



# Revolution SLC

## Installation and Maintenance Instructions

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

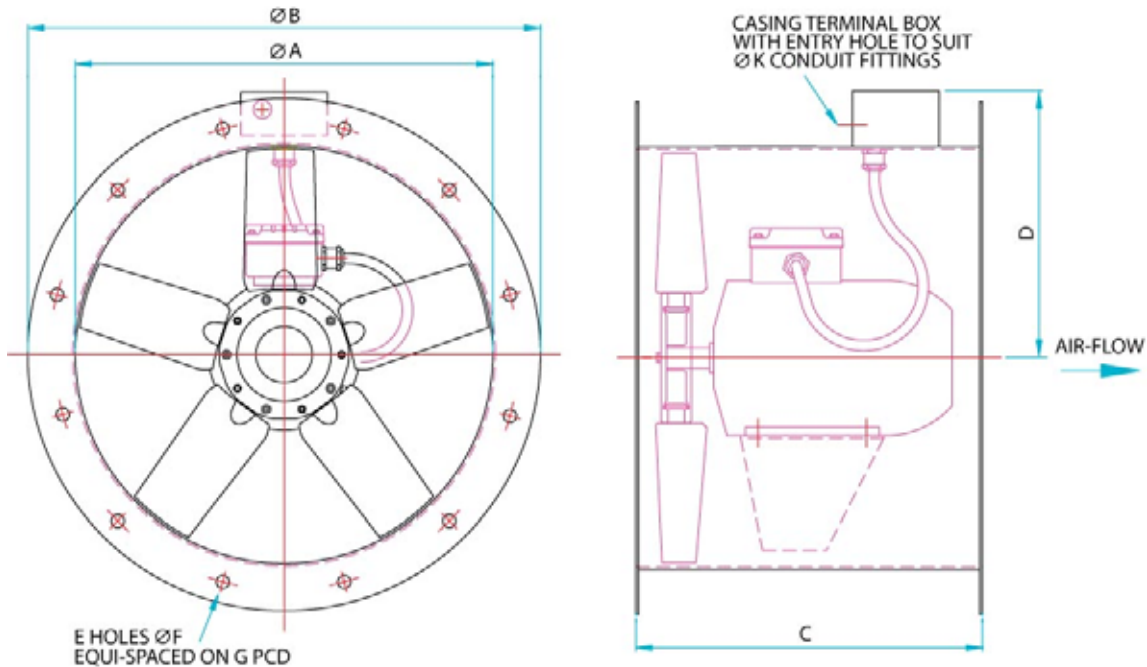
Code	Supply	FL Amps	Output kW	r/min
SLC315/4-2	230V/1Ph/50Hz	1.09	0.12	1300
SLC315/2-1	230V/1Ph/50Hz	3.20	0.55	2750
SLC355/4-2	230V/1Ph/50Hz	1.51	0.18	1300
SLC355/2-1	230V/1Ph/50Hz	6.30	1.1	2820
SLC400/4-2	230V/1Ph/50Hz	2.56	0.37	1350
SLC400/2-1	230V/1Ph/50Hz	8.10	1.5	2780
SLC450/4-2A	230V/1Ph/50Hz	2.56	0.37	1350
SLC450/4-2B	230V/1Ph/50Hz	3.70	0.55	1350
SLC450/2-1	230V/1Ph/50Hz	8.10	1.5	2780
SLC500/4-2A	230V/1Ph/50Hz	2.56	0.37	1350
SLC500/4-2B	230V/1Ph/50Hz	4.52	0.75	1380
SLC560/4-2A	230V/1Ph/50Hz	4.52	0.75	1380
SLC560/4-2B	230V/1Ph/50Hz	6.28	1.0	1350
SLC630/6-1A	230V/1Ph/50Hz	2.30	0.37	950
SLC630/6-1B	230V/1Ph/50Hz	3.92	0.55	950
SLC630/4-2	230V/1Ph/50Hz	6.28	1.0	1350

