humber of wires section max 2 Weight g 1020 Conductor section max 2 Conductor section max 2 Mechanical life cycles 15000000 Electrical life cycles 15000000 Settore max 2 Operations vertical plan 1400000 Miror contats according to EN/ISO 13489-1 rated load cycles 15000000 Miror contats according to IEC/EN 609474-4-1			max	Nm	1
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Flexible c/w lug conductor section min mtm² 1.5 max mm² 35 Power terminal protection according to IEC/EN 60529 IP20 front Mechanical features inormal Vertical plan allowable 430° 5 Fixing Screw / DIN rail 35mm Weight g 1020 Conductor section max 2 Operations max 2 Mechanical life cycles 1500000 Electrical life cycles 1500000 Starty related data vers 1400000 Safety related data vers 15000000 Miror contats according to EN/ISO 13489-1 rated load cycles 1400000 Safety related data vers 15000000 1400000 15000000 Miror contats according to EN/ISO 13489-1 vers 1400000 1400000 15000000 Miror contats according to IEC/EN 609474-4-1 yes 15000000 1400000 1400000 15000000 1400000 15000000 1400000 1400000 1400000 15000000 1400000			min	mm²	1.5
min mm² 1.5 max mm² 35 Power terminal protection according to IEC/EN 60529 IP20 front Mechanical features IP20 front Operating position normal allowable ±30° Fixing Screw / DIN rail 35 mm Weight g 1020 Conductor section max 2 Operations max 2 Operations max 2 Operations max 2 Mechanical life cycles 15000000 Electrical life cycles 1400000 Safety related data 1400000 15000000 Mirror contats according to EN/ISO 13489-1 rated load cycles Mechanical load cycles 1400000 Mirror contats according to EC/EN 609474-4-1 yes EMC compatibility yes AC operating V 110 AC operating voltage at 50/60Hz V 110 AC operating voltage at 50/60Hz coil powered at 50Hz min %Us 80 max %Us 55 55 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 55 <td></td> <td></td> <td>max</td> <td>mm²</td> <td>35</td>			max	mm²	35
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Mechanical features Operating position Operating position normal allowable vertical plan ±30° Fixing Screw / DIN rail 35mm Weight g 1020 Conductor section max 2 Operations max 2 Mechanical life cycles 1500000 Electrical life cycles 1400000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 1400000 Micro contats according to IEC/EN 609474-4-1 yes EMC compatibility yes yes AC coil operating uses yes AC coil operating voltage of 50/60Hz coil powered at 50Hz pick-up v 110 AC operating voltage of 50/60Hz coil powered at 60Hz pick-up min %Us 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 55 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 55 55			max	mm²	35
Operating position normal allowable Vertical plan ±30° Fixing Screw / DIN rail 35mm Weight g 1020 Conductor section max 2 Operations max 2 Mechanical life cycles 1500000 Electrical life cycles 1400000 Safety related data		ction according to IEC/EN 60529			IP20 front
normal allowable Vertical plan ±30° Fixing Screw / DIN rail 35mm Weight g 1020 Conductor section max 2 Operations max 2 Mechanical life cycles 15000000 Electrical life cycles 140000 Safety related data rated load cycles 140000 Performance level B10d according to EN/ISO 13489-1 yes 1400000 Mirror contats according to IEC/EN 609474-4-1 yes yes EMC compatibility yes yes AC coll operating yes yes AC coll operating v 110 AC operating voltage of 50/60Hz coil powered at 50Hz pick-up v 110 AC operating voltage of 50/60Hz coil powered at 60Hz pick-up min %US 80 max %US 55 55 55 55 of 50/60Hz coil powered at 60Hz pick-up min %US 55	Mechanical features				
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Fixing Screw / DIN rail Strem 35mm Weight g 1020 Conductor section max 2 AWG/kcmil conductor section max 2 Mechanical life cycles 1500000 Electrical life cycles 140000 Safety related data rated load cycles 140000 Performance level B10d according to EN/ISO 13489-1 rated load cycles 140000 Mirror contats according to IEC/EN 609474-4-1 yes 15000000 15000000 Mirror contats according to IEC/EN 609474-4-1 yes 1400000 mechanical load cycles 1400000 Mated AC voltage at 50/60Hz yes yes 100 AC coperating yes AC coil operating of 50/60Hz coil powered at 50Hz v 110 AC operating voltage amax %Us 110 AC operating voltage of 50/60Hz coil powered at 60Hz min %Us 55 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 55 min %Us 85 55 55			normal		Vertical plan
Fixing 35mm Weight g 1020 Conductor section max 2 Operations max 2 Mechanical life cycles 1500000 Electrical life cycles 140000 Safety related data cycles 140000 Performance level B10d according to EN/ISO 13489-1 rated load cycles 1400000 Mirror contats according to IEC/EN 609474-4-1 yes 15000000 15000000 Mirror contats according to IEC/EN 609474-4-1 yes 2 2 EMC compatibility yes 2 3500000 20 AC coil operating of 50/60Hz coil powered at 50Hz v 110 36 AC operating voltage of 50/60Hz coil powered at 50Hz min %Us 55 of 50/60Hz coil powered at 60Hz min %Us 55 of 50/60Hz coil powered at 60Hz min %Us 55			allowable		±30°
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Conductor section AWG/kcmil conductor section max 2 Operations cycles 1500000 Bechanical life cycles 140000 Safety related data rated load cycles 1400000 Performance level B10d according to EN/ISO 13489-1 rated load cycles 1400000 Mirror contats according to IEC/EN 609474-4-1 yes 1500000 Mirror contats according to IEC/EN 609474-4-1 yes yes EMC compatibility yes 46 coil operating AC coil operating yes yes AC coil operating of 50/60Hz coil powered at 50Hz v 110 AC operating voltage of 50/60Hz coil powered at 50Hz min %Us 80 min %Us 55 55 55 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 55	Weight			g	1020
