

Document Reference GIB0000006488 Version: A0 Emission date 23/05/2024

| PROJECT | CUSTOMER | VEHICLE | |
|-----------------|----------|----------------|--|
| Xtrapolis-PRASA | PRASA | 223 - M1 - VPT | |

RTR Vehicle Pre-Testing TS223 M1 Report GIB0000006488



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Section 1 – Purpose / Objectives



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Section 2 - Protective Bonding and Return Current

2.3 Instructions list

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2.3.1 012_PB-Protective Bonding and Return Current

I - Information A - Action R - Result NE - Not Executed

| N° | Туре | Instruction | File | Result status | Result value | Operator | Vehicle |
|-------|------|---|---------------------------------------|---------------|--------------|-------------------------------|---------|
| 10001 | ı | Return Circuit: Car Body to Ground | | ОК | | Siphesihle Mchunu - 491465 | M1 |
| 10002 | ı | The purpose of this test is to confirm that the car body of each car in the train is connected to ground via the earthing brush which will ensure that current from the overhead wire is returned to the substation without damage to equipment or risk of electric shock | | ок | | Siphesihle Mchunu - 491465 | M1 |
| 10003 | А | Use the Tool List to record the serial number of the Ohmmeter that will be used in this test | | ОК | | Siphesihle Mchunu - 491465 | M1 |
| 10004 | А | Ensure that the current setpoint is 50A and voltage <50V (applicable for all impedance measurement) on the ohmmeter device to be used for the test. | | ок | | Siphesihle Mchunu - 491465 | M1 |
| 10005 | I | For all impedance measurements of the car body to ground the positive terminal shall be connected to the car body and the negative terminal to the rail | | ок | | Siphesihle Mchunu - 491465 | M1 |
| 10006 | I | For all other impedance measurements, the positive terminal shall be connected to the tested subject and the negative terminal to the car body shell | | ок | | Siphesihle Mchunu - 491465 | M1 |
| 10007 | А | Visually identify and inspect that the earthing cables of the 1st and 2nd axle of the 1st and 2nd Bogie Frame are properly connected to the axle brushes | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | ок | | Siphesihle Mchunu - 491465 | M1 |
| 10008 | А | Disconnect from the axle box the earthing cable of the 1st and 2nd axle of the 1st and 2nd Bogie Frame of the M1 car | | ОК | | Siphesihle Mchunu - 491465 | M1 |
| 10009 | R | All the earthing cables of the M1 car are disconnected | | ОК | | Siphesihle Mchunu - 491465 | M1 |
| 10010 | А | Connect the earthing cable of the 1st axle in the 1st Bogie Frame | | ОК | | Siphesihle Mchunu - 491465 | M1 |



