

HIGH EFFICIENCY CASED AXIAL JMv AEROFOIL

PRODUCT FACTS

- Volume up to 3.95 m³/s
- Static pressures up to 285 Pa
- Fans tested to ISO5801 and BS848
- High energy efficiency
- Low installed noise levels
- Motor protection and terminal block IP55
- Overheat protection fitted as standard

ELECTRICAL SUPPLY

220-240V/50Hz/1φ

TEMPERATURE RANGE

-40°C to 50°C as standard.
50°C to 70°C must be run at full speed only

SIZES

315, 355, 400, 450, 500, 560 and 630 mm

IMPELLERS

Our impeller design includes features such as unique high efficiency, high twist aerofoil section blades. Which are fitted into an aerodynamically optimised hub and clamp plate, that allows pitch angles to be adjusted. Woods impellers are all high pressure die cast to offer thin aerofoil sections for low generation of noise. Every cast aluminium component is X-ray examined using Real Time Radiography inspection prior to assembly. The maximum pitch angles shown allow for speed control by transformer or electronic controllers.

MOTORS

All motors are totally enclosed air stream rated class F insulation. Constructed from aluminium or cast iron as standard, with special 'T' slot or pad mounted fixings. Single speed, single phase motors are suitable for speed control by voltage regulation where indicated. Suitable for horizontal or vertical shaft operation. Supplied as IP55 as standard, with removable drain plugs.

Bearings are of the "sealed for life" type and are lubricated with wide temperature range grease designed for optimal performance. Our BT and CT frames are fitted with overheat protection which is provided by a thermostat as standard.



CASING

JMv Aerofoil fans are available in a long cased form, complete with an externally mounted pre-wired electrical terminal box. Casings are spun from sheet steel with integral pre-drilled and radiused inlet flanges. The galvanised finish gives a high resistance to corrosion and is ideal for external as well as internal use.

PRODUCT CODE

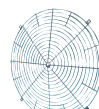
63JMv/20/4/6/35

- 63 - denotes the fan impeller diameter in centimetres
- JMv - denotes fan type
- 20 - denotes impeller hub diameter in centimetres
- 4 - denotes a nominal 4 pole speed
- 6 - denotes the number of blades
- 35 - denotes the pitch angle for the required duty

ACCESSORIES (Pages 230-237) - CONTROLLERS (Pages 249-297)



Damper



Guard



Bellmouth



Flange



Mounting Feet



Rubber AV's



Spring AV's



Flexible Connector



Silencer



Controls Transformer

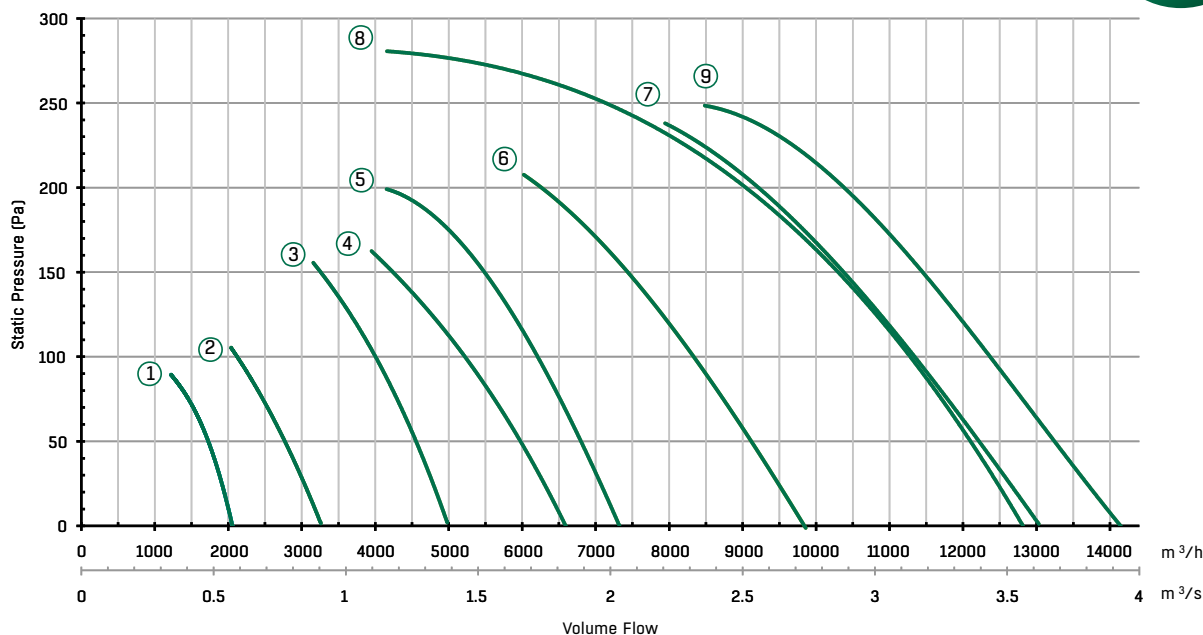


Controls Electronic

JMv PERFORMANCE & ELECTRICAL DATA

220-240V/50HZ/1 ϕ - L TYPE

PERFORMANCE CHART



PERFORMANCE TABLE

Ref	Product Code	m³/s @ Pa (Static)				
		0	50	100	150	200
1	31JMv/14/4/6/29	0.57	0.48			
2	35JMv/14/4/6/31	0.9	0.76	0.58		
3	40JMv/16/4/6/32	1.38	1.26	1.10	0.90	
4	45JMv/16/4/6/28	1.83	1.66	1.45	1.18	
5	50JMv/20/4/6/18	2.04	1.88	1.72	1.52	1.16
6	50JMv/20/4/6/30	2.74	2.52	2.32	2.07	1.74
7	56JMv/20/4/6/25	3.61	3.39	3.14	2.88	2.56
8	63JMv/20/4/6/10	3.58	3.34	3.12	2.85	2.54
9	63JMv/20/4/6/13	3.93	3.67	3.43	3.18	2.88

