



## Electronic Controllers

The 2.5 amp controller provides electronic motor speed control. On/Off with neon indicator, infinitely variable speed slider control, minimum speed presettable and optional sensor mode. Connections for use with external sensors are provided.

3 and 6 amp electronic controllers provide infinitely variable speed control from preset minimum to maximum. Features an On/Off switch with neon indicator and speed control knob. Built in 'Hard Start' auto maximum speed for a few seconds.

10 amp electronic controller provides infinitely variable speed control from preset minimum to maximum and feature On/Off Override switch for maximum speed. Neon indicator and built-in 'Hard Start' auto-maximum speed for a few seconds.

**NB. For ambient temperatures between 30-40°C the controller rating must be reduced by 2% for every 1°C above 30°C, eg. reduce by 10% at 35°C.**

Stock Ref. No.	Max. amps	Dimensions (mm) W x H x D	Weight (kg)
W10303102M	2.5	156 x 86 x 53	0.4
10303103A	3	150 x 90 x 65	0.5
10303106A	6	150 x 90 x 65	0.5
10303110A	10	167 x 220 x 130	1.3



## Five Step Auto Transformers

Used in conjunction with speed controllable fans to provide 5 stepped speed without electronic motor 'hum'. Several fans can be connected to one transformer provided their combined load does not exceed the controller rating.

Single phase: 3.0, 5.0, 7.5 and 13.6 amp. Three phase: 1.4, 4.0, 7.0 and 11.0 amp.

Rotary switch giving On/Off and five speeds.

Output voltages at 240V/1PH/50Hz 0, 90, 115, 140, 175, 240 volts.

Output voltages at 415V/3PH/50Hz 0, 65, 110, 175, 285, 415 volts.

Neon indicator. Enclosures are protected to IP54.

## Multi-unit Speed Control

When more than one fan is required to be controlled by one Auto Transformer, then the total combined FLC of all the fan units must not exceed 90% of the controllers maximum rating and not more than 2 x the total SC. The TKs must be wired in series.

**Fans without TKs or in-built S.T.O.P must not be wired in multiples.**

## Single Phase

Stock Ref. No.	Max. amps	Dimensions (mm) W x H x D	Weight (kg)
10314103	3	135 x 170 x 117	4
10314105	5	167 x 219 x 108	5
10314107	7.5	200 x 253 x 170	9
10314113	13.6	320 x 240 x 190	13

## Three Phase

Stock Ref. No.	Max. amps	Dimensions (mm) W x H x D	Weight (kg)
10314301	1.4	200 x 253 x 170	6
10314304	4	240 x 320 x 190	13
10314307	7	300 x 400 x 150	27.2
10314311	11	300 x 400 x 150	34.2



## Direct on-line starters

Suitable for all models. Push button Start/Stop. 240V contactor coil for single phase applications and three phase supplies where a neutral is present. 415V contactor coil for three phase supplies where a neutral is not present or required.

Protection is given by an overload relay which is selected to match the load of the fan.

Enclosures are protected to IP65.

## Overloads

Stock Ref.	DOL Rating (Amps)	Star Delta Rating (Amps)
444696	0.16-0.25	-
444697	0.25-0.4	-
444698	0.4-0.63	-
444699	0.63-1.0	-
444700	1.0-1.6	-
444701	1.6-2.25	2.7-4.3
444702	2.5-4.0	4.3-6.9
444703	4.0-6.0	6.9-10
444704	5.5-8.0	9.5-13.8
444705	7-10	12-17
444706	10-13	17-22
444707	13-18	22-31
444708	18-25	31-43
444709	23-32	39-55

## DOL & Star Delta Starters

Part No	Phase	DOL Rating (Amps)	Star Delta Rating (Amps)
444744	1	12	-
444745	1	25	-
444746	1	32	-
444747	3	12	-
444748	3	25	-
444749	3	32	-
444750	3	50	-
444842	-	-	21
444843	-	-	30