



REVOLUTION SLCX

Installation & Maintenance

Installation Instructions

1.0 General

- 1.1 It is important these Installation and Maintenance Instructions are fully adhered to.
- 1.2 Full details of the unit supplied are shown on the product nameplate. If in doubt about any detail contact Elta Ltd or its agents for clarification.
- 1.3 All electrical installation must be carried out by suitably qualified and competent personnel in accordance with all current statutory requirements.
- 1.4 These instructions cover only the Elta Ltd product and do not include the supply or installation of any safety equipment that may be required e.g. adequate guarding or protection from rotating parts and proper electrical isolation.
- 1.5 Any declarations made by Elta Ltd about product installation and safety, are dependent on the fan equipment being used within installations which themselves meet the requirements of the relevant Standards and Directives of your region.
- 1.6 Electrical Installation shall comply with BS7671 and EN60079-0.
- 1.7 The fan must be protected to IP20 as described in EN60529 to protect against foreign particles.
- 1.8 The hazardous area in which the fan may be installed is defined by the ATEX code, which can be found on the fan label, drawing and Certificate of Conformity.
- 1.9 The fan is designed for use in an ambient temperature of -20°C up to +40°C.
- 1.10 Zone separation between the inside and outside of the fan can be no more than one zone (e.g. Zone 1 inside the fan, Zone 2 outside the fan).- Except when installed using a flexible duct connection where there is no Zone separation.
Note:- NOT SUITABLE FOR 'Zone 0' USE!
- 1.11 The ignition minimizing properties of the fan and its accessories can only be retained if routine inspections, services and cleaning are carried out.
- 1.12 The installer should provide easy access to the fan to facilitate future maintenance.
- 1.13 The installer should ensure the fan is adequately supported.
- 1.14 This product is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the product by a person responsible for their safety.
Children should be supervised to ensure that they do not play with the product
- 1.15 At end-of-life, the unit must be disposed of in an environmentally friendly manner by suitably qualified and competent personnel in accordance with the requirements of applicable Standards and Directives.

2.0 Installation

WARNING – The fan must be isolated from the power supply during installation and maintenance.

- 2.1 Upon receipt, the fan equipment should be visually inspected to check for any damage. Ensure that the impeller is free to rotate.
- 2.2 If there are any queries concerning the fan equipment, Elta Ltd should be contacted prior to the installation.
- 2.3 The fan must be securely mounted in the desired position to suit the application. The fan can be mounted at any angle.
- 2.4 Check the details on the motor rating plate to ensure that the correct power supply is available. An incorrect power supply will lead to permanent damage to the fan motor.
- 2.5 Refer to the appropriate wiring diagram.
- 2.6 Means for electrical disconnection must be incorporated in the installation wiring in accordance with the relevant wiring and electrical regulations.
- 2.7 All flanges must be sealed with adequate sealant to ensure that leakage is minimized. Elta Ltd recommends the use of an oil/diesel resistant general purpose silicone sealant.

3.0 Start Up

- 3.1 Before power is supplied to the unit, check that the wiring is correct as per the fan connection diagram.
- 3.2 At initial start-up, check that impeller rotation and airflow direction is correct.
- 3.3 Check that the motor amperage draw does not exceed the nameplate rating.

WARNING – Elta Ltd should be consulted in instances where speed controllers or inverter devices are to be used.

4.0 Fan Maintenance

- 4.1 Inspection of the fan should be carried out in line with the maintenance instructions in Tables 1 & 2 to ensure that the motor, fan blades, and supporting guards, are clean and assess the condition of gaskets and fixings.
- 4.2 Any build up of dust and deposits on the blades or guards should be removed using a non-abrasive cleaner.
- 4.3 All fastenings should be checked for tightness. In addition, all rotating items should be checked.
- 4.4 Bearings are of the 'sealed for life' type and will not need a detailed inspection.

Installation Instructions

Table 1: Operational Maintenance

Product Code	Wiring Diagram No.
Inspect AV mounts for Corrosion or "Sag"	6 months
Check earth bonding	6 months
Dampers check rubber stops and grease (lithium based) pivot points, by removing plastic caps	Yearly
Check fixings tightness and conditions of brass track and rivets	26,000 hours / 3 years
Inspect and clean impeller	26,000 hours / 3 years
Remove dirt from motor cooling fins	26,000 hours / 3 years
Check operation of anti-condensation heaters	26,000 hours / 3 years
Check for even tip clearance between impeller and casing – For ATEX 10% of motor shaft diameter with 2mm minimum and 13mm maximum.	26,000 hours / 3 years
Check motor Amps	26,000 hours / 3 years
Any corrosion - treat with suitable chemicals	26,000 hours / 3 years
Check casing seals	26,000 hours / 3 years

