

TEST REPORTS

SERIE: V5

REFERENCES: V5110B-V50145B-V50210B-V50250B

DESCRIPTION: SOFTSTARTERS V5 220-500V III,
IP20

SERIAL NUMBERS: 209012083 – 2909012095 –
2909012096 – 2909012097 – 2909012085 – 2909012113
– 2909012114 – 2909012115 – 2909012129 –
2909012130 – 2909012131 – 2909012164 – 2909012165
– 2909012166 – 3009012175 – 3009012176 –
3009012177 – 3009012196 – 3009012197 – 2909012081
– 2909012167 – 2909012168 – 2909012169 –
3009012185 – 3009012215 – 3009012216 – 3009012217
– 3009012218 – 3009012219 – 2909012082 –
2909012086 – 2909012087 – 2909012104 - 2909012105

TESTED AND AUTHORIZED BY:

ANTONIA GIL / QUALITY MANAGER

Signature:



CHECK LIST SOFT STARTER

Order No.	Reference	Serial No.
9503	V50210B	2909012167

VISUAL INSPECTION

Tests	Expected Values	Result
Verification of the good condition of the chassis	No damages	OK
Verification of the right finished of transformer	No damages	OK
Check that the welding of the transformer's resistor is correct	Welding is right	OK
Check the torque at the input screw of the thyristors	Correct Torque	OK
Check the torque at the output screw of the thyristors	Correct Torque	OK
Check the torque of the heatsink to the chassis	Correct Torque	OK
Check of the wires and wiring connections	Wiring Connections Correct	OK

FINAL TEST

Reviewed points	Expected Values	Result
Check the control wiring	OK	
Check the power wiring	OK	
Check the wiring connection	OK	
Measuring between the input and output terminals	L1-U = from 10K Ω to 2.5M Ω	L1-U = 1.1 K Ω /M Ω
	L2-V = from 10K Ω to 2.5M Ω	L2-V = 1.1 K Ω /M Ω
	L3-W = from 10K Ω to 2.5M Ω	L3-W = 1.1 K Ω /M Ω
Measuring of the resistance between the terminals and the control board.	L1 red = 0 - 1 Ω	OK
	L1 red/white = 12 - 18 Ω	OK
	U yellow = 0 - 1 Ω	OK
	U yellow /white = 12 - 18 Ω	OK
	L2 blue = 0 - 1 Ω	OK
	L2 blue/white = 12 - 18 Ω	OK
	V grey = 0 - 1 Ω	OK
	V grey /white = 12 - 18 Ω	OK
	L3 green = 0 - 1 Ω	OK
	L3 green/white = 12 - 18 Ω	OK
	W brown = 0 - 1 Ω	OK
	W brown /white = 12 - 18 Ω	OK
Measurement of the resistance of the current transformer in parallel with the sensing resistor.	See table	L1: 20.8
	See table	L3: 20.8
Test the softstarter with lamps	Lights turn on according a ramp	OK
Test the operation of the softstarter with load (motor)	I empty: from 10 to 13A	I empty = 12.3 A
	Measure of the drop of the voltage between the input--output on control connectors (<1.8V)	L1-U = 0.1V
		L2-V = 0.1V
		L3-W = 0.1V
Adjustments of the display	G3.14: set up 4 G3.15: set up 30 G4.6: set up 5	
Check the fan/s	Proper running	OK
Test of the softstarter during one hour to the nominal load	Without faults	OK

CHECK LIST SOFT STARTER

Order No.	Reference	Serial No.
9503	V50210B	2909012168

VISUAL INSPECTION

Tests	Expected Values	Result
Verification of the good condition of the chassis	No damages	OK
Verification of the right finished of transformer	No damages	OK
Check that the welding of the transformer's resistor is correct	Welding is right	OK
Check the torque at the input screw of the thyristors	Correct Torque	OK
Check the torque at the output screw of the thyristors	Correct Torque	OK
Check the torque of the heatsink to the chassis	Correct Torque	OK
Check of the wires and wiring connections	Wiring Connections Correct	OK

FINAL TEST

Reviewed points	Expected Values	Result
Check the control wiring	OK	
Check the power wiring	OK	
Check the wiring connection	OK	
Measuring between the input and output terminals	L1-U = from 10K Ω to 2.5M Ω	L1-U = 1.1 K Ω /M Ω
	L2-V = from 10K Ω to 2.5M Ω	L2-V = 1.1 K Ω /M Ω
	L3-W = from 10K Ω to 2.5M Ω	L3-W = 1.1 K Ω /M Ω
Measuring of the resistance between the terminals and the control board.	L1 red = 0 - 1 Ω	OK
	L1 red/white = 12 - 18 Ω	OK
	U yellow = 0 - 1 Ω	OK
	U yellow /white = 12 - 18 Ω	OK
	L2 blue = 0 - 1 Ω	OK
	L2 blue/white = 12 - 18 Ω	OK
	V grey = 0 - 1 Ω	OK
	V grey /white = 12 - 18 Ω	OK
	L3 green = 0 - 1 Ω	OK
	L3 green/white = 12 - 18 Ω	OK
	W brown = 0 - 1 Ω	OK
	W brown /white = 12 - 18 Ω	OK
Measurement of the resistance of the current transformer in parallel with the sensing resistor.	See table	L1: 20.8
	See table	L3: 20.8
Test the softstarter with lamps	Lights turn on according a ramp	OK
Test the operation of the softstarter with load (motor)	I empty: from 10 to 13A	I empty = 12.4 A
	Measure of the drop of the voltage between the input--output on control connectors (<1.8V)	L1-U = 0V
		L2-V = 0V
		L3-W = 0V
Adjustments of the display	G3.14: set up 4 G3.15: set up 30 G4.6: set up 5	
Check the fan/s	Proper running	OK
Test of the softstarter during one hour to the nominal load	Without faults	OK

CHECK LIST SOFT STARTER

Order No.	Reference	Serial No.
9503	V50210B	2909012169

VISUAL INSPECTION

Tests	Expected Values	Result
Verification of the good condition of the chassis	No damages	OK
Verification of the right finished of transformer	No damages	OK
Check that the welding of the transformer's resistor is correct	Welding is right	OK
Check the torque at the input screw of the thyristors	Correct Torque	OK
Check the torque at the output screw of the thyristors	Correct Torque	OK
Check the torque of the heatsink to the chassis	Correct Torque	OK
Check of the wires and wiring connections	Wiring Connections Correct	OK

FINAL TEST

Reviewed points	Expected Values	Result
Check the control wiring	OK	
Check the power wiring	OK	
Check the wiring connection	OK	
Measuring between the input and output terminals	L1-U = from 10K Ω to 2.5M Ω	L1-U = 1130 K Ω /M Ω
	L2-V = from 10K Ω to 2.5M Ω	L2-V = 1132 K Ω /M Ω
	L3-W = from 10K Ω to 2.5M Ω	L3-W = 1113 K Ω /M Ω
Measuring of the resistance between the terminals and the control board.	L1 red = 0 - 1 Ω	OK
	L1 red/white = 12 - 18 Ω	OK
	U yellow = 0 - 1 Ω	OK
	U yellow /white = 12 - 18 Ω	OK
	L2 blue = 0 - 1 Ω	OK
	L2 blue/white = 12 - 18 Ω	OK
	V grey = 0 - 1 Ω	OK
	V grey /white = 12 - 18 Ω	OK
	L3 green = 0 - 1 Ω	OK
	L3 green/white = 12 - 18 Ω	OK
	W brown = 0 - 1 Ω	OK
	W brown /white = 12 - 18 Ω	OK
Measurement of the resistance of the current transformer in parallel with the sensing resistor.	See table	L1: 20.8
	See table	L3: 20.7
Test the softstarter with lamps	Lights turn on according a ramp	OK
Test the operation of the softstarter with load (motor)	I empty: from 10 to 13A	I empty = 12.2 A
	Measure of the drop of the voltage between the input--output on control connectors (<1.8V)	L1-U = 0.1V
		L2-V = 0.1V
		L3-W = 0V
Adjustments of the display	G3.14: set up 4 G3.15: set up 30 G4.6: set up 5	
Check the fan/s	Proper running	OK
Test of the softstarter during one hour to the nominal load	Without faults	OK

CHECK LIST SOFT STARTER

Order No.	Reference	Serial No.
9503	V50210B	3009012185

VISUAL INSPECTION

Tests	Expected Values	Result
Verification of the good condition of the chassis	No damages	OK
Verification of the right finished of transformer	No damages	OK
Check that the welding of the transformer's resistor is correct	Welding is right	OK
Check the torque at the input screw of the thyristors	Correct Torque	OK
Check the torque at the output screw of the thyristors	Correct Torque	OK
Check the torque of the heatsink to the chassis	Correct Torque	OK
Check of the wires and wiring connections	Wiring Connections Correct	OK

FINAL TEST

Reviewed points	Expected Values	Result
Check the control wiring	OK	
Check the power wiring	OK	
Check the wiring connection	OK	
Measuring between the input and output terminals	L1-U = from 10K Ω to 2.5M Ω	L1-U = 1.1 K Ω /M Ω
	L2-V = from 10K Ω to 2.5M Ω	L2-V = 1.1 K Ω /M Ω
	L3-W = from 10K Ω to 2.5M Ω	L3-W = 1.1 K Ω /M Ω
Measuring of the resistance between the terminals and the control board.	L1 red = 0 - 1 Ω	OK
	L1 red/white = 12 - 18 Ω	OK
	U yellow = 0 - 1 Ω	OK
	U yellow /white = 12 - 18 Ω	OK
	L2 blue = 0 - 1 Ω	OK
	L2 blue/white = 12 - 18 Ω	OK
	V grey = 0 - 1 Ω	OK
	V grey /white = 12 - 18 Ω	OK
	L3 green = 0 - 1 Ω	OK
	L3 green/white = 12 - 18 Ω	OK
	W brown = 0 - 1 Ω	OK
	W brown /white = 12 - 18 Ω	OK
Measurement of the resistance of the current transformer in parallel with the sensing resistor.	See table	L1: 20.8
	See table	L3: 20.8
Test the softstarter with lamps	Lights turn on according a ramp	OK
Test the operation of the softstarter with load (motor)	I empty: from 10 to 13A	I empty = 12.8 A
	Measure of the drop of the voltage between the input--output on control connectors (<1.8V)	L1-U = 0V
		L2-V = 0.1V
		L3-W = 0.1V
Adjustments of the display	G3.14: set up 4 G3.15: set up 30 G4.6: set up 5	
Check the fan/s	Proper running	OK
Test of the softstarter during one hour to the nominal load	Without faults	OK



CHECK LIST SOFT STARTER

Order No.	Reference	Serial No.
9503	V50210B	3009012215

VISUAL INSPECTION

Tests	Expected Values	Result
Verification of the good condition of the chassis	No damages	OK
Verification of the right finished of transformer	No damages	OK
Check that the welding of the transformer's resistor is correct	Welding is right	OK
Check the torque at the input screw of the thyristors	Correct Torque	OK
Check the torque at the output screw of the thyristors	Correct Torque	OK
Check the torque of the heatsink to the chassis	Correct Torque	OK
Check of the wires and wiring connections	Wiring Connections Correct	OK