Code	Supply	FL Amps	Output kW	r/min
SLC315/4-3	400V/3Ph/50Hz	0.44	0.12	1365
SLC315/2-3	400V/3Ph/50Hz	1.40	0.55	2780
SLC355/4-3	400V/3Ph/50Hz	0.62	0.18	1340
SLC355/2-3A	400V/3Ph/50Hz	2.50	1.1	2800
SLC355/2-3B	400V/3Ph/50Hz	4.80	2.2	2840
SLC400/4-3	400V/3Ph/50Hz	1.12	0.37	1390
SLC400/2-3	400V/3Ph/50Hz	4.80	2.2	2840
SLC450/4-3A	400V/3Ph/50Hz	1.12	0.37	1390
SLC450/4-3B	400V/3Ph/50Hz	1.57	0.55	1365
SLC450/2-3A	400V/3Ph/50Hz	4.80	2.2	2840
SLC450/2-3B	400V/3Ph/50Hz	8.82	4.0	2850
SLC500/4-3A	400V/3Ph/50Hz	1.12	0.37	1390
SLC500/4-3B	400V/3Ph/50Hz	2.00	0.75	1370
SLC500/4-3C	400V/3Ph/50Hz	2.90	1.1	1380
SLC500/2-3A	400V/3Ph/50Hz	8.82	4.0	2850
SLC500/2-3B	400V/3Ph/50Hz	10.3	5.5	2935
SLC560/4-3A	400V/3Ph/50Hz	2.00	0.75	1370

SLC560/4-3B	400V/3Ph/50Hz	2.90	1.1	1380
SLC560/4-3C	400V/3Ph/50Hz	3.70	1.5	1390
SLC560/2-3	400V/3Ph/50Hz	13.6	7.5	2920
SLC630/6-3A	400V/3Ph/50Hz	1.11	0.37	925
SLC630/6-3B	400V/3Ph/50Hz	1.61	0.55	920
SLC630/4-3A	400V/3Ph/50Hz	2.50	1.1	1380
SLC630/4-3B	400V/3Ph/50Hz	5.20	2.2	1400
SLC710/6-3A	400V/3Ph/50Hz	1.61	0.55	920
SLC710/6-3B	400V/3Ph/50Hz	4.30	1.5	940
SLC710/4-3A	400V/3Ph/50Hz	6.78	3.0	1405
SLC710/4-3B	400V/3Ph/50Hz	8.82	4.0	1420
SLC800/6-3A	400V/3Ph/50Hz	4.30	1.5	940
SLC800/6-3B	400V/3Ph/50Hz	5.36	2.2	940
SLC800/4-3A	400V/3Ph/50Hz	8.82	4.0	1420
SLC800/4-3B	400V/3Ph/50Hz	10.6	5.5	1470
SLC900/8-3	400V/3Ph/50Hz	4.08	1.5	710
SLC900/6-3A	400V/3Ph/50Hz	5.36	2.2	930
SLC900/6-3B	400V/3Ph/50Hz	6.82	3.0	950
SLC900/4-3A	400V/3Ph/50Hz	14.2	7.5	1470
SLC900/4-3B	400V/3Ph/50Hz	21.0	11	1470
SLC1000/8-3	400V/3Ph/50Hz	4.08	1.5	710
SLC1000/6-3A	400V/3Ph/50Hz	5.36	2.2	930
SLC1000/6-3B	400V/3Ph/50Hz	6.82	3.0	950
SLC1000/4-3A	400V/3Ph/50Hz	14.2	7.5	1470
SLC1000/4-3B	400V/3Ph/50Hz	21.0	11	1470
SLC1000/4-3C	400V/3Ph/50Hz	28.4	15	1460

<b>Code</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>K</b>	<b>Wght kg 1Ph</b>	<b>Wght kg 3Ph</b>
SLC315	315	375	300	225	8	10	355	20	17	17
SLC355	355	425	375	245	8	10	395	20	21	26
SLC400	400	475	400	265	8	12	450	20	27	31
SLC450	450	530	375	290	8	12	500	20	30	30
SLC450/2-3B	450	530	450	290	8	12	500	25	-	45
SLC500	500	585	400	315	12	12	560	20	33	33
SLC500/2-3	500	585	450	315	12	12	560	25	-	52
SLC560	560	645	400	345	12	12	620	20	40	40
SLC560/2-3	560	645	570	345	12	12	620	25	-	96
SLC630	630	715	400	380	12	12	690	20	50	47
SLC630/4-3B	630	715	450	380	12	12	690	20	-	58
SLC710	710	795	450	420	16	12	770	20	-	70
SLC710/4-3B	710	795	450	420	16	12	770	25	-	72
SLC800	800	885	450	465	16	12	860	25	-	75
SLC800/4-3B	800	885	570	465	16	12	860	25	-	97
SLC900/8-3	900	1000	450	465	16	15	970	25	-	107
SLC900/6-3A	900	1000	450	515	16	15	970	25	-	107

SLC900/6-3B	900	1000	570	515	16	15	970	25	-	127
SLC900/4-3A	900	1000	570	515	16	15	970	25	-	135
SLC900/4-3B	900	1000	710	515	16	15	970	32	-	183
SLC1000	1000	1110	590	565	16	15	1070	25	-	143
SLC1000/4-3B	1000	1110	790	565	16	15	1070	32	-	222
SLC1000/4-3C	1000	1110	790	565	16	15	1070	32	-	239



## 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  $+54^{\circ}\text{C}$  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 at any angle.

