



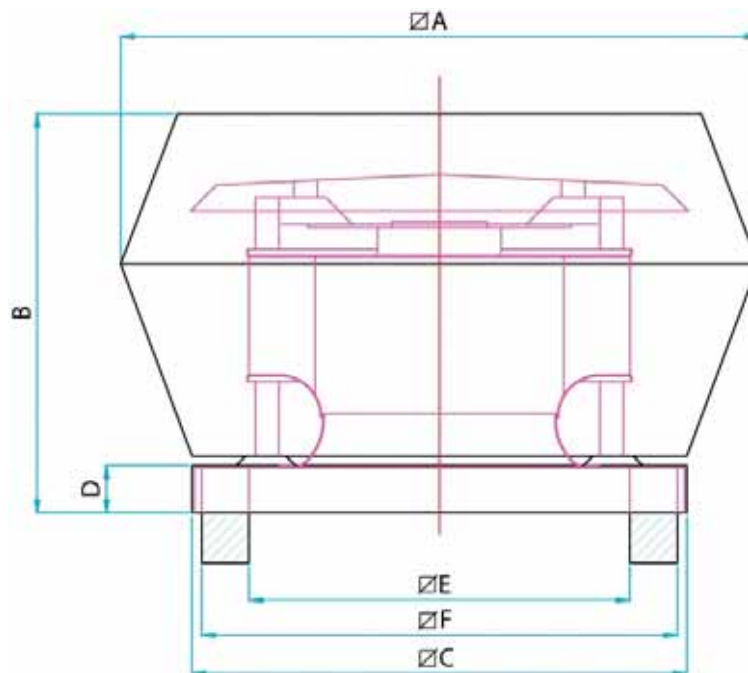
## Heritage SCH Installation and Maintenance Instructions

**THESE INSTRUCTIONS MUST BE READ FULLY BEFORE  
COMMENCING INSTALLATION**

Code	Supply	FL Amps	Output kW	r/min
SCH315/6-2	230V/1Ph/50Hz	0.54	0.07	900
SCH315/4-2	230V/1Ph/50Hz	0.66	0.15	1380
SCH350/6-2	230V/1Ph/50Hz	0.32	0.07	900
SCH350/4-2	230V/1Ph/50Hz	1.25	0.28	1380
SCH400/6-2	230V/1Ph/50Hz	0.88	0.20	900
SCH400/4-2	230V/1Ph/50Hz	2.00	0.42	1380
SCH450/6-2	230V/1Ph/50Hz	2.00	0.43	900
SCH450/4-2	230V/1Ph/50Hz	3.50	0.76	1380
SCH500/6-2	230V/1Ph/50Hz	2.50	0.53	900
SCH560/6-2	230V/1Ph/50Hz	4.10	0.84	900

Code	Supply	FL Amps	Output kW	r/min
SCH315/6-3	400V/3Ph/50Hz	0.15	0.09	900
SCH315/4-3	400V/3Ph/50Hz	0.37	0.18	1380
SCH350/6-3	400V/3Ph/50Hz	0.22	0.13	900
SCH350/4-3	400V/3Ph/50Hz	0.51	0.19	1380
SCH400/6-3	400V/3Ph/50Hz	0.73	0.23	900
SCH400/4-3	400V/3Ph/50Hz	1.40	0.45	1380
SCH450/6-3	400V/3Ph/50Hz	0.90	0.44	900
SCH450/4-3	400V/3Ph/50Hz	1.47	0.77	1380
SCH500/6-3	400V/3Ph/50Hz	1.20	0.65	900
SCH500/4-3	400V/3Ph/50Hz	2.60	1.30	1380
SCH560/6-3	400V/3Ph/50Hz	1.45	0.69	900
SCH560/4-3	400V/3Ph/50Hz	4.10	2.16	1380
SCH630/6-3	400V/3Ph/50Hz	2.20	1.10	900
SCH630/4-3	400V/3Ph/50Hz	7.35	4.30	1380