FINAL TEST

Reviewed points	Expected Values	Result
Check the control wiring	OK	
Check the power wiring	OK	
Check the wiring connection	OK	
Measuring between the input and output terminals	L1-U = from 10K Ω to 2.5M Ω	L1-U = 1.3 K Ω /M Ω
	L2-V = from 10K Ω to 2.5M Ω	L2-V = 1.1 K Ω /M Ω
	L3-W = from 10K Ω to 2.5M Ω	L3-W = 1.1 K Ω /M Ω
Measuring of the resistance between the terminals and the control board.	L1 red = 0 - 1 Ω	OK
	L1 red/white = 12 - 18 Ω	OK
	U yellow = 0 - 1 Ω	OK
	U yellow /white = 12 - 18 Ω	OK
	L2 blue = 0 - 1 Ω	OK
	L2 blue/white = 12 - 18 Ω	OK
	V grey = 0 - 1 Ω	OK
	V grey /white = 12 - 18 Ω	OK
	L3 green = 0 - 1 Ω	OK
	L3 green/white = 12 - 18 Ω	OK
	W brown = 0 - 1 Ω	OK
	W brown /white = 12 - 18 Ω	OK
Measurement of the resistance of the current transformer in parallel with the sensing resistor.	See table	L1: 20.8
	See table	L3: 20.8
Test the softstarter with lamps	Lights turn on according a ramp	OK
Test the operation of the softstarter with load (motor)	I empty: from 10 to 13A	I empty = 12 A
	Measure of the drop of the voltage between the input--output on control connectors (<1.8V)	L1-U = 0.1V
		L2-V = 0V
		L3-W = 0V
Adjustments of the display	G3.14: set up 4 G3.15: set up 30 G4.6: set up 5	
Check the fan/s	Proper running	OK
Test of the softstarter during one hour to the nominal load	Without faults	OK

CHECK LIST SOFT STARTER

Order No.	Reference	Serial No.
9503	V50210B	3009012216

VISUAL INSPECTION

Tests	Expected Values	Result
Verification of the good condition of the chassis	No damages	OK
Verification of the right finished of transformer	No damages	OK
Check that the welding of the transformer's resistor is correct	Welding is right	OK
Check the torque at the input screw of the thyristors	Correct Torque	OK
Check the torque at the output screw of the thyristors	Correct Torque	OK
Check the torque of the heatsink to the chassis	Correct Torque	OK
Check of the wires and wiring connections	Wiring Connections Correct	OK

FINAL TEST

Reviewed points	Expected Values	Result
Check the control wiring	OK	
Check the power wiring	OK	
Check the wiring connection	OK	
Measuring between the input and output terminals	L1-U = from 10K Ω to 2.5M Ω	L1-U = 1.2 K Ω /M Ω
	L2-V = from 10K Ω to 2.5M Ω	L2-V = 1.2 K Ω /M Ω
	L3-W = from 10K Ω to 2.5M Ω	L3-W = 1.2 K Ω /M Ω
Measuring of the resistance between the terminals and the control board.	L1 red = 0 - 1 Ω	OK
	L1 red/white = 12 - 18 Ω	OK
	U yellow = 0 - 1 Ω	OK
	U yellow /white = 12 - 18 Ω	OK
	L2 blue = 0 - 1 Ω	OK
	L2 blue/white = 12 - 18 Ω	OK
	V grey = 0 - 1 Ω	OK
	V grey /white = 12 - 18 Ω	OK
	L3 green = 0 - 1 Ω	OK
	L3 green/white = 12 - 18 Ω	OK
	W brown = 0 - 1 Ω	OK
	W brown /white = 12 - 18 Ω	OK
Measurement of the resistance of the current transformer in parallel with the sensing resistor.	See table	L1: 20.8
	See table	L3: 20.8
Test the softstarter with lamps	Lights turn on according a ramp	OK
Test the operation of the softstarter with load (motor)	I empty: from 10 to 13A	I empty = 12.7 A
	Measure of the drop of the voltage between the input--output on control connectors (<1.8V)	L1-U = 0.1V
		L2-V = 0V
		L3-W = 0.1V
Adjustments of the display	G3.14: set up 4 G3.15: set up 30 G4.6: set up 5	
Check the fan/s	Proper running	OK
Test of the softstarter during one hour to the nominal load	Without faults	OK

CHECK LIST SOFT STARTER

Order No.	Reference	Serial No.
9503	V50210B	3009012217

VISUAL INSPECTION

Tests	Expected Values	Result
Verification of the good condition of the chassis	No damages	OK
Verification of the right finished of transformer	No damages	OK
Check that the welding of the transformer's resistor is correct	Welding is right	OK
Check the torque at the input screw of the thyristors	Correct Torque	OK
Check the torque at the output screw of the thyristors	Correct Torque	OK
Check the torque of the heatsink to the chassis	Correct Torque	OK
Check of the wires and wiring connections	Wiring Connections Correct	OK

FINAL TEST

Reviewed points	Expected Values	Result
Check the control wiring	OK	
Check the power wiring	OK	
Check the wiring connection	OK	
Measuring between the input and output terminals	L1-U = from 10K Ω to 2.5M Ω	L1-U = 1.1 K Ω /M Ω
	L2-V = from 10K Ω to 2.5M Ω	L2-V = 1 K Ω /M Ω
	L3-W = from 10K Ω to 2.5M Ω	L3-W = 1.1 K Ω /M Ω
Measuring of the resistance between the terminals and the control board.	L1 red = 0 - 1 Ω	OK
	L1 red/white = 12 - 18 Ω	OK
	U yellow = 0 - 1 Ω	OK
	U yellow /white = 12 - 18 Ω	OK
	L2 blue = 0 - 1 Ω	OK
	L2 blue/white = 12 - 18 Ω	OK
	V grey = 0 - 1 Ω	OK
	V grey /white = 12 - 18 Ω	OK
	L3 green = 0 - 1 Ω	OK
	L3 green/white = 12 - 18 Ω	OK
	W brown = 0 - 1 Ω	OK
	W brown /white = 12 - 18 Ω	OK
Measurement of the resistance of the current transformer in parallel with the sensing resistor.	See table	L1: 20.8
	See table	L3: 20.8
Test the softstarter with lamps	Lights turn on according a ramp	OK
Test the operation of the softstarter with load (motor)	I empty: from 10 to 13A	I empty = 12.2 A
	Measure of the drop of the voltage between the input--output on control connectors (<1.8V)	L1-U = 0.1V
		L2-V = 0.1V
		L3-W = 0.1V
Adjustments of the display	G3.14: set up 4 G3.15: set up 30 G4.6: set up 5	
Check the fan/s	Proper running	OK
Test of the softstarter during one hour to the nominal load	Without faults	OK



CHECK LIST SOFT STARTER

Order No.	Reference	Serial No.
9503	V50210B	3009012218

VISUAL INSPECTION

Tests	Expected Values	Result
Verification of the good condition of the chassis	No damages	OK
Verification of the right finished of transformer	No damages	OK
Check that the welding of the transformer's resistor is correct	Welding is right	OK
Check the torque at the input screw of the thyristors	Correct Torque	OK
Check the torque at the output screw of the thyristors	Correct Torque	OK
Check the torque of the heatsink to the chassis	Correct Torque	OK
Check of the wires and wiring connections	Wiring Connections Correct	OK

FINAL TEST

Reviewed points	Expected Values	Result
Check the control wiring	OK	
Check the power wiring	OK	
Check the wiring connection	OK	
Measuring between the input and output terminals	L1-U = from 10K Ω to 2.5M Ω	L1-U = 1.2 K Ω /M Ω
	L2-V = from 10K Ω to 2.5M Ω	L2-V = 1.1 K Ω /M Ω
	L3-W = from 10K Ω to 2.5M Ω	L3-W = 1.1 K Ω /M Ω
Measuring of the resistance between the terminals and the control board.	L1 red = 0 - 1 Ω	OK
	L1 red/white = 12 - 18 Ω	OK
	U yellow = 0 - 1 Ω	OK
	U yellow /white = 12 - 18 Ω	OK
	L2 blue = 0 - 1 Ω	OK
	L2 blue/white = 12 - 18 Ω	OK
	V grey = 0 - 1 Ω	OK
	V grey /white = 12 - 18 Ω	OK
	L3 green = 0 - 1 Ω	OK
	L3 green/white = 12 - 18 Ω	OK
	W brown = 0 - 1 Ω	OK
	W brown /white = 12 - 18 Ω	OK
Measurement of the resistance of the current transformer in parallel with the sensing resistor.	See table	L1: 20.8
	See table	L3: 20.8
Test the softstarter with lamps	Lights turn on according a ramp	OK
Test the operation of the softstarter with load (motor)	I empty: from 10 to 13A	I empty = 12.2 A
	Measure of the drop of the voltage between the input--output on control connectors (<1.8V)	L1-U = 0.1V
		L2-V = 0.1V
		L3-W = 0.1V
Adjustments of the display	G3.14: set up 4 G3.15: set up 30 G4.6: set up 5	
Check the fan/s	Proper running	OK
Test of the softstarter during one hour to the nominal load	Without faults	OK

CHECK LIST SOFT STARTER

Order No.	Reference	Serial No.
9503	V50210B	3009012219

VISUAL INSPECTION

Tests	Expected Values	Result
Verification of the good condition of the chassis	No damages	OK
Verification of the right finished of transformer	No damages	OK
Check that the welding of the transformer's resistor is correct	Welding is right	OK
Check the torque at the input screw of the thyristors	Correct Torque	OK
Check the torque at the output screw of the thyristors	Correct Torque	OK
Check the torque of the heatsink to the chassis	Correct Torque	OK
Check of the wires and wiring connections	Wiring Connections Correct	OK

FINAL TEST

Reviewed points	Expected Values	Result
Check the control wiring	OK	
Check the power wiring	OK	
Check the wiring connection	OK	
Measuring between the input and output terminals	L1-U = from 10K Ω to 2.5M Ω	L1-U = 1.1 K Ω /M Ω
	L2-V = from 10K Ω to 2.5M Ω	L2-V = 1.1 K Ω /M Ω
	L3-W = from 10K Ω to 2.5M Ω	L3-W = 1.1 K Ω /M Ω
Measuring of the resistance between the terminals and the control board.	L1 red = 0 - 1 Ω	OK
	L1 red/white = 12 - 18 Ω	OK
	U yellow = 0 - 1 Ω	OK
	U yellow /white = 12 - 18 Ω	OK
	L2 blue = 0 - 1 Ω	OK
	L2 blue/white = 12 - 18 Ω	OK
	V grey = 0 - 1 Ω	OK
	V grey /white = 12 - 18 Ω	OK
	L3 green = 0 - 1 Ω	OK
	L3 green/white = 12 - 18 Ω	OK
	W brown = 0 - 1 Ω	OK
	W brown /white = 12 - 18 Ω	OK
Measurement of the resistance of the current transformer in parallel with the sensing resistor.	See table	L1: 20.8
	See table	L3: 20.8
Test the softstarter with lamps	Lights turn on according a ramp	OK
Test the operation of the softstarter with load (motor)	I empty: from 10 to 13A	I empty = 12.2 A
	Measure of the drop of the voltage between the input--output on control connectors (<1.8V)	L1-U = 0.1V
		L2-V = 0.1V
		L3-W = 0.1V
Adjustments of the display	G3.14: set up 4 G3.15: set up 30 G4.6: set up 5	
Check the fan/s	Proper running	OK
Test of the softstarter during one hour to the nominal load	Without faults	OK