max 2 Operations	Conductor section				
Operations Mechanical life cycles 1500000 Electrical life cycles 140000 Safety related data rated load cycles 1400000 Performance level B10d according to EN/ISO 13489-1 rated load cycles 1400000 Mirror contats according to IEC/EN 609474-4-1 yes 15000000 Mirror contats according to IEC/EN 609474-4-1 yes yes AC coil operating yes yes AC coil operating yes yes AC coil operating V 110 AC operating voltage of 50/60Hz coil powered at 50Hz V 110 AC operating voltage of 50/60Hz coil powered at 50Hz min %Us 80 max %Us 110 355 355 355 of 50/60Hz coil powered at 60Hz pick-up min %Us 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 85		AWG/kcmil conductor section			
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Electrical life cycles 1400000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 1400000 mechanical load cycles 15000000 Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility AC coil operating Rated AC voltage at 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	Operations				
Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 1400000 mechanical load cycles 15000000 Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility Ves AC coil operating Rated AC voltage at 50/60Hz of 50/60Hz coil powered at 50Hz pick-up of 50/60Hz coil powered at 50Hz fick-up of 50/60Hz coil powered at 60Hz pick-up min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 85	Mechanical life			cycles	15000000
Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 1400000 mechanical load cycles 15000000 Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility Ves AC coil operating Rated AC voltage at 50/60Hz of 50/60Hz coil powered at 50Hz pick-up of 50/60Hz coil powered at 50Hz fick-up of 50/60Hz coil powered at 60Hz pick-up min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 85	Electrical life			cycles	1400000
rated load mechanical load cycles cycles 1400000 15000000 Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes AC coil operating yes AC coil operating V 110 AC operating voltage V 110 AC operating voltage of 50/60Hz coil powered at 50Hz pick-up V 110 Mirop-out min %Us 80 max %Us Mirop-out min %Us 55 of 50/60Hz coil powered at 60Hz pick-up 55 55 Mirop-out min %Us 85	Safety related data				
mechanical loadcycles1500000Mirror contats according to IEC/EN 609474-4-1yesEMC compatibilityyesAC coil operatingVRated AC voltage at 50/60HzVAC operating voltagevof 50/60Hz coil powered at 50Hz pick-upmin%Us80 maxmin%Us%Us110 55of 50/60Hz coil powered at 60Hz pick-upmin%Us55of 50/60Hz coil powered at 60Hz pick-upmin%Us85	Performance level B1	0d according to EN/ISO 13489-1			
mechanical loadcycles1500000Mirror contats according to IEC/EN 609474-4-1yesEMC compatibilityyesAC coil operatingyesRated AC voltage at 50/60HzV110AC operating voltageof 50/60Hz coil powered at 50Hz pick-upv110min%Us80 max%Us110drop-outmin%Us20 max%Us55of 50/60Hz coil powered at 60Hz pick-upmin%Us5555of 50/60Hz coil powered at 60Hz pick-upmin%Us85		-	rated load	cycles	1400000
Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes AC coil operating V Rated AC voltage at 50/60Hz V 110 AC operating voltage of 50/60Hz coil powered at 50Hz pick-up visit 100 Mirror contats according voltage min %Us 80 0f 50/60Hz coil powered at 50Hz pick-up min %Us 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 55			mechanical load	-	15000000
EMC compatibility yes AC coil operating Rated AC voltage at 50/60Hz V 110 AC operating voltage 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	Mirror contats accordi	ing to IEC/EN 609474-4-1		-	yes
AC coil operating Rated AC voltage at 50/60Hz V 110 AC operating voltage of 50/60Hz coil powered at 50Hz pick-up drop-out min %Us 80 max %Us 110 min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 85					
AC operating voltage of 50/60Hz coil powered at 50Hz pick-up drop-out <u>min %Us 80</u> max %Us 110 <u>min %Us 20</u> max %Us 55 of 50/60Hz coil powered at 60Hz pick-up <u>min %Us 85</u>	AC coil operating				
AC operating voltage of 50/60Hz coil powered at 50Hz pick-up drop-out <u>min</u> %Us 80 max %Us 110 <u>min</u> %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz pick-up <u>min</u> %Us 85	Rated AC voltage at 5	50/60Hz		V	110
of 50/60Hz coil powered at 50Hz pick-up drop-out <u>min</u> %Us 80 max %Us 110 <u>min</u> %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz pick-up <u>min</u> %Us 85					
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		of 50/60Hz coil powered at 50Hz			
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		-			
max %Us 110 drop-out min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz rick-up min %Us 85			min	%Us	80
drop-out min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 85			max	%Us	110
min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 85		drop-out			
max %Us 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 85			min	%Us	20
of 50/60Hz coil powered at 60Hz pick-up min %Us 85					
pick-up min %Us 85		of 50/60Hz coil powered at 60Hz			
min %Us 85					
		1 F	min	%Us	85
			max	%Us	110