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| 10011 | R | Only the earthing cable of the 1st axle of the 1st Bogie Frame is connected | ОК | | Siphesihle Mchunu - 491465 | М1 |
|-------|---|---|----|--------|-------------------------------|----|
| 10012 | А | Using an ohmmeter measure the impedance between the car body to rail | ОК | | Siphesihle Mchunu - 491465 | M1 |
| 10013 | R | Impedance Result Max: x <= 0.05 (Ohms) | ОК | 0.0274 | Siphesihle Mchunu - 491465 | M1 |
| 10014 | А | Disconnect the earthing cable of the 1st axle of the 1st bogie frame | ок | | Siphesihle Mchunu - 491465 | Mı |
| 10015 | R | Earthing cable disconnected | ОК | | Siphesihle Mchunu - 491465 | M1 |
| 10016 | А | Connect the earthing cable of the 2nd axle in the 1st Bogie Frame | ОК | | Siphesihle Mchunu - 491465 | M1 |
| 10017 | R | Only the earthing cable of the 2nd axle of the 1st Bogie Frame is connected | ОК | | Siphesihle Mchunu - 491465 | M1 |
| 10018 | А | Using an ohmmeter measure the impedance between the car body to rail | ОК | | Siphesihle Mchunu - 491465 | M1 |
| 10019 | R | Impedance Result Max: x <= 0.05 (Ohms) | ОК | 0.0265 | Siphesihle Mchunu - 491465 | M1 |
| 10020 | R | Earthing cable disconnected | ок | | Siphesihle Mchunu - 491465 | M1 |
| 10021 | А | Disconnect the earthing cable of the 2nd axle of the 1st bogie frame | ок | | Siphesihle Mchunu - 491465 | M1 |
| 10022 | I | Earthing of Equipment on the Underframe | ОК | | Siphesihle Mchunu - 491465 | M1 |
| 10023 | А | Connect the earthing cable of the 1st axle in the 2nd Bogie Frame | ОК | | Siphesihle Mchunu - 491465 | M1 |
| 10024 | R | Only the earthing cable of the 1st axle of the 2nd Bogie Frame is connected | ОК | | Siphesihle Mchunu - 491465 | M1 |
| 10025 | А | Using an ohmmeter measure the impedance between the car body to rail | ОК | | Siphesihle Mchunu - 491465 | M1 |
| 10026 | R | Impedance Result Max: x <= 0.05 (Ohms) | ОК | 0.0213 | Siphesihle Mchunu - 491465 | M1 |
| 10027 | А | Disconnect the earthing cable of the 1st axle of the 2nd bogie frame | ОК | | Siphesihle Mchunu - 491465 | M1 |
| 10028 | R | Earthing cable disconnected | ОК | | Siphesihle Mchunu - 491465 | M1 |
| 10029 | А | Connect the earthing cable of the 2nd axle in the 2nd Bogie Frame | ОК | | Siphesihle Mchunu - 491465 | M1 |



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| 10030 | R | Only the earthing cable of the 1st axle of the 2nd Bogie Frame is connected | ОК | | Siphesihle Mchunu - 491465 | M1 |
|-------|---|--|----|--------|-------------------------------|----|
| 10031 | А | Using an ohmmeter measure the impedance between the car body to rail | ок | | Siphesihle Mchunu - 491465 | M1 |
| 10032 | R | Impedance Result Max: x <= 0.05 (Ohms) | ок | 0.0165 | Siphesihle Mchunu - 491465 | M1 |
| 10033 | А | Reconnect all earthing cables of the 1st and 2nd axle of the 1st and 2nd Bogie Frame | ок | | Siphesihle Mchunu - 491465 | M1 |
| 10034 | R | All earthing cables connected on the 1st and 2nd Bogie Frame | ОК | | Siphesihle Mchunu - 491465 | M1 |
| 10035 | А | Visually inspect that the earthing cable connecting the Traction Inverter Case to M1 car body is properly connected and related bolts are correctly torqued | ОК | | Siphesihle Mchunu - 491465 | M1 |
| 10036 | R | Traction Inverter Case visually grounded and torque is correctly marked | ок | | Siphesihle Mchunu - 491465 | M1 |
| 10037 | А | Using an ohmmeter measure the impedance between the Traction Inverter Case and the car body | ок | | Siphesihle Mchunu - 491465 | M1 |
| 10038 | R | Impedance Result Max: x <= 0.05 (Ohms) | ок | 0.0244 | Siphesihle Mchunu - 491465 | M1 |
| 10039 | А | Visually inspect that the earthing cable connecting the Line Inductor Case to M4 car body is properly connected and related bolts are correctly torqued | ОК | | Siphesihle Mchunu - 491465 | M1 |
| 10040 | R | Line Inductor Case visually grounded and torque is correctly marked | ок | | Siphesihle Mchunu - 491465 | M1 |
| 10041 | А | Using an ohmmeter measure the impedance between the Line Inductor Case and the car body | ок | | Siphesihle Mchunu - 491465 | M1 |
| 10042 | R | Impedance Result Max: x <= 0.05 (Ohms) | ОК | 0.0285 | Siphesihle Mchunu - 491465 | M1 |
| 10043 | А | Visually inspect that the earthing cable connecting the Traction Motors of the 1st and 2nd axle of the 1st Bogie Frame to the car body is properly connected and related bolts are correctly torqued | ОК | | Siphesihle Mchunu - 491465 | M1 |
| 10044 | R | Traction Motors visually grounded and torque is correctly marked | ОК | | Siphesihle Mchunu - 491465 | M1 |