CHECK LIST SOFT STARTER

Order No.	Reference	Serial No.
9457	V50250B	2909012082

VISUAL INSPECTION

Tests	Expected Values	Result
Verification of the good condition of the chassis	No damages	OK
Verification of the right finished of transformer	No damages	OK
Check that the welding of the transformer's resistor is correct	Welding is right	OK
Check the torque at the input screw of the thyristors	Correct Torque	OK
Check the torque at the output screw of the thyristors	Correct Torque	OK
Check the torque of the heatsink to the chassis	Correct Torque	OK
Check of the wires and wiring connections	Wiring Connections Correct	OK

FINAL TEST

Reviewed points	Expected Values	Result
Check the control wiring	OK	
Check the power wiring	OK	
Check the wiring connection	OK	
Measuring between the input and output terminals	L1-U = from 10K Ω to 2.5M Ω	L1-U = 2.6 K Ω /M Ω
	L2-V = from 10K Ω to 2.5M Ω	L2-V = 2.6 K Ω /M Ω
	L3-W = from 10K Ω to 2.5M Ω	L3-W = 2.6 K Ω /M Ω
Measuring of the resistance between the terminals and the control board.	L1 red = 0 - 1 Ω	OK
	L1 red/white = 12 - 18 Ω	OK
	U yellow = 0 - 1 Ω	OK
	U yellow /white = 12 - 18 Ω	OK
	L2 blue = 0 - 1 Ω	OK
	L2 blue/white = 12 - 18 Ω	OK
	V grey = 0 - 1 Ω	OK
	V grey /white = 12 - 18 Ω	OK
	L3 green = 0 - 1 Ω	OK
	L3 green/white = 12 - 18 Ω	OK
	W brown = 0 - 1 Ω	OK
	W brown /white = 12 - 18 Ω	OK
Measurement of the resistance of the current transformer in parallel with the sensing resistor.	See table	L1: 17.7
	See table	L3: 17.6
Test the softstarter with lamps	Lights turn on according a ramp	OK
Test the operation of the softstarter with load (motor)	I empty: from 10 to 13A	I empty = 12.7 A
	Measure of the drop of the voltage between the input--output on control connectors (<1.8V)	L1-U = 0V
		L2-V = 0V
		L3-W = 0V
Adjustments of the display	G3.14: set up 4 G3.15: set up 30 G4.6: set up 5	
Check the fan/s	Proper running	OK
Test of the softstarter during one hour to the nominal load	Without faults	OK

CHECK LIST SOFT STARTER

Order No.	Reference	Serial No.
9457	V50250B	2909012082

VISUAL INSPECTION

Tests	Expected Values	Result
Verification of the good condition of the chassis	No damages	OK
Verification of the right finished of transformer	No damages	OK
Check that the welding of the transformer's resistor is correct	Welding is right	OK
Check the torque at the input screw of the thyristors	Correct Torque	OK
Check the torque at the output screw of the thyristors	Correct Torque	OK
Check the torque of the heatsink to the chassis	Correct Torque	OK
Check of the wires and wiring connections	Wiring Connections Correct	OK

FINAL TEST

Reviewed points	Expected Values	Result
Check the control wiring	OK	
Check the power wiring	OK	
Check the wiring connection	OK	
Measuring between the input and output terminals	L1-U = from 10K Ω to 2.5M Ω	L1-U = 2.6 K Ω /M Ω
	L2-V = from 10K Ω to 2.5M Ω	L2-V = 2.6 K Ω /M Ω
	L3-W = from 10K Ω to 2.5M Ω	L3-W = 2.6 K Ω /M Ω
Measuring of the resistance between the terminals and the control board.	L1 red = 0 - 1 Ω	OK
	L1 red/white = 12 - 18 Ω	OK
	U yellow = 0 - 1 Ω	OK
	U yellow /white = 12 - 18 Ω	OK
	L2 blue = 0 - 1 Ω	OK
	L2 blue/white = 12 - 18 Ω	OK
	V grey = 0 - 1 Ω	OK
	V grey /white = 12 - 18 Ω	OK
	L3 green = 0 - 1 Ω	OK
	L3 green/white = 12 - 18 Ω	OK
	W brown = 0 - 1 Ω	OK
	W brown /white = 12 - 18 Ω	OK
Measurement of the resistance of the current transformer in parallel with the sensing resistor.	See table	L1: 17.7
	See table	L3: 17.6
Test the softstarter with lamps	Lights turn on according a ramp	OK
Test the operation of the softstarter with load (motor)	I empty: from 10 to 13A	I empty = 12.7 A
	Measure of the drop of the voltage between the input--output on control connectors (<1.8V)	L1-U = 0V
		L2-V = 0V
		L3-W = 0V
Adjustments of the display	G3.14: set up 4 G3.15: set up 30 G4.6: set up 5	
Check the fan/s	Proper running	OK
Test of the softstarter during one hour to the nominal load	Without faults	OK

CHECK LIST SOFT STARTER

Order No.	Reference	Serial No.
9457	V50250B	2909012086

VISUAL INSPECTION

Tests	Expected Values	Result
Verification of the good condition of the chassis	No damages	OK
Verification of the right finished of transformer	No damages	OK
Check that the welding of the transformer's resistor is correct	Welding is right	OK
Check the torque at the input screw of the thyristors	Correct Torque	OK
Check the torque at the output screw of the thyristors	Correct Torque	OK
Check the torque of the heatsink to the chassis	Correct Torque	OK
Check of the wires and wiring connections	Wiring Connections Correct	OK

FINAL TEST

Reviewed points	Expected Values	Result
Check the control wiring	OK	
Check the power wiring	OK	
Check the wiring connection	OK	
Measuring between the input and output terminals	L1-U = from 10K Ω to 2.5M Ω	L1-U = 1110 K Ω /M Ω
	L2-V = from 10K Ω to 2.5M Ω	L2-V = 1100 K Ω /M Ω
	L3-W = from 10K Ω to 2.5M Ω	L3-W = 1100 K Ω /M Ω
Measuring of the resistance between the terminals and the control board.	L1 red = 0 - 1 Ω	OK
	L1 red/white = 12 - 18 Ω	OK
	U yellow = 0 - 1 Ω	OK
	U yellow /white = 12 - 18 Ω	OK
	L2 blue = 0 - 1 Ω	OK
	L2 blue/white = 12 - 18 Ω	OK
	V grey = 0 - 1 Ω	OK
	V grey /white = 12 - 18 Ω	OK
	L3 green = 0 - 1 Ω	OK
	L3 green/white = 12 - 18 Ω	OK
	W brown = 0 - 1 Ω	OK
	W brown /white = 12 - 18 Ω	OK
Measurement of the resistance of the current transformer in parallel with the sensing resistor.	See table	L1: 17.7
	See table	L3: 17.7
Test the softstarter with lamps	Lights turn on according a ramp	OK
Test the operation of the softstarter with load (motor)	I empty: from 10 to 13A	I empty = 12 A
	Measure of the drop of the voltage between the input--output on control connectors (<1.8V)	L1-U = 0.1V
		L2-V = 0.1V
		L3-W = 0.1V
Adjustments of the display	G3.14: set up 4 G3.15: set up 30 G4.6: set up 5	
Check the fan/s	Proper running	OK
Test of the softstarter during one hour to the nominal load	Without faults	OK



CHECK LIST SOFT STARTER

Order No.	Reference	Serial No.
9457	V50250B	2909012087

VISUAL INSPECTION

Tests	Expected Values	Result
Verification of the good condition of the chassis	No damages	OK
Verification of the right finished of transformer	No damages	OK
Check that the welding of the transformer's resistor is correct	Welding is right	OK
Check the torque at the input screw of the thyristors	Correct Torque	OK
Check the torque at the output screw of the thyristors	Correct Torque	OK
Check the torque of the heatsink to the chassis	Correct Torque	OK
Check of the wires and wiring connections	Wiring Connections Correct	OK

FINAL TEST

Reviewed points	Expected Values	Result
Check the control wiring	OK	
Check the power wiring	OK	
Check the wiring connection	OK	
Measuring between the input and output terminals	L1-U = from 10K Ω to 2.5M Ω	L1-U = 1.1 K Ω /M Ω
	L2-V = from 10K Ω to 2.5M Ω	L2-V = 1.1 K Ω /M Ω
	L3-W = from 10K Ω to 2.5M Ω	L3-W = 1.1 K Ω /M Ω
Measuring of the resistance between the terminals and the control board.	L1 red = 0 - 1 Ω	OK
	L1 red/white = 12 - 18 Ω	OK
	U yellow = 0 - 1 Ω	OK
	U yellow /white = 12 - 18 Ω	OK
	L2 blue = 0 - 1 Ω	OK
	L2 blue/white = 12 - 18 Ω	OK
	V grey = 0 - 1 Ω	OK
	V grey /white = 12 - 18 Ω	OK
	L3 green = 0 - 1 Ω	OK
	L3 green/white = 12 - 18 Ω	OK
	W brown = 0 - 1 Ω	OK
	W brown /white = 12 - 18 Ω	OK
Measurement of the resistance of the current transformer in parallel with the sensing resistor.	See table	L1: 17.7
	See table	L3: 17.7
Test the softstarter with lamps	Lights turn on according a ramp	OK
Test the operation of the softstarter with load (motor)	I empty: from 10 to 13A	I empty = 12.4 A
	Measure of the drop of the voltage between the input--output on control connectors (<1.8V)	L1-U = 0.1V
		L2-V = 0V
		L3-W = 0.1V
Adjustments of the display	G3.14: set up 4 G3.15: set up 30 G4.6: set up 5	
Check the fan/s	Proper running	OK
Test of the softstarter during one hour to the nominal load	Without faults	OK

CHECK LIST SOFT STARTER

Order No.	Reference	Serial No.
9457	V50250B	2909012104

VISUAL INSPECTION

Tests	Expected Values	Result
Verification of the good condition of the chassis	No damages	OK
Verification of the right finished of transformer	No damages	OK
Check that the welding of the transformer's resistor is correct	Welding is right	OK
Check the torque at the input screw of the thyristors	Correct Torque	OK
Check the torque at the output screw of the thyristors	Correct Torque	OK
Check the torque of the heatsink to the chassis	Correct Torque	OK
Check of the wires and wiring connections	Wiring Connections Correct	OK