BF5000A110



THREE-POLE CONTACTOR, IEC OPERATING 110VAC

	BF50	00A110
G CURRENT IE (AC3) = 50A,	AC COIL	50/60HZ,

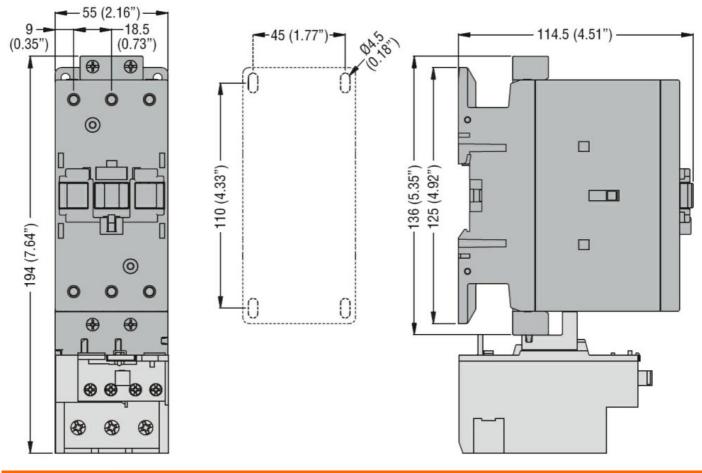
	drop-out			
		min	%Us	40
		max	%Us	55
AC average coil consi	umption at 20°C	Пал	/000	
i i i i i i i i i i i i i i i i i i i	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	210
		holding	VA	15
	of 50/60Hz coil powered at 60Hz	Ŭ		
		in-rush	VA	195
		holding	VA	13
	of 60Hz coil powered at 60Hz			
		in-rush	VA	210
		holding	VA	15
Dissipation at holding			W	5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us c				
	in AC			
	Closing NO			
		min	ms	12
		max	ms	28
	Opening NO			
		min	ms	8
		max	ms	22
	in DC			
	Closing NO			40
		min	ms	40
		max	ms	85
	Opening NO	min	ms	20
		max	ms	55
UL technical data		max	1113	55
) for three-phase AC motor			
		at 480V	А	52
		at 600V	A	41
Yielded mechanical po	erformance			
	for single-phase AC motor			
	~ •	110/120V	HP	5
		230V	HP	10
	for three-phase AC motor			
		200/208V	HP	15
		220/230V	HP	20
		460/480V	HP	40
		575/600V	HP	40
General USE				
	Contactor			
		AC current	А	90
Short-circuit protection	n fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	А	150
		Fuse class		J
	Standard fault			

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BF5000A110 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 50A, AC COIL 50/60HZ, 110VAC

		Short circuit current Fuse rating Fuse class	kA A	5 150 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 & Protec	tion			
Pollution degree				3
Dimensions				

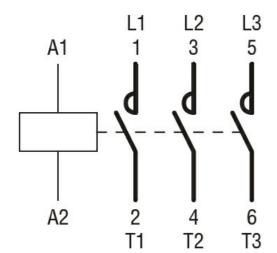


Wiring diagrams

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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 50A, AC COIL 50/60HZ, 110VAC



Certifications and compliance

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Compliance	
	CSA C22.2 n° 60947-1
	CSA C22.2 n° 60947-4-1
	IEC/EN/BS 60947-1
	IEC/EN/BS 60947-4-1
	UL 60947-1
	UL 60947-4-1
Certificates	
	CCC
	cULus
ETIM classification	

ETIM 8.0

EC000066 -Power contactor, AC switching