- 2.4 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.
- 2.5 Refer to the appropriate wiring diagram. Ensure that all earth connections are made.
- 2.6 Means for electrical disconnection must be incorporated in the wiring installation in accordance with the relevant wiring and electrical regulations.
- 2.7 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.

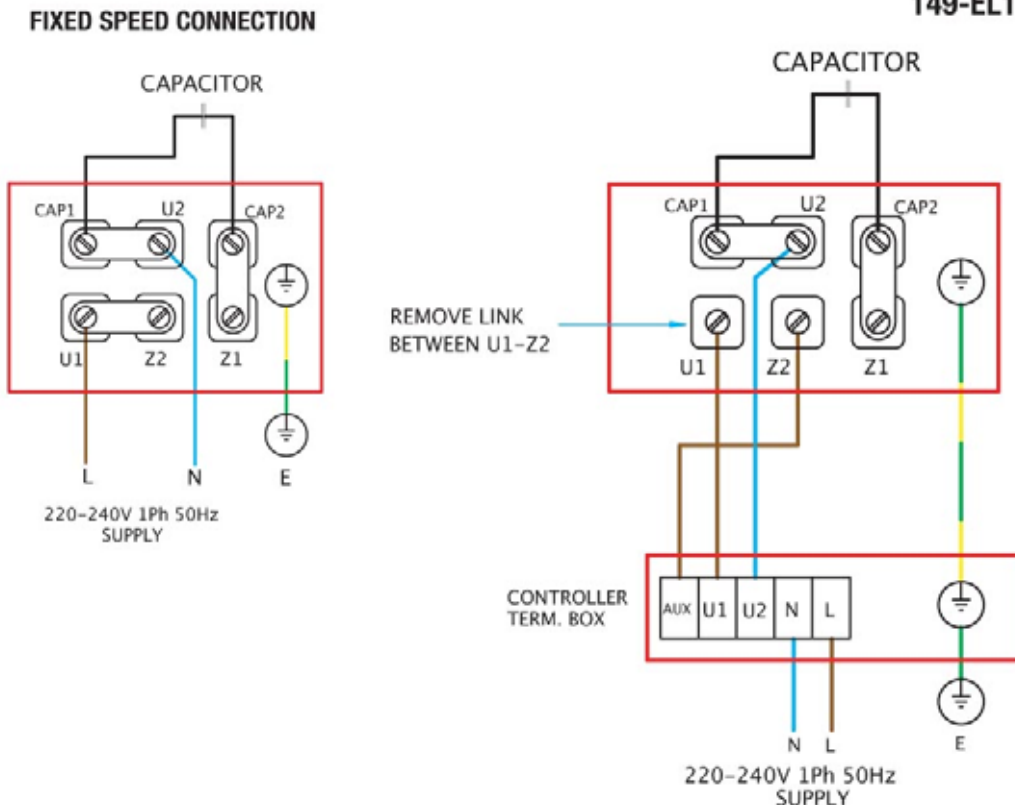
### 4.0 FAN MAINTENANCE

- 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.