FINAL TEST

Reviewed points	Expected Values	Result
Check the control wiring	OK	
Check the power wiring	OK	
Check the wiring connection	OK	
Measuring between the input and output terminals	L1-U = from 10K Ω to 2.5M Ω	L1-U = 1.1 K Ω /M Ω
	L2-V = from 10K Ω to 2.5M Ω	L2-V = 1.1 K Ω /M Ω
	L3-W = from 10K Ω to 2.5M Ω	L3-W = 1.1 K Ω /M Ω
Measuring of the resistance between the terminals and the control board.	L1 red = 0 - 1 Ω	OK
	L1 red/white = 12 - 18 Ω	OK
	U yellow = 0 - 1 Ω	OK
	U yellow /white = 12 - 18 Ω	OK
	L2 blue = 0 - 1 Ω	OK
	L2 blue/white = 12 - 18 Ω	OK
	V grey = 0 - 1 Ω	OK
	V grey /white = 12 - 18 Ω	OK
	L3 green = 0 - 1 Ω	OK
	L3 green/white = 12 - 18 Ω	OK
	W brown = 0 - 1 Ω	OK
	W brown /white = 12 - 18 Ω	OK
Measurement of the resistance of the current transformer in parallel with the sensing resistor.	See table	L1: 17.6
	See table	L3: 17.7
Test the softstarter with lamps	Lights turn on according a ramp	OK
Test the operation of the softstarter with load (motor)	I empty: from 10 to 13A	I empty = 12.4 A
	Measure of the drop of the voltage between the input--output on control connectors (<1.8V)	L1-U = 0V
		L2-V = 0V
		L3-W = 0V
Adjustments of the display	G3.14: set up 4 G3.15: set up 30 G4.6: set up 5	
Check the fan/s	Proper running	OK
Test of the softstarter during one hour to the nominal load	Without faults	OK



CHECK LIST SOFT STARTER

Order No.	Reference	Serial No.
9457	V50250B	2909012105

VISUAL INSPECTION

Tests	Expected Values	Result
Verification of the good condition of the chassis	No damages	OK
Verification of the right finished of transformer	No damages	OK
Check that the welding of the transformer's resistor is correct	Welding is right	OK
Check the torque at the input screw of the thyristors	Correct Torque	OK
Check the torque at the output screw of the thyristors	Correct Torque	OK
Check the torque of the heatsink to the chassis	Correct Torque	OK
Check of the wires and wiring connections	Wiring Connections Correct	OK

FINAL TEST

Reviewed points	Expected Values	Result
Check the control wiring	OK	
Check the power wiring	OK	
Check the wiring connection	OK	
Measuring between the input and output terminals	L1-U = from 10K Ω to 2.5M Ω	L1-U = 1.1 K Ω /M Ω
	L2-V = from 10K Ω to 2.5M Ω	L2-V = 1.1 K Ω /M Ω
	L3-W = from 10K Ω to 2.5M Ω	L3-W = 1.1 K Ω /M Ω
Measuring of the resistance between the terminals and the control board.	L1 red = 0 - 1 Ω	OK
	L1 red/white = 12 - 18 Ω	OK
	U yellow = 0 - 1 Ω	OK
	U yellow /white = 12 - 18 Ω	OK
	L2 blue = 0 - 1 Ω	OK
	L2 blue/white = 12 - 18 Ω	OK
	V grey = 0 - 1 Ω	OK
	V grey /white = 12 - 18 Ω	OK
	L3 green = 0 - 1 Ω	OK
	L3 green/white = 12 - 18 Ω	OK
	W brown = 0 - 1 Ω	OK
	W brown /white = 12 - 18 Ω	OK
Measurement of the resistance of the current transformer in parallel with the sensing resistor.	See table	L1: 17.7
	See table	L3: 17.7
Test the softstarter with lamps	Lights turn on according a ramp	OK
Test the operation of the softstarter with load (motor)	I empty: from 10 to 13A	I empty = 12.8 A
	Measure of the drop of the voltage between the input--output on control connectors (<1.8V)	L1-U = 0.1V
		L2-V = 0.1V
		L3-W = 0.1V
Adjustments of the display	G3.14: set up 4 G3.15: set up 30 G4.6: set up 5	
Check the fan/s	Proper running	OK
Test of the softstarter during one hour to the nominal load	Without faults	OK

CHECK LIST SOFT STARTER

Order No.	Reference	Serial No.
9458	V50110B	2909012083

VISUAL INSPECTION

Tests	Expected Values	Result
Verification of the good condition of the chassis	No damages	OK
Verification of the right finished right of transformer	No damages	OK
Check that the welding of the transformer's resistor is correct	Welding is right	OK
Check the torque at the input screw of the thyristors	Correct Torque	OK
Check the torque at the output screw of the thyristors	Correct Torque	OK
Check the torque of the heatsink to the chassis	Correct Torque	OK
Check of the wires and wiring connections	Wiring Connections Correct	OK

FINAL TEST

Reviewed points	Expected Values	Result
Check the control wiring	OK	
Check the power wiring	OK	
Check the wiring connection	OK	
Measuring between the input and output terminals	L1-U = from 10K Ω to 2.5M Ω	L1-U = 2.2 K Ω /M Ω
	L2-V = from 10K Ω to 2.5M Ω	L2-V = 2.3 K Ω /M Ω
	L3-W = from 10K Ω to 2.5M Ω	L3-W = 2.3 K Ω /M Ω
Measuring of the resistance between the terminals and the control board.	L1 red = 0 - 1 Ω	OK
	L1 red/white = 12 - 18 Ω	OK
	U yellow = 0 - 1 Ω	OK
	U yellow /white = 12 - 18 Ω	OK
	L2 blue = 0 - 1 Ω	OK
	L2 blue/white = 12 - 18 Ω	OK
	V grey = 0 - 1 Ω	OK
	V grey /white = 12 - 18 Ω	OK
	L3 green = 0 - 1 Ω	OK
	L3 green/white = 12 - 18 Ω	OK
	W brown = 0 - 1 Ω	OK
	W brown /white = 12 - 18 Ω	OK
Measurement of the resistance of the current transformer in parallel with the sensing resistor.	See table	L1:39.8
	See table	L3:39.9
Test the softstarter with lamps	Lights turn on according a ramp	OK
Test the operation of the softstarter with load (motor)	I empty: from 10 to 13A	I empty = 12.1 A
	Measure of the drop of the voltage between the input--output on control connectors (<1.8V)	L1-U = 0.1 V
		L2-V = 0.0 V
		L3-W = 0.1 V
Adjustments of the display	G3.14: set up 4 G3.15: set up 30 G4.6: set up 5	OK
Check the fan/s	Proper running	OK
Test of the softstarter during one hour to the nominal load	Without faults	OK



CHECK LIST SOFT STARTER

Order No.	Reference	Serial No.
9458	V50110B	2909012095

VISUAL INSPECTION

Tests	Expected Values	Result
Verification of the good condition of the chassis	No damages	OK
Verification of the right finished right of transformer	No damages	OK
Check that the welding of the transformer's resistor is correct	Welding is right	OK
Check the torque at the input screw of the thyristors	Correct Torque	OK
Check the torque at the output screw of the thyristors	Correct Torque	OK
Check the torque of the heatsink to the chassis	Correct Torque	OK
Check of the wires and wiring connections	Wiring Connections Correct	OK

FINAL TEST

Reviewed points	Expected Values	Result
Check the control wiring	OK	
Check the power wiring	OK	
Check the wiring connection	OK	
Measuring between the input and output terminals	L1-U = from 10K Ω to 2.5M Ω	L1-U = 1.2 K Ω /M Ω
	L2-V = from 10K Ω to 2.5M Ω	L2-V = 1.1 K Ω /M Ω
	L3-W = from 10K Ω to 2.5M Ω	L3-W = 1.1 K Ω /M Ω
Measuring of the resistance between the terminals and the control board.	L1 red = 0 - 1 Ω	OK
	L1 red/white = 12 - 18 Ω	OK
	U yellow =0 - 1 Ω	OK
	U yellow /white =12 - 18 Ω	OK
	L2 blue = 0 - 1 Ω	OK
	L2 blue/white= 12 - 18 Ω	OK
	V grey =0 - 1 Ω	OK
	V grey /white =12 - 18 Ω	OK
	L3 green = 0 - 1 Ω	OK
	L3 green/white= 12 - 18 Ω	OK
	W brown =0 - 1 Ω	OK
	W brown /white =12 - 18 Ω	OK
Measurement of the resistance of the current transformer in parallel with the sensing resistor.	See table	L1:39.7
	See table	L3: 39.7
Test the softstarter with lamps	Lights turn on according a ramp	OK
Test the operation of the softstarter with load (motor)	I empty: from10 to 13A	I empty=12.2 A
	Measure of the drop of the voltage between the input--output on control connectors (<1.8V)	L1-U= 0.0 V
		L2-V= 0.0 V
		L3-W= 0.0 V
Adjustments of the display	G3.14: set up 4 G3.15: set up 30 G4.6: set up 5	OK
Check the fan/s	Proper running	OK
Test of the softstarter during one hour to the nominal load	Without faults	OK



CHECK LIST SOFT STARTER

Order No.	Reference	Serial No.
9458	V50110B	2909012096

VISUAL INSPECTION

Tests	Expected Values	Result
Verification of the good condition of the chassis	No damages	OK
Verification of the right finished right of transformer	No damages	OK
Check that the welding of the transformer's resistor is correct	Welding is right	OK
Check the torque at the input screw of the thyristors	Correct Torque	OK
Check the torque at the output screw of the thyristors	Correct Torque	OK
Check the torque of the heatsink to the chassis	Correct Torque	OK
Check of the wires and wiring connections	Wiring Connections Correct	OK

FINAL TEST

Reviewed points	Expected Values	Result
Check the control wiring	OK	
Check the power wiring	OK	
Check the wiring connection	OK	
Measuring between the input and output terminals	L1-U = from 10K Ω to 2.5M Ω	L1-U = 1.1 K Ω /M Ω
	L2-V = from 10K Ω to 2.5M Ω	L2-V = 1.4 K Ω /M Ω
	L3-W = from 10K Ω to 2.5M Ω	L3-W = 1.2 K Ω /M Ω
Measuring of the resistance between the terminals and the control board.	L1 red = 0 - 1 Ω	OK
	L1 red/white = 12 - 18 Ω	OK
	U yellow = 0 - 1 Ω	OK
	U yellow /white = 12 - 18 Ω	OK
	L2 blue = 0 - 1 Ω	OK
	L2 blue/white = 12 - 18 Ω	OK
	V grey = 0 - 1 Ω	OK
	V grey /white = 12 - 18 Ω	OK
	L3 green = 0 - 1 Ω	OK
	L3 green/white = 12 - 18 Ω	OK
	W brown = 0 - 1 Ω	OK
	W brown /white = 12 - 18 Ω	OK
Measurement of the resistance of the current transformer in parallel with the sensing resistor.	See table	L1:39.6
	See table	L3:39.6
Test the softstarter with lamps	Lights turn on according a ramp	OK
Test the operation of the softstarter with load (motor)	I empty: from 10 to 13A	I empty = 12.6 A
	Measure of the drop of the voltage between the input--output on control connectors (<1.8V)	L1-U = 0.1 V
		L2-V = 0 V
		L3-W = 0 V
Adjustments of the display	G3.14: set up 4 G3.15: set up 30 G4.6: set up 5	OK
Check the fan/s	Proper running	OK
Test of the softstarter during one hour to the nominal load	Without faults	OK