Table 2: Terminal Box Maintenance

Activity	Frequency
Check that lid seal is in place and not damaged	Each time the enclosure is opened
Check that lid fixing screws are in place and secured	Each time the enclosure is closed
Check that the mounting bolts are tight and free from corrosion	Annually
Check security of all cable glands	Annually
Check that all screw clamp terminals are secure	Annually and each time enclosure is opened
Check enclosure for damage	Annually

5.0 Storage

- 5.1 If the fan is not to be used immediately then it should be stored in a clean, dry, vibration free and lockable location.
- 5.2 The impeller must be spun by hand (ensuring that it does not come to rest in the same position) on a monthly basis to prevent hardening of the grease and possible damage to the bearings.
- 5.3 All items to be stored on pallets that afford adequate protection from damage, dust and high humidity.
- 5.4 If storage periods of longer than 1 month are anticipated then Elta (or their Agent) should be contacted prior to storage taking place, to ensure the storage area provisions will not be detrimental to the well being of Elta products.

6.0 Guarantee

Elta Ltd will, free of charge, within a period of 1 year from the date of dispatch from their works, repair or at its option replace any goods which are proved to have defects as a result of defective materials or workmanship. The goods MUST be returned to Elta Ltd carriage paid for examination.

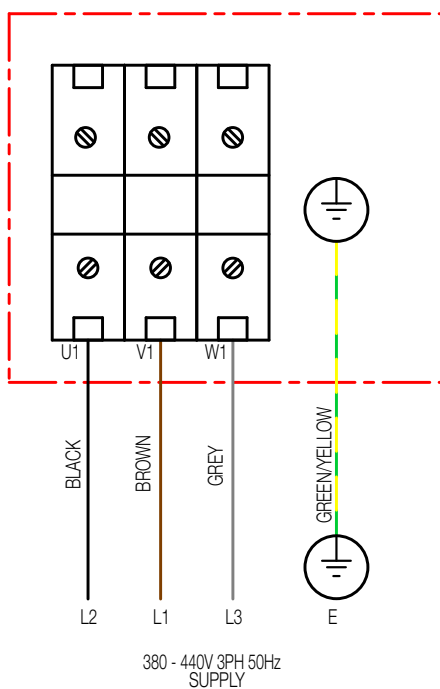
Wiring Diagrams

Please use the table(s) below to match up the product code and the wiring diagram number.

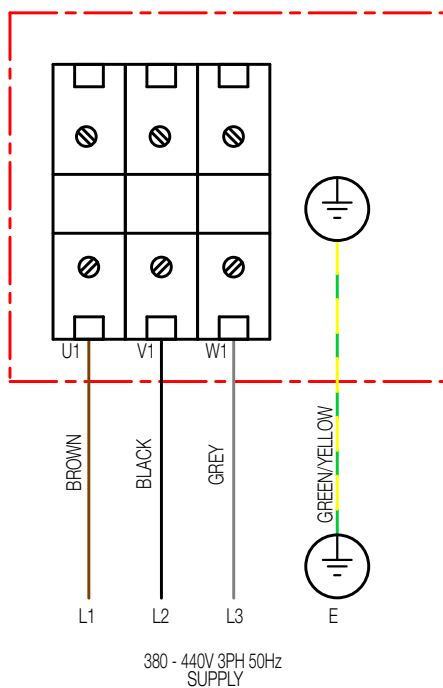
Three Phase 380V - 415V / 50Hz

Page No.	Product Code	Wiring Diagram No.
5	SLCX355/4-3	152-612
5	SLCX400/2-3	152-612
5	SLCX400/4-3	152-612
5	SLCX450/2-3A	152-612
5	SLCX450/4-3B	152-612
5	SLCX500/2-3	152-612
5	SLCX500/2-3B	152-612
5	SLCX500/4-3	152-612
5	SLCX560/4-3	152-612
5	SLCX630/4-3	152-612
5	SLCX710/4-3	152-612

FIXED SPEED Δ CONNECTION 'B' FLOW



FIXED SPEED Δ CONNECTION 'A' FLOW



All wiring and control equipment must comply to the latest IEE regulations, in particular part 552-01-02/03.

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Check the individual product accessories table for fan controller compatibility.

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Notes

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Notes

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535-IOM0043-05-2023 Issue B



BS EN ISO 9001:2015 FM 556465