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| 10045 | А | Using an ohmmeter measure the impedance between the Traction Motors of the 1st and 2nd axle of the 1st Bogie Frame and the car body | OK | | Siphesihle Mchunu - 491465 | M1 |
|-------|---|--|----|---------|-------------------------------|----|
| 10046 | R | Impedance Result Max: x <= 0.05 (Ohms) | ок | 0.0218 | Siphesihle Mchunu - 491465 | M1 |
| 10047 | А | Visually inspect that the earthing cable connecting the Traction Motors of the 1st and 2nd axle of the 2nd Bogie Frame to the car body is properly connected and related bolts are correctly torqued | ОК | | Siphesihle Mchunu - 491465 | M1 |
| 10048 | R | Traction Motors visually grounded and torque is correctly marked | ОК | | Siphesihle Mchunu - 491465 | M1 |
| 10049 | А | Using an ohmmeter measure the impedance between the Traction Motors of the 1st and 2nd axle of the 2nd Bogie Frame and the car body | OK | | Siphesihle Mchunu - 491465 | M1 |
| 10050 | R | Impedance Result Max: x <= 0.05 (Ohms) | ОК | 0.0261 | Siphesihle Mchunu - 491465 | M1 |
| 10051 | I | Earthing of Equipment on the Roof | ОК | | Siphesihle Mchunu - 491465 | M1 |
| 10052 | А | Visually inspect that the earthing cable connecting the 1st Braking Resistor Box to M1 car body is properly connected and related bolts are correctly torqued | OK | | Siphesihle Mchunu - 491465 | M1 |
| 10053 | R | 1st Braking Resistor Box visually grounded and torque is correctly marked | ОК | | Siphesihle Mchunu - 491465 | M1 |
| 10054 | А | Using an ohmmeter measure the impedance between the 1st Braking Resistor Box and the car body | ок | | Siphesihle Mchunu - 491465 | M1 |
| 10055 | R | Impedance Result Max: x <= 0.05 (Ohms) | ок | 0.00219 | Siphesihle Mchunu - 491465 | M1 |
| 10056 | А | Visually inspect that the earthing cable connecting the Saloon HVAC to M1 car body is properly connected and related bolts are correctly torqued | ОК | | Siphesihle Mchunu - 491465 | M1 |
| 10057 | R | Saloon HVAC visually grounded and torque is correctly marked | ОК | | Siphesihle Mchunu - 491465 | M1 |
| 10058 | А | Using an ohmmeter measure the impedance between the Saloon HVAC and the car body | ок | | Siphesihle Mchunu - 491465 | M1 |
| 10059 | R | Impedance Result Max: x <= 0.05 (Ohms) | ок | 0.00241 | Siphesihle Mchunu - 491465 | M1 |

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| 10060 | А | Visually inspect that the earthing cable connecting the 2nd Braking Resistor Box to M1 car body is properly connected and related bolts are correctly torqued | ок | | Siphesihle Mchunu - 491465 | M1 |
|-------|---|---|----|---------|-------------------------------|----|
| 10061 | R | 2nd Braking Resistor Box visually grounded and torque is correctly marked | ок | | Siphesihle Mchunu - 491465 | M1 |
| 10062 | А | Using an ohmmeter measure the impedance between the 2nd Braking Resistor Box and the car body | ок | | Siphesihle Mchunu - 491465 | M1 |
| 10063 | R | Impedance Result Max: x <= 0.05 (Ohms) | ОК | 0.00289 | Siphesihle Mchunu - 491465 | M1 |