CHECK LIST SOFT STARTER

Order No.	Reference	Serial No.
9458	V50110B	2909012097

VISUAL INSPECTION

Tests	Expected Values	Result
Verification of the good condition of the chassis	No damages	OK
Verification of the right finished right of transformer	No damages	OK
Check that the welding of the transformer's resistor is correct	Welding is right	OK
Check the torque at the input screw of the thyristors	Correct Torque	OK
Check the torque at the output screw of the thyristors	Correct Torque	OK
Check the torque of the heatsink to the chassis	Correct Torque	OK
Check of the wires and wiring connections	Wiring Connections Correct	OK

FINAL TEST

Reviewed points	Expected Values	Result
Check the control wiring	OK	
Check the power wiring	OK	
Check the wiring connection	OK	
Measuring between the input and output terminals	L1-U = from 10K Ω to 2.5M Ω	L1-U = 2.3 K Ω /M Ω
	L2-V = from 10K Ω to 2.5M Ω	L2-V = 2.3 K Ω /M Ω
	L3-W = from 10K Ω to 2.5M Ω	L3-W = 2.4 K Ω /M Ω
Measuring of the resistance between the terminals and the control board.	L1 red = 0 - 1 Ω	OK
	L1 red/white = 12 - 18 Ω	OK
	U yellow = 0 - 1 Ω	OK
	U yellow /white = 12 - 18 Ω	OK
	L2 blue = 0 - 1 Ω	OK
	L2 blue/white = 12 - 18 Ω	OK
	V grey = 0 - 1 Ω	OK
	V grey /white = 12 - 18 Ω	OK
	L3 green = 0 - 1 Ω	OK
	L3 green/white = 12 - 18 Ω	OK
	W brown = 0 - 1 Ω	OK
	W brown /white = 12 - 18 Ω	OK
Measurement of the resistance of the current transformer in parallel with the sensing resistor.	See table	L1:39.6
	See table	L3:39.7
Test the softstarter with lamps	Lights turn on according a ramp	OK
Test the operation of the softstarter with load (motor)	I empty: from 10 to 13A	I empty = 12.9 A
	Measure of the drop of the voltage between the input--output on control connectors (<1.8V)	L1-U = 0 V
		L2-V = 0 V
		L3-W = 0 V
Adjustments of the display	G3.14: set up 4 G3.15: set up 30 G4.6: set up 5	OK
Check the fan/s	Proper running	OK
Test of the softstarter during one hour to the nominal load	Without faults	OK



CHECK LIST SOFT STARTER

Order No.	Reference	Serial No.
9460	V50145B	2909012085

VISUAL INSPECTION

Tests	Expected Values	Result
Verification of the good condition of the chassis	No damages	OK
Verification of the right finished right of transformer	No damages	OK
Check that the welding of the transformer's resistor is correct	Welding is right	OK
Check the torque at the input screw of the thyristors	Correct Torque	OK
Check the torque at the output screw of the thyristors	Correct Torque	OK
Check the torque of the heatsink to the chassis	Correct Torque	OK
Check of the wires and wiring connections	Wiring Connections Correct	OK

FINAL TEST

Reviewed points	Expected Values	Result
Check the control wiring	OK	
Check the power wiring	OK	
Check the wiring connection	OK	
Measuring between the input and output terminals	L1-U = from 10K Ω to 2.5M Ω	L1-U = 1.0 K Ω /M Ω
	L2-V = from 10K Ω to 2.5M Ω	L2-V = 2.2 K Ω /M Ω
	L3-W = from 10K Ω to 2.5M Ω	L3-W = 2.2 K Ω /M Ω
Measuring of the resistance between the terminals and the control board.	L1 red = 0 - 1 Ω	OK
	L1 red/white = 12 - 18 Ω	OK
	U yellow = 0 - 1 Ω	OK
	U yellow /white = 12 - 18 Ω	OK
	L2 blue = 0 - 1 Ω	OK
	L2 blue/white = 12 - 18 Ω	OK
	V grey = 0 - 1 Ω	OK
	V grey /white = 12 - 18 Ω	OK
	L3 green = 0 - 1 Ω	OK
	L3 green/white = 12 - 18 Ω	OK
	W brown = 0 - 1 Ω	OK
	W brown /white = 12 - 18 Ω	OK
Measurement of the resistance of the current transformer in parallel with the sensing resistor.	See table	L1:30.6
	See table	L3:30.7
Test the softstarter with lamps	Lights turn on according a ramp	OK
Test the operation of the softstarter with load (motor)	I empty: from 10 to 13A	I empty = 13.0 A
	Measure of the drop of the voltage between the input--output on control connectors (<1.8V)	L1-U = 0.1 V
		L2-V = 0.1 V
		L3-W = 0.1 V
Adjustments of the display	G3.14: set up 4 G3.15: set up 30 G4.6: set up 5	OK
Check the fan/s	Proper running	OK
Test of the softstarter during one hour to the nominal load	Without faults	OK



CHECK LIST SOFT STARTER

Order No.	Reference	Serial No.
9477	V50145B	2909012113

VISUAL INSPECTION

Tests	Expected Values	Result
Verification of the good condition of the chassis	No damages	OK
Verification of the right finished right of transformer	No damages	OK
Check that the welding of the transformer's resistor is correct	Welding is right	OK
Check the torque at the input screw of the thyristors	Correct Torque	OK
Check the torque at the output screw of the thyristors	Correct Torque	OK
Check the torque of the heatsink to the chassis	Correct Torque	OK
Check of the wires and wiring connections	Wiring Connections Correct	OK

FINAL TEST

Reviewed points	Expected Values	Result
Check the control wiring	OK	
Check the power wiring	OK	
Check the wiring connection	OK	
Measuring between the input and output terminals	L1-U = from 10KΩ to 2.5MΩ	L1-U = 1.2 KΩ /MΩ
	L2-V = from 10KΩ to 2.5MΩ	L2-V = 1.2 KΩ /MΩ
	L3-W = from 10KΩ to 2.5MΩ	L3-W = 1.2 KΩ /MΩ
Measuring of the resistance between the terminals and the control board.	L1 red = 0 - 1 Ω	OK
	L1 red/white = 12 - 18 Ω	OK
	U yellow = 0 - 1 Ω	OK
	U yellow /white = 12 - 18 Ω	OK
	L2 blue = 0 - 1 Ω	OK
	L2 blue/white = 12 - 18 Ω	OK
	V grey = 0 - 1 Ω	OK
	V grey /white = 12 - 18 Ω	OK
	L3 green = 0 - 1 Ω	OK
	L3 green/white = 12 - 18 Ω	OK
	W brown = 0 - 1 Ω	OK
	W brown /white = 12 - 18 Ω	OK
Measurement of the resistance of the current transformer in parallel with the sensing resistor.	See table	L1:30.6
	See table	L3:30.7
Test the softstarter with lamps	Lights turn on according a ramp	OK
Test the operation of the softstarter with load (motor)	I empty: from 10 to 13A	I empty = 12.2 A
	Measure of the drop of the voltage between the input--output on control connectors (<1.8V)	L1-U = 0 V
		L2-V = 0 V
		L3-W = 0 V
Adjustments of the display	G3.14: set up 4 G3.15: set up 30 G4.6: set up 5	OK
Check the fan/s	Proper running	OK
Test of the softstarter during one hour to the nominal load	Without faults	OK



CHECK LIST SOFT STARTER

Order No.	Reference	Serial No.
9477	V50145B	2909012114

VISUAL INSPECTION

Tests	Expected Values	Result
Verification of the good condition of the chassis	No damages	OK
Verification of the right finished right of transformer	No damages	OK
Check that the welding of the transformer's resistor is correct	Welding is right	OK
Check the torque at the input screw of the thyristors	Correct Torque	OK
Check the torque at the output screw of the thyristors	Correct Torque	OK
Check the torque of the heatsink to the chassis	Correct Torque	OK
Check of the wires and wiring connections	Wiring Connections Correct	OK

FINAL TEST

Reviewed points	Expected Values	Result
Check the control wiring	OK	
Check the power wiring	OK	
Check the wiring connection	OK	
Measuring between the input and output terminals	L1-U = from 10K Ω to 2.5M Ω	L1-U = 1144 K Ω /M Ω
	L2-V = from 10K Ω to 2.5M Ω	L2-V = 1160 K Ω /M Ω
	L3-W = from 10K Ω to 2.5M Ω	L3-W = 1125 K Ω /M Ω
Measuring of the resistance between the terminals and the control board.	L1 red = 0 - 1 Ω	OK
	L1 red/white = 12 - 18 Ω	OK
	U yellow = 0 - 1 Ω	OK
	U yellow /white = 12 - 18 Ω	OK
	L2 blue = 0 - 1 Ω	OK
	L2 blue/white = 12 - 18 Ω	OK
	V grey = 0 - 1 Ω	OK
	V grey /white = 12 - 18 Ω	OK
	L3 green = 0 - 1 Ω	OK
	L3 green/white = 12 - 18 Ω	OK
	W brown = 0 - 1 Ω	OK
	W brown /white = 12 - 18 Ω	OK
Measurement of the resistance of the current transformer in parallel with the sensing resistor.	See table	L1:30.6
	See table	L3:30.6
Test the softstarter with lamps	Lights turn on according a ramp	OK
Test the operation of the softstarter with load (motor)	I empty: from 10 to 13A	I empty = 12.3 A
	Measure of the drop of the voltage between the input--output on control connectors (<1.8V)	L1-U = 0 V
		L2-V = 0 V
		L3-W = 0 V
Adjustments of the display	G3.14: set up 4 G3.15: set up 30 G4.6: set up 5	OK
Check the fan/s	Proper running	OK
Test of the softstarter during one hour to the nominal load	Without faults	OK



CHECK LIST SOFT STARTER

Order No.	Reference	Serial No.
9477	V50145B	2909012115

VISUAL INSPECTION

Tests	Expected Values	Result
Verification of the good condition of the chassis	No damages	OK
Verification of the right finished right of transformer	No damages	OK
Check that the welding of the transformer's resistor is correct	Welding is right	OK
Check the torque at the input screw of the thyristors	Correct Torque	OK
Check the torque at the output screw of the thyristors	Correct Torque	OK
Check the torque of the heatsink to the chassis	Correct Torque	OK
Check of the wires and wiring connections	Wiring Connections Correct	OK