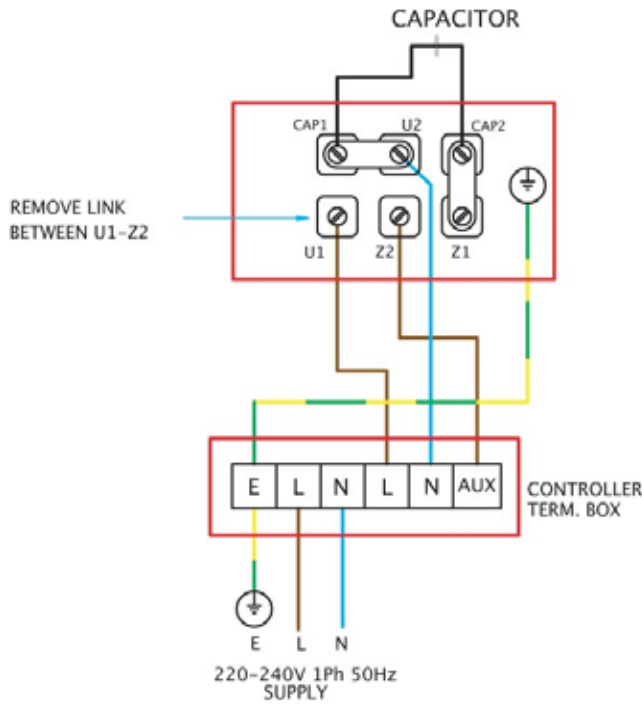
**WARNING – Fuses/circuit breakers are used to provide short circuit protection only. A starter panel with overload protection should be used to protect the motor. Only a suitably qualified and competent person may carry out maintenance after the electrical supply has been isolated.**

### WIRING

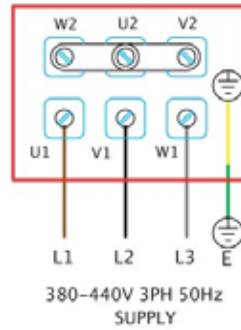
#### VARIABLE SPEED CONNECTION SPEED CONTROLLER TYPES: 149-EL31 149-EL61 149-EL101



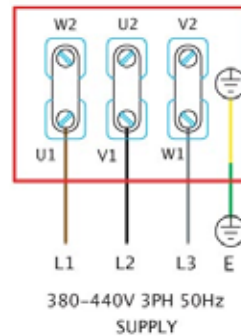
**VARIABLE SPEED CONNECTION**  
**SPEED CONTROLLER TYPES: 149-TC12**  
**149-TC14**  
**149-TC18**  
**149-TC110**



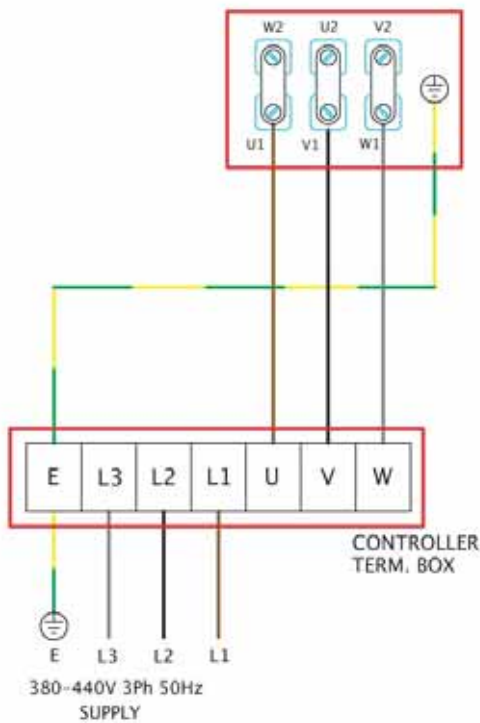
**FIXED SPEED STAR CONNECTION**



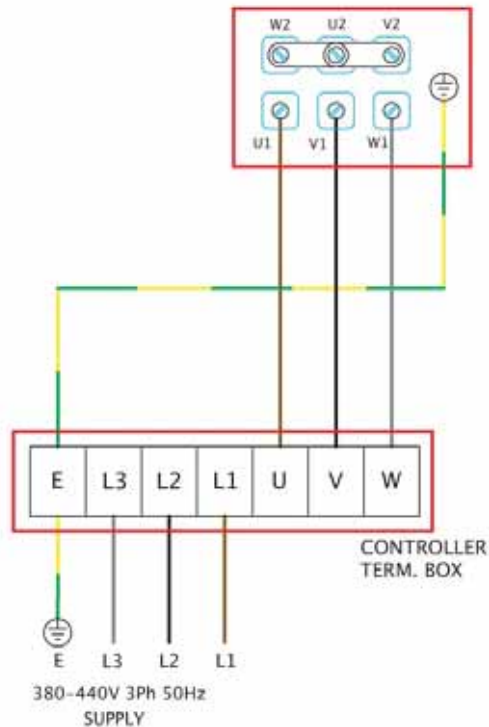
**FIXED SPEED DELTA CONNECTION**



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



**VARIABLE SPEED STAR 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.

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