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Section 3 – Reflectometry

3.3 Instructions list

3.3.1 025_NET-Network Cabling Integrity

I - Information A - Action R - Result NE - Not Executed

| N° | Туре | Instruction | File | Result status | Result value | Operator | Vehicle |
|-------|------|---|------|------------------|--------------|-------------------------------|---------|
| 10001 | ı | Network Cabling Integrity Test | | ОК | | Siphesihle Mchunu - 491465 | M1 |
| 10002 | I | It is neccessary to check the network cables to ensure that they have been installed correctly to improve the overall operation of the system. | | ОК | | Siphesihle Mchunu - 491465 | M1 |
| 10003 | I | The Cable Analyzer Module DSX-5000 will be used to validate cabling | | ОК | | Siphesihle Mchunu - 491465 | M1 |
| 10004 | I | First time user should register as a new Operator on the DSX-5000. Check on the manual on how to register as a new Operator. | × | ОК | | Siphesihle Mchunu - 491465 | M1 |
| 10005 | I | When saving the tests results for each line, it should be named by its trainset number (X) and the test code (Indicated in the test step). i.e. TSO21_M1_P01 for PACIS and TSO21_M1_T01 for TCMS. | | ОК | | Siphesihle Mchunu - 491465 | M1 |
| 10006 | I | TCMS cabling | | ОК | | Siphesihle Mchunu - 491465 | M1 |
| 10007 | А | From: [25A10 SWITCH ETHERNET (CRS1) (Local: +LV3; Connector: 25XP10_X4)] to: [25A11 SWITCH ETHERNET (CRS2) (Local: +LV3; Connector: 25XP11_X3)] NOTE: Cable is crossed TSX_M1_T01 | | ок | | Siphesihle Mchunu - 491465 | М1 |
| 10008 | А | From: [25A11 Ethernet Switch (Local: +LV3; Connector: 25XP11_X4)] to: [Intercar (Local: +END2; Connector: 90XP32.all)] NOTE: Cable is straight | | ОК | | Siphesihle Mchunu - 491465 | M1 |



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| | | TSX_M1_T02 | | | |
|-------|---|--|----|-------------------------------|----|
| 10009 | А | From: [25A14 TBR-M1 (Local: +LV3; Connector: 25XP14_ETH1)] to: [Intercar (Local: +END2; Connector: 90XP32.al)] NOTE: Cable is crossed TSX_M1_T03 | ОК | Siphesihle Mchunu - 491465 | M1 |
| 10010 | А | From: [25A10 Ethernet Switch (Local: +LV3; Connector: 25XP10_X5)] to: [(Local: +END2; Connector: 90XP31.el)] NOTE: Cable is crossed TSX_M1_T04 | ОК | Siphesihle Mchunu - 491465 | M1 |
| 10011 | А | From: [25A14 TBR-M1 (Local: +LV3; Connector: 25XP14_ETH0)] to: [Intercar (Local: +END1; Connector: 90XP21.Al)] NOTE: Cable is crossed TSX_M1_T05 | ОК | Siphesihle Mchunu - 491465 | M1 |
| 10012 | А | From: [25A10 Ethernet Switch (Local: +LV3; Connector: 25XP10_X3)] to: [(Local: +END1; Connector: 90XP21.All)] NOTE: Cable is crossed TSX_M1_T06 | ОК | Siphesihle Mchunu - 491465 | M1 |
| 10013 | А | From: [(Local: +END1; Connector: 90XR22.All)] to: [Intercar (Local: +END2; Connector: 90XP31.all)] NOTE: Cable is straight TSX_M1_T07 | ОК | Siphesihle Mchunu - 491465 | M1 |
| 10014 | А | From: [(Local: +END1; Connector: 90XR22.Al)] to: [Intercar (Local: +END2; Connector: 90XP31.al)] NOTE: Cable is straight TSX_M1_T08 | ОК | Siphesihle Mchunu - 491465 | M1 |
| 10015 | I | Pacis cabling | ОК | Siphesihle Mchunu - 491465 | M1 |
| 10016 | А | From: [(Local: +END1; Connector: 90XR22.Ell)] to: [Intercar (Local: +END2; Connector: -90XP31.ell)] NOTE: Cable is straight TSX_M1_P01 | ОК | Siphesihle Mchunu - 491465 | M1 |
| 10017 | А | From: [54A11 SWITCH ETHERNET (CRS2) (Local: +LV6; Connector: 54XP11_X8)] to: [(Local: +END1; | ок | Siphesihle Mchunu - 491465 | M1 |