Code	A	B	C	D	E	F	Weight kg	
							4-Pole	6-Pole
SCH315	520	310	430	50	310	410	16	16
SCH350	670	420	520	50	400	500	26	26
SCH400	670	420	520	50	400	500	26	26
SCH450	900	540	740	60	620	720	49	49
SCH500	900	540	740	60	620	720	57	51
SCH560	900	540	740	60	620	720	65	56
SCH630	1160	670	830	60	710	810	97	78



## 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 Fans 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 Fans 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 Fans Ltd about product installation and safety, are dependant on the fan equipment being used within installations which themselves meet the requirements of the relevant Standards and Directives of your region.
- 1.6 The fan is designed for use in an ambient temperature of  $-20^{\circ}\text{C}$  up to  $+50^{\circ}\text{C}$  and up to 95% relative humidity. The fan is not suitable for corrosive or explosive atmospheres.
- 1.7 The installer should provide easy access to the fan to facilitate future maintenance.
- 1.8 The installer should ensure the fan is adequately supported.
- 1.9 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.

## 2.0 INSTALLATION

**WARNING – The fan must be isolated from the power supply during installation and maintenance. The fan must be earthed in accordance with the local regulations.**

- 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 Fans 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 on flat or inclined roofs with a maximum pitch angle of 30° .
- 2.4 Position the assembled roof fan unit onto the curb and secure to the timber sill with M10 coach bolts (not supplied by Elta Fans), ensuring that fibre washers are positioned under each bolt head. It is advisable to drill pilot holes prior to fitting the bolts to prevent splitting the timber curb.
- 2.5 Check the details on the motor rating plate to ensure that the correct power supply (voltage, frequency and phase) is available.  
An incorrect power supply will lead to permanent damage to the fan motor.
- 2.6 Refer to the appropriate wiring diagram. Ensure that all earth connections are made.
- 2.7 Means for electrical disconnection must be incorporated in the wiring installation in accordance with the relevant wiring and electrical regulations.
- 2.8 Precaution must be taken to locate the exhaust discharge terminal so as to avoid the backflow of gases into the room from the open flue of gas or other fuel burning appliances.

## 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.

## 4.0 FAN MAINTENANCE

- 4.1 Inspection of the fan at least once every 12 months is recommended to ensure that the motor, fan blades, and supporting guards, are clean. Any build up of dust and deposits on the blades or guards should be removed using a non-abrasive cleaner.
- 4.2 All fastenings should be checked for tightness. In addition, all rotating items should be checked.
- 4.3 Bearings are of the 'sealed for life' type and will not need a detailed inspection.

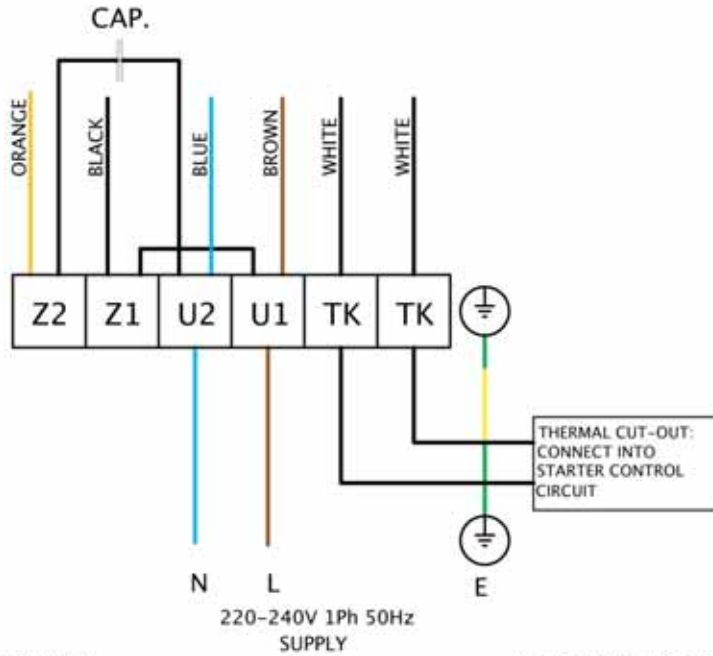
**WARNING – This fan is fitted with an auto-reset thermal contact which switches the fan off in the event of a fault condition.**