FINAL TEST

Reviewed points	Expected Values	Result
Check the control wiring	OK	
Check the power wiring	OK	
Check the wiring connection	OK	
Measuring between the input and output terminals	L1-U = from 10K Ω to 2.5M Ω	L1-U = 1.1 K Ω /M Ω
	L2-V = from 10K Ω to 2.5M Ω	L2-V = 1.1 K Ω /M Ω
	L3-W = from 10K Ω to 2.5M Ω	L3-W = 1.1 K Ω /M Ω
Measuring of the resistance between the terminals and the control board.	L1 red = 0 - 1 Ω	OK
	L1 red/white = 12 - 18 Ω	OK
	U yellow = 0 - 1 Ω	OK
	U yellow /white = 12 - 18 Ω	OK
	L2 blue = 0 - 1 Ω	OK
	L2 blue/white = 12 - 18 Ω	OK
	V grey = 0 - 1 Ω	OK
	V grey /white = 12 - 18 Ω	OK
	L3 green = 0 - 1 Ω	OK
	L3 green/white = 12 - 18 Ω	OK
	W brown = 0 - 1 Ω	OK
	W brown /white = 12 - 18 Ω	OK
Measurement of the resistance of the current transformer in parallel with the sensing resistor.	See table	L1:30.6
	See table	L3:30.7
Test the softstarter with lamps	Lights turn on according a ramp	OK
Test the operation of the softstarter with load (motor)	I empty: from 10 to 13A	I empty = 12.1 A
	Measure of the drop of the voltage between the input--output on control connectors (<1.8V)	L1-U = 0 V
		L2-V = 0 V
		L3-W = 0 V
Adjustments of the display	G3.14: set up 4 G3.15: set up 30 G4.6: set up 5	OK
Check the fan/s	Proper running	OK
Test of the softstarter during one hour to the nominal load	Without faults	OK

CHECK LIST SOFT STARTER

Order No.	Reference	Serial No.
9477	V50145B	2909012129

VISUAL INSPECTION

Tests	Expected Values	Result
Verification of the good condition of the chassis	No damages	OK
Verification of the right finished right of transformer	No damages	OK
Check that the welding of the transformer's resistor is correct	Welding is right	OK
Check the torque at the input screw of the thyristors	Correct Torque	OK
Check the torque at the output screw of the thyristors	Correct Torque	OK
Check the torque of the heatsink to the chassis	Correct Torque	OK
Check of the wires and wiring connections	Wiring Connections Correct	OK

FINAL TEST

Reviewed points	Expected Values	Result
Check the control wiring	OK	
Check the power wiring	OK	
Check the wiring connection	OK	
Measuring between the input and output terminals	L1-U = from 10K Ω to 2.5M Ω	L1-U = 1.1 K Ω /M Ω
	L2-V = from 10K Ω to 2.5M Ω	L2-V = 1.1 K Ω /M Ω
	L3-W = from 10K Ω to 2.5M Ω	L3-W = 1.1 K Ω /M Ω
Measuring of the resistance between the terminals and the control board.	L1 red = 0 - 1 Ω	OK
	L1 red/white = 12 - 18 Ω	OK
	U yellow = 0 - 1 Ω	OK
	U yellow /white = 12 - 18 Ω	OK
	L2 blue = 0 - 1 Ω	OK
	L2 blue/white = 12 - 18 Ω	OK
	V grey = 0 - 1 Ω	OK
	V grey /white = 12 - 18 Ω	OK
	L3 green = 0 - 1 Ω	OK
	L3 green/white = 12 - 18 Ω	OK
	W brown = 0 - 1 Ω	OK
	W brown /white = 12 - 18 Ω	OK
Measurement of the resistance of the current transformer in parallel with the sensing resistor.	See table	L1:30.7
	See table	L3:30.7
Test the softstarter with lamps	Lights turn on according a ramp	OK
Test the operation of the softstarter with load (motor)	I empty: from 10 to 13A	I empty = 13.7 A
	Measure of the drop of the voltage between the input--output on control connectors (<1.8V)	L1-U = 0 V
		L2-V = 0.1 V
		L3-W = 0 V
Adjustments of the display	G3.14: set up 4 G3.15: set up 30 G4.6: set up 5	OK
Check the fan/s	Proper running	OK
Test of the softstarter during one hour to the nominal load	Without faults	OK



CHECK LIST SOFT STARTER

Order No.	Reference	Serial No.
9477	V50145B	2909012130

VISUAL INSPECTION

Tests	Expected Values	Result
Verification of the good condition of the chassis	No damages	OK
Verification of the right finished right of transformer	No damages	OK
Check that the welding of the transformer's resistor is correct	Welding is right	OK
Check the torque at the input screw of the thyristors	Correct Torque	OK
Check the torque at the output screw of the thyristors	Correct Torque	OK
Check the torque of the heatsink to the chassis	Correct Torque	OK
Check of the wires and wiring connections	Wiring Connections Correct	OK

FINAL TEST

Reviewed points	Expected Values	Result
Check the control wiring	OK	
Check the power wiring	OK	
Check the wiring connection	OK	
Measuring between the input and output terminals	L1-U = from 10K Ω to 2.5M Ω	L1-U = 1.1 K Ω /M Ω
	L2-V = from 10K Ω to 2.5M Ω	L2-V = 1.1 K Ω /M Ω
	L3-W = from 10K Ω to 2.5M Ω	L3-W = 1.1 K Ω /M Ω
Measuring of the resistance between the terminals and the control board.	L1 red = 0 - 1 Ω	OK
	L1 red/white = 12 - 18 Ω	OK
	U yellow = 0 - 1 Ω	OK
	U yellow /white = 12 - 18 Ω	OK
	L2 blue = 0 - 1 Ω	OK
	L2 blue/white = 12 - 18 Ω	OK
	V grey = 0 - 1 Ω	OK
	V grey /white = 12 - 18 Ω	OK
	L3 green = 0 - 1 Ω	OK
	L3 green/white = 12 - 18 Ω	OK
	W brown = 0 - 1 Ω	OK
	W brown /white = 12 - 18 Ω	OK
Measurement of the resistance of the current transformer in parallel with the sensing resistor.	See table	L1:30.6
	See table	L3:30.8
Test the softstarter with lamps	Lights turn on according a ramp	OK
Test the operation of the softstarter with load (motor)	I empty: from 10 to 13A	I empty = 13.3 A
	Measure of the drop of the voltage between the input--output on control connectors (<1.8V)	L1-U = 0 V
		L2-V = 0 V
		L3-W = 0 V
Adjustments of the display	G3.14: set up 4 G3.15: set up 30 G4.6: set up 5	OK
Check the fan/s	Proper running	OK
Test of the softstarter during one hour to the nominal load	Without faults	OK



CHECK LIST SOFT STARTER

Order No.	Reference	Serial No.
9477	V50145B	2909012131

VISUAL INSPECTION

Tests	Expected Values	Result
Verification of the good condition of the chassis	No damages	OK
Verification of the right finished right of transformer	No damages	OK
Check that the welding of the transformer's resistor is correct	Welding is right	OK
Check the torque at the input screw of the thyristors	Correct Torque	OK
Check the torque at the output screw of the thyristors	Correct Torque	OK
Check the torque of the heatsink to the chassis	Correct Torque	OK
Check of the wires and wiring connections	Wiring Connections Correct	OK

FINAL TEST

Reviewed points	Expected Values	Result
Check the control wiring	OK	
Check the power wiring	OK	
Check the wiring connection	OK	
Measuring between the input and output terminals	L1-U = from 10K Ω to 2.5M Ω	L1-U = 1.1 K Ω /M Ω
	L2-V = from 10K Ω to 2.5M Ω	L2-V = 1.1 K Ω /M Ω
	L3-W = from 10K Ω to 2.5M Ω	L3-W = 1.1 K Ω /M Ω
Measuring of the resistance between the terminals and the control board.	L1 red = 0 - 1 Ω	OK
	L1 red/white = 12 - 18 Ω	OK
	U yellow = 0 - 1 Ω	OK
	U yellow /white = 12 - 18 Ω	OK
	L2 blue = 0 - 1 Ω	OK
	L2 blue/white = 12 - 18 Ω	OK
	V grey = 0 - 1 Ω	OK
	V grey /white = 12 - 18 Ω	OK
	L3 green = 0 - 1 Ω	OK
	L3 green/white = 12 - 18 Ω	OK
	W brown = 0 - 1 Ω	OK
	W brown /white = 12 - 18 Ω	OK
Measurement of the resistance of the current transformer in parallel with the sensing resistor.	See table	L1:30.8
	See table	L3:30.7
Test the softstarter with lamps	Lights turn on according a ramp	OK
Test the operation of the softstarter with load (motor)	I empty: from 10 to 13A	I empty = 12.3 A
	Measure of the drop of the voltage between the input--output on control connectors (<1.8V)	L1-U = 0.1 V
		L2-V = 0.1 V
		L3-W = 0.1 V
Adjustments of the display	G3.14: set up 4 G3.15: set up 30 G4.6: set up 5	OK
Check the fan/s	Proper running	OK
Test of the softstarter during one hour to the nominal load	Without faults	OK



CHECK LIST SOFT STARTER

Order No.	Reference	Serial No.
9477	V50145B	2909012164

VISUAL INSPECTION

Tests	Expected Values	Result
Verification of the good condition of the chassis	No damages	OK
Verification of the right finished right of transformer	No damages	OK
Check that the welding of the transformer's resistor is correct	Welding is right	OK
Check the torque at the input screw of the thyristors	Correct Torque	OK
Check the torque at the output screw of the thyristors	Correct Torque	OK
Check the torque of the heatsink to the chassis	Correct Torque	OK
Check of the wires and wiring connections	Wiring Connections Correct	OK

FINAL TEST

Reviewed points	Expected Values	Result
Check the control wiring	OK	
Check the power wiring	OK	
Check the wiring connection	OK	
Measuring between the input and output terminals	L1-U = from 10K Ω to 2.5M Ω	L1-U = 1.2 K Ω /M Ω
	L2-V = from 10K Ω to 2.5M Ω	L2-V = 1.2 K Ω /M Ω
	L3-W = from 10K Ω to 2.5M Ω	L3-W = 1.2 K Ω /M Ω
Measuring of the resistance between the terminals and the control board.	L1 red = 0 - 1 Ω	OK
	L1 red/white = 12 - 18 Ω	OK
	U yellow = 0 - 1 Ω	OK
	U yellow /white = 12 - 18 Ω	OK
	L2 blue = 0 - 1 Ω	OK
	L2 blue/white = 12 - 18 Ω	OK
	V grey = 0 - 1 Ω	OK
	V grey /white = 12 - 18 Ω	OK
	L3 green = 0 - 1 Ω	OK
	L3 green/white = 12 - 18 Ω	OK
	W brown = 0 - 1 Ω	OK
	W brown /white = 12 - 18 Ω	OK
Measurement of the resistance of the current transformer in parallel with the sensing resistor.	See table	L1:30.7
	See table	L3:30.7
Test the softstarter with lamps	Lights turn on according a ramp	OK
Test the operation of the softstarter with load (motor)	I empty: from 10 to 13A	I empty = 12.8 A
	Measure of the drop of the voltage between the input--output on control connectors (<1.8V)	L1-U = 0 V
		L2-V = 0.1 V
		L3-W = 0.1 V
Adjustments of the display	G3.14: set up 4 G3.15: set up 30 G4.6: set up 5	OK
Check the fan/s	Proper running	OK
Test of the softstarter during one hour to the nominal load	Without faults	OK