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| | | Connector: 90XR21.Ell)] NOTE: Cable is straight TSX_M1_P02 | | | |
|-------|---|---|----|-------------------------------|----|
| 10018 | А | From: [54A10 SWITCH ETHERNET (CRS1) (Local: +LV6; Connector: 54XP10_X7)] to: [(Local: +END2; Connector: 90XP32.ell)] NOTE: Cable is crossed TSX_M1_P03 | ОК | Siphesihle Mchunu - 491465 | M1 |
| 10019 | А | From: [54A10 CRS1 (Local: +LV6; Connector 54XP10_X8)] to: [54A11 CRS2 (Local: +LV6; Connector 54XP11_X7)] NOTE: Cable is crossed TSX_M1_P04 | ОК | Siphesihle Mchunu - 491465 | M1 |
| 10020 | А | All cables have been validated on M1 | ОК | Siphesihle Mchunu - 491465 | M1 |
| 10021 | R | Download all the results from Fluke and save them on PC with folder name "M1_TSxx" | ОК | Siphesihle Mchunu - 491465 | M1 |



Section 4 - Config

4.3 Instructions list

4.3.1 CONFIG-Vehicle Configuration

I - Information A - Action R - Result NE - Not Executed

| N° | Туре | Instruction | File | Result status | Result value | Operator | Vehicle |
|-------|------|---|---|------------------|--------------|-------------------------------|---------|
| 10001 | I | Configuration Checks | | ОК | | Siphesihle Mchunu - 491465 | M1 |
| 10002 | А | Check continuity on all pins of End 1 connector 90XP15 & 90XP14 to ground | | ОК | | Siphesihle Mchunu - 491465 | M1 |
| 10003 | R | There is no continuity | | ОК | | Siphesihle Mchunu - 491465 | M1 |
| 10004 | А | Check continuity on all pins of End 2 connector 90XP15 & 90XP14 to ground | | ОК | | Siphesihle Mchunu - 491465 | M1 |
| 10005 | R | There is no continuity | | ок | | Siphesihle Mchunu - 491465 | M1 |
| 10006 | ı | Fire Detection_67 | | ОК | | Siphesihle Mchunu - 491465 | M1 |
| 10007 | I | Smoke Detector Address Configuration | | ОК | | Siphesihle Mchunu - 491465 | M1 |
| 10008 | А | Remove and configure the Smoke Detector 67A2 (+PA1) according to the figure attached. | 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | ОК | | Siphesihle Mchunu - 491465 | M1 |
| 10009 | А | Reconnect Smoke Detector 67A2 | | ОК | | Siphesihle Mchunu - 491465 | M1 |
| 10010 | А | Remove and configure the Smoke Detector 67A3 (+PA3) according to the figure below | * * * * * * * * * * * * * * * * * * * | ОК | | Siphesihle Mchunu - 491465 | M1 |
| 10011 | ı | Line Heat Detection | | ОК | | Siphesihle Mchunu - 491465 | Mı |
| 10012 | А | Measure the resistance between point 1 and point 4 of the connector 67XP3_11 | | OK | | Siphesihle Mchunu - 491465 | M1 |
| 10013 | R | About 600 Ohms measured | | ОК | 595.4 | Siphesihle Mchunu - 491465 | M1 |
| 10014 | А | Reconnect Smoke Detector 67A3 | | ОК | | Siphesihle Mchunu - 491465 | M1 |