**Once the motor cools down the fan may start unexpectedly.**

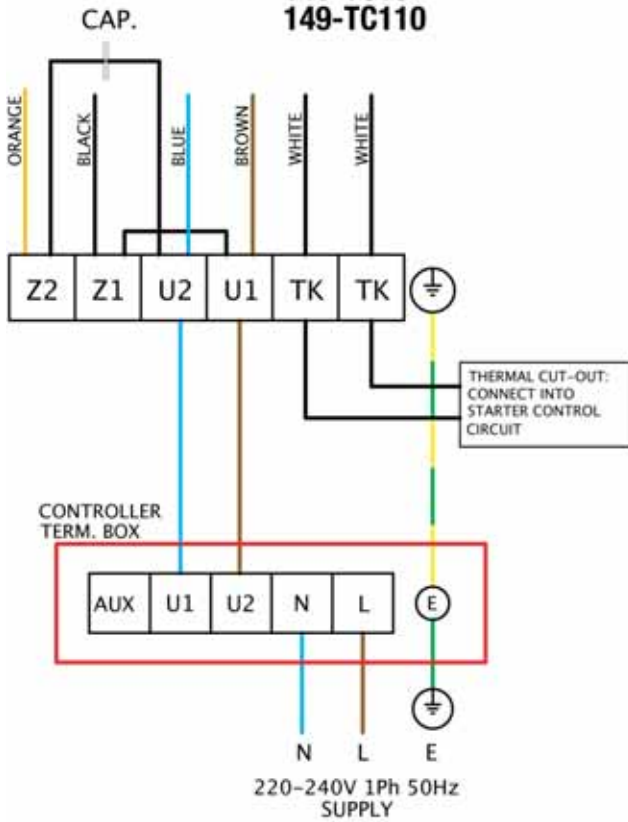
**Only a suitably qualified and competent person may carry out maintenance after the electrical supply has been isolated.**

**WIRING**

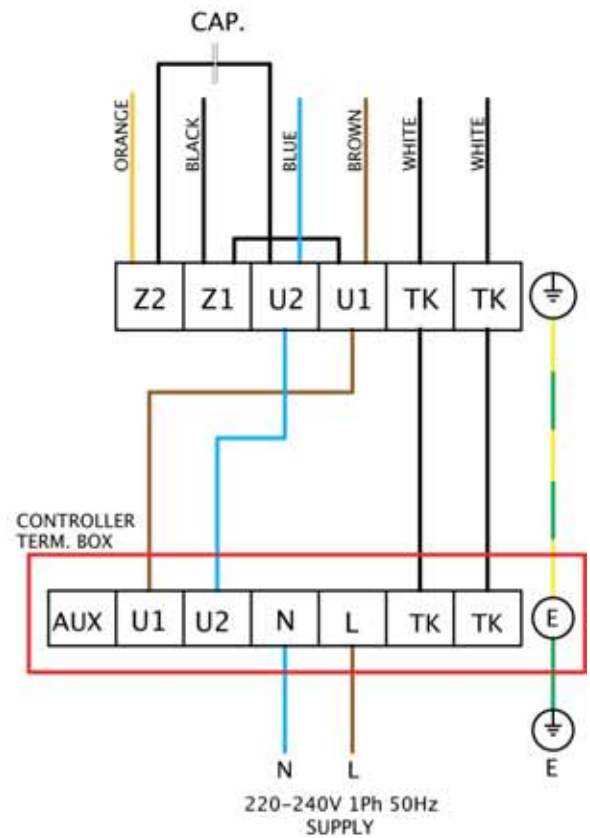
**FIXED SPEED CONNECTION**



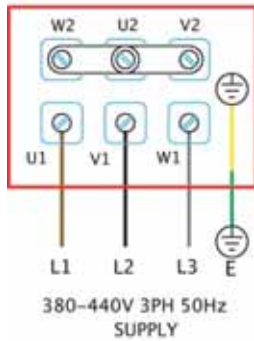
**VARIABLE SPEED CONNECTION  
CONTROLLER TYPE: 149-TC12  
149-TC14  
149-TC18  
149-TC110**