CHECK LIST SOFT STARTER

Order No.	Reference	Serial No.
9477	V50145B	2909012165

VISUAL INSPECTION

Tests	Expected Values	Result
Verification of the good condition of the chassis	No damages	OK
Verification of the right finished right of transformer	No damages	OK
Check that the welding of the transformer's resistor is correct	Welding is right	OK
Check the torque at the input screw of the thyristors	Correct Torque	OK
Check the torque at the output screw of the thyristors	Correct Torque	OK
Check the torque of the heatsink to the chassis	Correct Torque	OK
Check of the wires and wiring connections	Wiring Connections Correct	OK

FINAL TEST

Reviewed points	Expected Values	Result
Check the control wiring	OK	
Check the power wiring	OK	
Check the wiring connection	OK	
Measuring between the input and output terminals	L1-U = from 10K Ω to 2.5M Ω	L1-U = 1.1 K Ω /M Ω
	L2-V = from 10K Ω to 2.5M Ω	L2-V = 1.1 K Ω /M Ω
	L3-W = from 10K Ω to 2.5M Ω	L3-W = 1.1 K Ω /M Ω
Measuring of the resistance between the terminals and the control board.	L1 red = 0 - 1 Ω	OK
	L1 red/white = 12 - 18 Ω	OK
	U yellow = 0 - 1 Ω	OK
	U yellow /white = 12 - 18 Ω	OK
	L2 blue = 0 - 1 Ω	OK
	L2 blue/white = 12 - 18 Ω	OK
	V grey = 0 - 1 Ω	OK
	V grey /white = 12 - 18 Ω	OK
	L3 green = 0 - 1 Ω	OK
	L3 green/white = 12 - 18 Ω	OK
	W brown = 0 - 1 Ω	OK
	W brown /white = 12 - 18 Ω	OK
Measurement of the resistance of the current transformer in parallel with the sensing resistor.	See table	L1:30.6
	See table	L3:30.6
Test the softstarter with lamps	Lights turn on according a ramp	OK
Test the operation of the softstarter with load (motor)	I empty: from 10 to 13A	I empty = 12.7 A
	Measure of the drop of the voltage between the input--output on control connectors (<1.8V)	L1-U = 0.1 V
		L2-V = 0.1 V
		L3-W = 0.1 V
Adjustments of the display	G3.14: set up 4 G3.15: set up 30 G4.6: set up 5	OK
Check the fan/s	Proper running	OK
Test of the softstarter during one hour to the nominal load	Without faults	OK



CHECK LIST SOFT STARTER

Order No.	Reference	Serial No.
9477	V50145B	2909012166

VISUAL INSPECTION

Tests	Expected Values	Result
Verification of the good condition of the chassis	No damages	OK
Verification of the right finished right of transformer	No damages	OK
Check that the welding of the transformer's resistor is correct	Welding is right	OK
Check the torque at the input screw of the thyristors	Correct Torque	OK
Check the torque at the output screw of the thyristors	Correct Torque	OK
Check the torque of the heatsink to the chassis	Correct Torque	OK
Check of the wires and wiring connections	Wiring Connections Correct	OK

FINAL TEST

Reviewed points	Expected Values	Result
Check the control wiring	OK	
Check the power wiring	OK	
Check the wiring connection	OK	
Measuring between the input and output terminals	L1-U = from 10K Ω to 2.5M Ω	L1-U = 2.3 K Ω /M Ω
	L2-V = from 10K Ω to 2.5M Ω	L2-V = 951 K Ω /M Ω
	L3-W = from 10K Ω to 2.5M Ω	L3-W = 2.5 K Ω /M Ω
Measuring of the resistance between the terminals and the control board.	L1 red = 0 - 1 Ω	OK
	L1 red/white = 12 - 18 Ω	OK
	U yellow = 0 - 1 Ω	OK
	U yellow /white = 12 - 18 Ω	OK
	L2 blue = 0 - 1 Ω	OK
	L2 blue/white = 12 - 18 Ω	OK
	V grey = 0 - 1 Ω	OK
	V grey /white = 12 - 18 Ω	OK
	L3 green = 0 - 1 Ω	OK
	L3 green/white = 12 - 18 Ω	OK
	W brown = 0 - 1 Ω	OK
	W brown /white = 12 - 18 Ω	OK
Measurement of the resistance of the current transformer in parallel with the sensing resistor.	See table	L1:30.7
	See table	L3:30.7
Test the softstarter with lamps	Lights turn on according a ramp	OK
Test the operation of the softstarter with load (motor)	I empty: from 10 to 13A	I empty = 12.8 A
	Measure of the drop of the voltage between the input--output on control connectors (<1.8V)	L1-U = 0 V
		L2-V = 0.1 V
		L3-W = 0 V
Adjustments of the display	G3.14: set up 4 G3.15: set up 30 G4.6: set up 5	OK
Check the fan/s	Proper running	OK
Test of the softstarter during one hour to the nominal load	Without faults	OK



CHECK LIST SOFT STARTER

Order No.	Reference	Serial No.
9477	V50145B	3009012175

VISUAL INSPECTION

Tests	Expected Values	Result
Verification of the good condition of the chassis	No damages	OK
Verification of the right finished right of transformer	No damages	OK
Check that the welding of the transformer's resistor is correct	Welding is right	OK
Check the torque at the input screw of the thyristors	Correct Torque	OK
Check the torque at the output screw of the thyristors	Correct Torque	OK
Check the torque of the heatsink to the chassis	Correct Torque	OK
Check of the wires and wiring connections	Wiring Connections Correct	OK

FINAL TEST

Reviewed points	Expected Values	Result
Check the control wiring	OK	
Check the power wiring	OK	
Check the wiring connection	OK	
Measuring between the input and output terminals	L1-U = from 10K Ω to 2.5M Ω	L1-U = 1.1 K Ω /M Ω
	L2-V = from 10K Ω to 2.5M Ω	L2-V = 1.1 K Ω /M Ω
	L3-W = from 10K Ω to 2.5M Ω	L3-W = 1.1 K Ω /M Ω
Measuring of the resistance between the terminals and the control board.	L1 red = 0 - 1 Ω	OK
	L1 red/white = 12 - 18 Ω	OK
	U yellow = 0 - 1 Ω	OK
	U yellow /white = 12 - 18 Ω	OK
	L2 blue = 0 - 1 Ω	OK
	L2 blue/white = 12 - 18 Ω	OK
	V grey = 0 - 1 Ω	OK
	V grey /white = 12 - 18 Ω	OK
	L3 green = 0 - 1 Ω	OK
	L3 green/white = 12 - 18 Ω	OK
	W brown = 0 - 1 Ω	OK
	W brown /white = 12 - 18 Ω	OK
Measurement of the resistance of the current transformer in parallel with the sensing resistor.	See table	L1:30.6
	See table	L3:30.6
Test the softstarter with lamps	Lights turn on according a ramp	OK
Test the operation of the softstarter with load (motor)	I empty: from 10 to 13A	I empty = 12.5 A
	Measure of the drop of the voltage between the input--output on control connectors (<1.8V)	L1-U = 0.1 V
		L2-V = 0.1 V
		L3-W = 0.1 V
Adjustments of the display	G3.14: set up 4 G3.15: set up 30 G4.6: set up 5	OK
Check the fan/s	Proper running	OK
Test of the softstarter during one hour to the nominal load	Without faults	OK



CHECK LIST SOFT STARTER

Order No.	Reference	Serial No.
9477	V50145B	3009012175

VISUAL INSPECTION

Tests	Expected Values	Result
Verification of the good condition of the chassis	No damages	OK
Verification of the right finished right of transformer	No damages	OK
Check that the welding of the transformer's resistor is correct	Welding is right	OK
Check the torque at the input screw of the thyristors	Correct Torque	OK
Check the torque at the output screw of the thyristors	Correct Torque	OK
Check the torque of the heatsink to the chassis	Correct Torque	OK
Check of the wires and wiring connections	Wiring Connections Correct	OK

FINAL TEST

Reviewed points	Expected Values	Result
Check the control wiring	OK	
Check the power wiring	OK	
Check the wiring connection	OK	
Measuring between the input and output terminals	L1-U = from 10K Ω to 2.5M Ω	L1-U = 1.1 K Ω /M Ω
	L2-V = from 10K Ω to 2.5M Ω	L2-V = 1.1 K Ω /M Ω
	L3-W = from 10K Ω to 2.5M Ω	L3-W = 1.1 K Ω /M Ω
Measuring of the resistance between the terminals and the control board.	L1 red = 0 - 1 Ω	OK
	L1 red/white = 12 - 18 Ω	OK
	U yellow = 0 - 1 Ω	OK
	U yellow /white = 12 - 18 Ω	OK
	L2 blue = 0 - 1 Ω	OK
	L2 blue/white = 12 - 18 Ω	OK
	V grey = 0 - 1 Ω	OK
	V grey /white = 12 - 18 Ω	OK
	L3 green = 0 - 1 Ω	OK
	L3 green/white = 12 - 18 Ω	OK
	W brown = 0 - 1 Ω	OK
	W brown /white = 12 - 18 Ω	OK
Measurement of the resistance of the current transformer in parallel with the sensing resistor.	See table	L1:30.6
	See table	L3:30.6
Test the softstarter with lamps	Lights turn on according a ramp	OK
Test the operation of the softstarter with load (motor)	I empty: from 10 to 13A	I empty = 12.6 A
	Measure of the drop of the voltage between the input--output on control connectors (<1.8V)	L1-U = 0.1 V
		L2-V = 0.1 V
		L3-W = 0.1 V
Adjustments of the display	G3.14: set up 4 G3.15: set up 30 G4.6: set up 5	OK
Check the fan/s	Proper running	OK
Test of the softstarter during one hour to the nominal load	Without faults	OK



CHECK LIST SOFT STARTER

Order No.	Reference	Serial No.
9477	V50145B	3009012176

VISUAL INSPECTION

Tests	Expected Values	Result
Verification of the good condition of the chassis	No damages	OK
Verification of the right finished right of transformer	No damages	OK
Check that the welding of the transformer's resistor is correct	Welding is right	OK
Check the torque at the input screw of the thyristors	Correct Torque	OK
Check the torque at the output screw of the thyristors	Correct Torque	OK
Check the torque of the heatsink to the chassis	Correct Torque	OK
Check of the wires and wiring connections	Wiring Connections Correct	OK