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| 10015 | I | OTDR LOOP | ОК | Siphesihle Mchunu - 491465 | M1 |
|-------|---|--|----|-------------------------------|----|
| 10016 | 1 | Check continuity on the following points: | ОК | Siphesihle Mchunu - 491465 | M1 |
| 10017 | А | From: [+IV1(local: +END1 Connector 90XR23.B(pin1))] to: [(local: +END2 Connector -93XR833.B (pin 1))] | ОК | Siphesihle Mchunu - 491465 | M1 |
| 10018 | А | From: [-IV1 (local: +END1 Connector 90XR23.B(pin2))] to: [(local: +END2 Connector -93XR833.B (pin 2))] | ОК | Siphesihle Mchunu - 491465 | M1 |



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Section 5 – Traction Motors

5.3 Instructions list



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5.3.1 011_TRM-Traction Motors

I - Information A - Action R - Result NE - Not Executed

| N° | Туре | Instruction | File | Result status | Result value | Operator | Vehicle |
|-------|------|--|--------------------------------------|------------------|--------------|-------------------------------|---------|
| 10001 | ı | Traction Motors (SPP = 11) | | ОК | | Siphesihle Mchunu - 491465 | M1 |
| 10002 | I | Ensure all the CONNECTORS are fully ASSEMBLED before running a continuity test. | | ОК | | Siphesihle Mchunu - 491465 | M1 |
| 10003 | I | The following test is used to confirm the wiring of the traction motors. | 8 5 C8 <u>-</u> 8 5 C8 | ОК | | Siphesihle Mchunu - 491465 | M1 |
| 10004 | I | SAFETY NOTICE: It is important to ensure that there is no 400Vac power supply on the vehicle. | | ок | | Siphesihle Mchunu - 491465 | M1 |
| 10005 | А | Switch OFF the 400Vac power supply at the source and disconnect the supply cables from the vehicle | | ОК | | Siphesihle Mchunu - 491465 | M1 |
| 10006 | R | There is no 400Vac available on the vehicle | | ОК | | Siphesihle Mchunu - 491465 | M1 |
| 10007 | I | Visual Inspection | | ОК | | Siphesihle Mchunu - 491465 | M1 |
| 10008 | I | For motor 1 and motor 2 connect 11XR1 and 11XR2 and visually inspect that the following cables are connected. From - 11XR1 connector to -11M1 motor and -11XR2 connector to -11M2 motor respectively. NOTE: the cable configuration should be straight, none should cross the other. | | ок | | Siphesihle Mchunu - 491465 | M1 |
| 10009 | I | Motor 2 | | ОК | | Siphesihle Mchunu - 491465 | M1 |
| 10010 | R | [-11XR2 connector (local: UND - 11XP2_2.X1 pin 1)] connected to: [- 11XT2 motor terminals (U) -11M2]. | | ОК | | Siphesihle Mchunu - 491465 | M1 |
| 10011 | R | [-11XR2 connector (local: UND - 11XP2_2.X2 pin 1)] connected to: [- 11XT2 motor terminals (V) -11M2]. | | ок | | Siphesihle Mchunu - 491465 | M1 |
| 10012 | R | [-11XR2 connector (local: UND - 11XP2_2.X3 pin 1)] connected to: [- 11XT2 motor terminals (W) -11M2]. | | ОК | | Siphesihle Mchunu - 491465 | M1 |