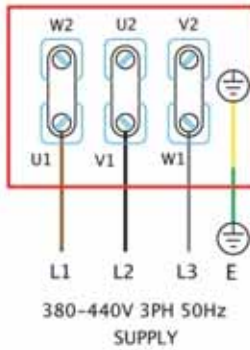
**VARIABLE SPEED CONNECTION  
CONTROLLER TYPES: 149-EL31TK  
149-EL61TK**



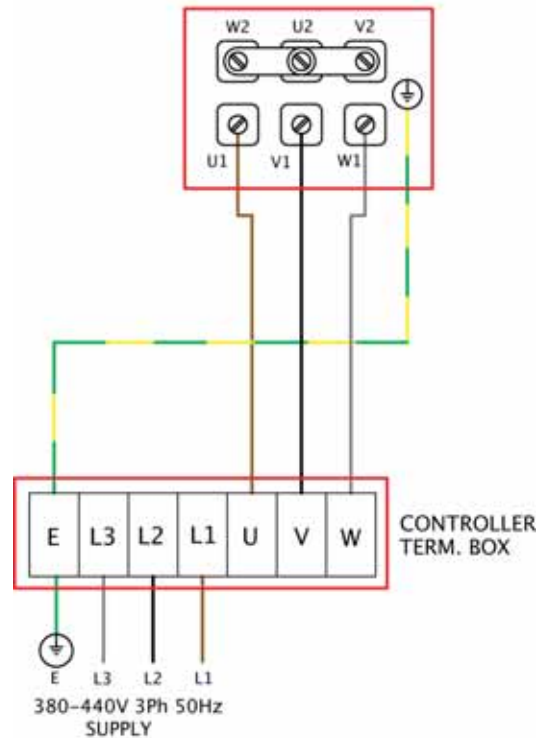
**FIXED SPEED  
STAR CONNECTION**



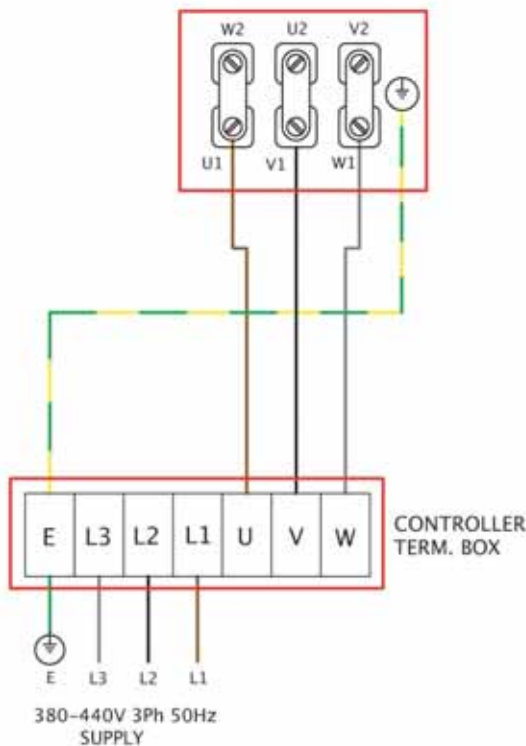
**FIXED SPEED  
DELTA CONNECTION**



**VARIABLE SPEED STAR CONNECTION  
CONTROLLER TYPE: 149-TC33  
149-TC35  
149-TC310**



**VARIABLE SPEED DELTA CONNECTION  
CONTROLLER TYPE: 149-TC33  
149-TC35  
149-TC310**



**GUARANTEE**

Elta Fans Ltd will, free of charge, within a period of 1 year from the date of despatch 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 Fans Ltd carriage paid for examination.

**Elta Fans Ltd**

17 Barnes Wallis Road  
Segensworth East Industrial Estate  
Fareham, Hampshire, PO15 5ST, United Kingdom

**Visit:** [eltafans.com](http://eltafans.com)

**e-mail:** [mailbox@eltafans.co.uk](mailto:mailbox@eltafans.co.uk)

**Applied Technology:** **Tel:** +44(0) 1489 566500

**Fax:** +44(0) 1489 566555

**Building Services:** **Tel:** +44(0) 1384 275800

**Fax:** +44(0) 1384 275810

**Export:** **Tel:** +44(0) 1489 566500

**Fax:** +44(0) 1489 566555