FINAL TEST

Reviewed points	Expected Values	Result
Check the control wiring	OK	
Check the power wiring	OK	
Check the wiring connection	OK	
Measuring between the input and output terminals	L1-U = from 10KΩ to 2.5MΩ	L1-U = 1.1 KΩ /MΩ
	L2-V = from 10KΩ to 2.5MΩ	L2-V = 1.2 KΩ /MΩ
	L3-W = from 10KΩ to 2.5MΩ	L3-W = 1.2 KΩ /MΩ
Measuring of the resistance between the terminals and the control board.	L1 red = 0 - 1 Ω	OK
	L1 red/white = 12 - 18 Ω	OK
	U yellow = 0 - 1 Ω	OK
	U yellow /white = 12 - 18 Ω	OK
	L2 blue = 0 - 1 Ω	OK
	L2 blue/white = 12 - 18 Ω	OK
	V grey = 0 - 1 Ω	OK
	V grey /white = 12 - 18 Ω	OK
	L3 green = 0 - 1 Ω	OK
	L3 green/white = 12 - 18 Ω	OK
	W brown = 0 - 1 Ω	OK
	W brown /white = 12 - 18 Ω	OK
Measurement of the resistance of the current transformer in parallel with the sensing resistor.	See table	L1:30.6
	See table	L3:30.5
Test the softstarter with lamps	Lights turn on according a ramp	OK
Test the operation of the softstarter with load (motor)	I empty: from 10 to 13A	I empty=12.0 A
	Measure of the drop of the voltage between the input--output on control connectors (<1.8V)	L1-U= 0 V
		L2-V= 0 V
		L3-W= 0 V
Adjustments of the display	G3.14: set up 4 G3.15: set up 30 G4.6: set up 5	OK
Check the fan/s	Proper running	OK
Test of the softstarter during one hour to the nominal load	Without faults	OK



CHECK LIST SOFT STARTER

Order No.	Reference	Serial No.
9477	V50145B	3009012177

VISUAL INSPECTION

Tests	Expected Values	Result
Verification of the good condition of the chassis	No damages	OK
Verification of the right finished right of transformer	No damages	OK
Check that the welding of the transformer's resistor is correct	Welding is right	OK
Check the torque at the input screw of the thyristors	Correct Torque	OK
Check the torque at the output screw of the thyristors	Correct Torque	OK
Check the torque of the heatsink to the chassis	Correct Torque	OK
Check of the wires and wiring connections	Wiring Connections Correct	OK

FINAL TEST

Reviewed points	Expected Values	Result
Check the control wiring	OK	
Check the power wiring	OK	
Check the wiring connection	OK	
Measuring between the input and output terminals	L1-U = from 10K Ω to 2.5M Ω	L1-U = 1.1 K Ω /M Ω
	L2-V = from 10K Ω to 2.5M Ω	L2-V = 1.1 K Ω /M Ω
	L3-W = from 10K Ω to 2.5M Ω	L3-W = 1.1 K Ω /M Ω
Measuring of the resistance between the terminals and the control board.	L1 red = 0 - 1 Ω	OK
	L1 red/white = 12 - 18 Ω	OK
	U yellow = 0 - 1 Ω	OK
	U yellow /white = 12 - 18 Ω	OK
	L2 blue = 0 - 1 Ω	OK
	L2 blue/white = 12 - 18 Ω	OK
	V grey = 0 - 1 Ω	OK
	V grey /white = 12 - 18 Ω	OK
	L3 green = 0 - 1 Ω	OK
	L3 green/white = 12 - 18 Ω	OK
	W brown = 0 - 1 Ω	OK
	W brown /white = 12 - 18 Ω	OK
Measurement of the resistance of the current transformer in parallel with the sensing resistor.	See table	L1:30.6
	See table	L3:30.6
Test the softstarter with lamps	Lights turn on according a ramp	OK
Test the operation of the softstarter with load (motor)	I empty: from 10 to 13A	I empty = 12.7 A
	Measure of the drop of the voltage between the input--output on control connectors (<1.8V)	L1-U = 0.1 V
		L2-V = 0.1 V
		L3-W = 0.1 V
Adjustments of the display	G3.14: set up 4 G3.15: set up 30 G4.6: set up 5	OK
Check the fan/s	Proper running	OK
Test of the softstarter during one hour to the nominal load	Without faults	OK



CHECK LIST SOFT STARTER

Order No.	Reference	Serial No.
9477	V50145B	3009012196

VISUAL INSPECTION

Tests	Expected Values	Result
Verification of the good condition of the chassis	No damages	OK
Verification of the right finished right of transformer	No damages	OK
Check that the welding of the transformer's resistor is correct	Welding is right	OK
Check the torque at the input screw of the thyristors	Correct Torque	OK
Check the torque at the output screw of the thyristors	Correct Torque	OK
Check the torque of the heatsink to the chassis	Correct Torque	OK
Check of the wires and wiring connections	Wiring Connections Correct	OK

FINAL TEST

Reviewed points	Expected Values	Result
Check the control wiring	OK	
Check the power wiring	OK	
Check the wiring connection	OK	
Measuring between the input and output terminals	L1-U = from 10K Ω to 2.5M Ω	L1-U = 1.1 K Ω /M Ω
	L2-V = from 10K Ω to 2.5M Ω	L2-V = 1.2 K Ω /M Ω
	L3-W = from 10K Ω to 2.5M Ω	L3-W = 1.2 K Ω /M Ω
Measuring of the resistance between the terminals and the control board.	L1 red = 0 - 1 Ω	OK
	L1 red/white = 12 - 18 Ω	OK
	U yellow = 0 - 1 Ω	OK
	U yellow /white = 12 - 18 Ω	OK
	L2 blue = 0 - 1 Ω	OK
	L2 blue/white = 12 - 18 Ω	OK
	V grey = 0 - 1 Ω	OK
	V grey /white = 12 - 18 Ω	OK
	L3 green = 0 - 1 Ω	OK
	L3 green/white = 12 - 18 Ω	OK
	W brown = 0 - 1 Ω	OK
	W brown /white = 12 - 18 Ω	OK
Measurement of the resistance of the current transformer in parallel with the sensing resistor.	See table	L1:30.7
	See table	L3:30.7
Test the softstarter with lamps	Lights turn on according a ramp	OK
Test the operation of the softstarter with load (motor)	I empty: from 10 to 13A	I empty = 12.1 A
	Measure of the drop of the voltage between the input--output on control connectors (<1.8V)	L1-U = 0 V
		L2-V = 0 V
		L3-W = 0 V
Adjustments of the display	G3.14: set up 4 G3.15: set up 30 G4.6: set up 5	OK
Check the fan/s	Proper running	OK
Test of the softstarter during one hour to the nominal load	Without faults	OK



CHECK LIST SOFT STARTER

Order No.	Reference	Serial No.
9477	V50145B	3009012197

VISUAL INSPECTION

Tests	Expected Values	Result
Verification of the good condition of the chassis	No damages	OK
Verification of the right finished right of transformer	No damages	OK
Check that the welding of the transformer's resistor is correct	Welding is right	OK
Check the torque at the input screw of the thyristors	Correct Torque	OK
Check the torque at the output screw of the thyristors	Correct Torque	OK
Check the torque of the heatsink to the chassis	Correct Torque	OK
Check of the wires and wiring connections	Wiring Connections Correct	OK

FINAL TEST

Reviewed points	Expected Values	Result
Check the control wiring	OK	
Check the power wiring	OK	
Check the wiring connection	OK	
Measuring between the input and output terminals	L1-U = from 10K Ω to 2.5M Ω	L1-U = 1.1 K Ω /M Ω
	L2-V = from 10K Ω to 2.5M Ω	L2-V = 1.1 K Ω /M Ω
	L3-W = from 10K Ω to 2.5M Ω	L3-W = 1.1 K Ω /M Ω
Measuring of the resistance between the terminals and the control board.	L1 red = 0 - 1 Ω	OK
	L1 red/white = 12 - 18 Ω	OK
	U yellow = 0 - 1 Ω	OK
	U yellow /white = 12 - 18 Ω	OK
	L2 blue = 0 - 1 Ω	OK
	L2 blue/white = 12 - 18 Ω	OK
	V grey = 0 - 1 Ω	OK
	V grey /white = 12 - 18 Ω	OK
	L3 green = 0 - 1 Ω	OK
	L3 green/white = 12 - 18 Ω	OK
	W brown = 0 - 1 Ω	OK
	W brown /white = 12 - 18 Ω	OK
Measurement of the resistance of the current transformer in parallel with the sensing resistor.	See table	L1:30.7
	See table	L3:30.7
Test the softstarter with lamps	Lights turn on according a ramp	OK
Test the operation of the softstarter with load (motor)	I empty: from 10 to 13A	I empty = 12.2 A
	Measure of the drop of the voltage between the input--output on control connectors (<1.8V)	L1-U = 0.1 V
		L2-V = 0 V
		L3-W = 0.1 V
Adjustments of the display	G3.14: set up 4 G3.15: set up 30 G4.6: set up 5	OK
Check the fan/s	Proper running	OK
Test of the softstarter during one hour to the nominal load	Without faults	OK



CHECK LIST SOFT STARTER

Order No.	Reference	Serial No.
9457	V50210B	2909012081

VISUAL INSPECTION

Tests	Expected Values	Result
Verification of the good condition of the chassis	No damages	OK
Verification of the right finished right of transformer	No damages	OK
Check that the welding of the transformer's resistor is correct	Welding is right	OK
Check the torque at the input screw of the thyristors	Correct Torque	OK
Check the torque at the output screw of the thyristors	Correct Torque	OK
Check the torque of the heatsink to the chassis	Correct Torque	OK
Check of the wires and wiring connections	Wiring Connections Correct	OK

FINAL TEST

Reviewed points	Expected Values	Result
Check the control wiring	OK	
Check the power wiring	OK	
Check the wiring connection	OK	
Measuring between the input and output terminals	L1-U = from 10K Ω to 2.5M Ω	L1-U = 2.4 K Ω /M Ω
	L2-V = from 10K Ω to 2.5M Ω	L2-V = 2.4 K Ω /M Ω
	L3-W = from 10K Ω to 2.5M Ω	L3-W = 2.4 K Ω /M Ω
Measuring of the resistance between the terminals and the control board.	L1 red = 0 - 1 Ω	OK
	L1 red/white = 12 - 18 Ω	OK
	U yellow = 0 - 1 Ω	OK
	U yellow /white = 12 - 18 Ω	OK
	L2 blue = 0 - 1 Ω	OK
	L2 blue/white = 12 - 18 Ω	OK
	V grey = 0 - 1 Ω	OK
	V grey /white = 12 - 18 Ω	OK
	L3 green = 0 - 1 Ω	OK
	L3 green/white = 12 - 18 Ω	OK
	W brown = 0 - 1 Ω	OK
	W brown /white = 12 - 18 Ω	OK
Measurement of the resistance of the current transformer in parallel with the sensing resistor.	See table	L1:20.8
	See table	L3:20.8
Test the softstarter with lamps	Lights turn on according a ramp	OK
Test the operation of the softstarter with load (motor)	I empty: from 10 to 13A	I empty = 12.6 A
	Measure of the drop of the voltage between the input--output on control connectors (<1.8V)	L1-U = 0 V
		L2-V = 0 V
		L3-W = 0 V
Adjustments of the display	G3.14: set up 4 G3.15: set up 30 G4.6: set up 5	OK
Check the fan/s	Proper running	OK
Test of the softstarter during one hour to the nominal load	Without faults	OK