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| 10013 | R | -11M2 Motor terminals PE connected to - 11GND2. | ок | Siphesihle Mchunu - 491465 | M1 |
|-------|---|--|----|-------------------------------|----|
| 10014 | I | Motor 1 | ОК | Siphesihle Mchunu - 491465 | M1 |
| 10015 | R | [-11XR1 connector (local: UND - 11XP1_2.X1 pin 1)] connected to: [- 11XT1 motor terminals (U) -11M1]. | ок | Siphesihle Mchunu - 491465 | M1 |
| 10016 | R | [-11XR1 connector (local: UND - 11XP1_2.X2 pin 1)] connected to: [- 11XT1 motor terminals (V) -11M1]. | ок | Siphesihle Mchunu - 491465 | M1 |
| 10017 | R | [-11XR1 connector (local: UND - 11XP1_2.X3 pin 1)] connected to: [- 11XT1 motor terminals (W) -11M1]. | ОК | Siphesihle Mchunu - 491465 | M1 |
| 10018 | R | -11M1 Motor terminals PE connected to - 11GND1. | ок | Siphesihle Mchunu - 491465 | M1 |
| 10019 | I | Visual Inspection | ОК | Siphesihle Mchunu - 491465 | M1 |
| 10020 | I | For motor 3 and motor 4 connect 11XR3 and 11XR4 and visually inspect that the following cables are connected. From - 11XR3 connector to -11M3 motor and - 11XR4 connector to -11M4 motor respectively. NOTE: the cable configuration should be straight, none should cross the other | ОК | Siphesihle Mchunu - 491465 | M1 |
| 10021 | I | Motor 3 | ок | Siphesihle Mchunu - 491465 | M1 |
| 10022 | R | [-11XR3 connector (local: UND - 11XP3_2.X1 pin 1)] connected to: [- 11XT3 motor terminals (U) -11M3]. | ОК | Siphesihle Mchunu - 491465 | M1 |
| 10023 | R | [-11XR3 connector (local: UND - 11XP3_2.X2 pin 1)] connected to: [- 11XT3 motor terminals (V) -11M3]. | ОК | Siphesihle Mchunu - 491465 | M1 |
| 10024 | R | [-11XR3 connector (local: UND - 11XP3_2.X3 pin 1)] connected to: [- 11XT3 motor terminals (W) -11M3]. | ОК | Siphesihle Mchunu - 491465 | M1 |
| 10025 | R | -11M3 Motor terminals PE connected to - 11GND3 | ОК | Siphesihle Mchunu - 491465 | M1 |
| 10026 | I | Motor 4 | ОК | Siphesihle Mchunu - 491465 | M1 |
| 10027 | R | [-11XR4 connector (local: UND - 11XP4_2.X1 pin 1)] connected to: [- | ОК | Siphesihle Mchunu - 491465 | M1 |



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| | | 11XT4 motor terminals (U) -11M4]. | | | |
|-------|---|---|----|-------------------------------|----|
| 10028 | R | [-11XR4 connector (local: UND - 11XP4_2.X2 pin 1)] connected to: [- 11XT4 motor terminals (V) -11M4]. | ОК | Siphesihle Mchunu - 491465 | M1 |
| 10029 | R | [-11XR4 connector (local: UND - 11XP4_2.X3 pin 1)] connected to: [- 11XT4 motor terminals (W) -11M4]. | ок | Siphesihle Mchunu - 491465 | M1 |
| 10030 | R | -11M4 Motor terminals PE connected to - 11GND4. | ок | Siphesihle Mchunu - 491465 | M1 |



Document Reference GIB0000006488 Version: A0

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Section 6 – Report summaries

6.2 Results status

| Test Instruction Sheet | Compliant | Incomplete | Non-compliant |
|--|-----------|------------|---------------|
| Traction Motors | X | | |
| Reflectometry | X | | |
| Protective Bonding and Return Current | X | | |
| Config | X | | |

6.3 Tools used.

| Function | Tool name | Tool number | Next Calibration date |
|----------|------------------------|----------------------|-----------------------|
| 012_PB | Megger | Megger | 8/25/2025 |
| 025_NET | Cable Analyser DSX5000 | Fluke machine_Ubunye | 6/23/2024 |

| Vehicle | Equipment | Expected version | Version loaded |
|---------|-----------|------------------|----------------|
| M1 | | | |