PRODUCT AND ELECTRICAL DETAILS

Ref	Product Code	Product Number	Pitch Angle (°)		Speed rev/min	Motor	Rating (kW)	Full Load Current (A)	Starting Current (A)	Wiring Diagram	Speed Controller	
			Min	Max							Electronic	Transformer
1	31JMv/14/4/6/29	JV326460	25	29	1340	BT5	0.075	0.53	1.45	CD3022	ME1.1	TEID 1
2	35JMv/14/4/6/31	JV366460	29	31	1340	BT4	0.13	1.05	1.75	CD3022	ME1.3	TEID 1.5A
3	40JMv/16/4/6/32	JV416452	26	32	1400	BT9	0.25	1.56	3.45	CD3022	ME1.3	TEID 2.2A
4	45JMv/16/4/6/28	JV466466	21	28	1340	BT9	0.32	2.2	5.0	CD3022	ME1.3	TEID 2.2A
5	50JMv/20/4/6/18	JV516455	16	18	1340	CT5	0.39	2.9	5.6	CD3022	ME1.3	TEID 3.5A
6	50JMv/20/4/6/30	JV516466	24	30	1340	CT9	0.68	4.8	11.0	CD3022	ME1.6	TEID 5.0A
7	56JMv/20/4/6/25	JV576456	19	25	1340	CT9	0.97	6.9	13.5	CD3022	ME1.6	TEID 7.5A
8	63JMv/20/4/6/10	JV646453	8	10	1340	CT9	0.97	6.9	13.5	CD3022	ME1.6	TEID 7.5A
9	63JMv/20/4/6/13	JV646454	8	13	1340	CT9	0.97	6.9	13.5	CD3022	ME1.6	TEID 7.5A

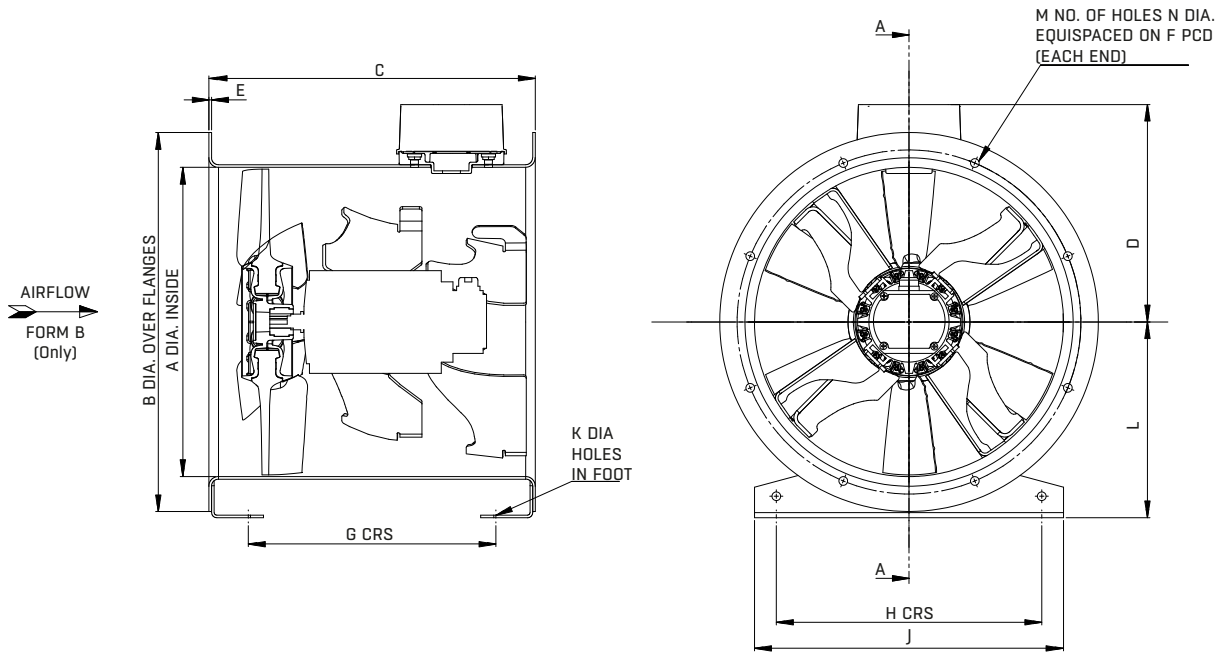
For ErP efficiency ratings and grades please refer to our Fan Selector for more information. For speed controllers please see pages 219-267.

Products in **bold** are available from our UK Distributors on next day delivery, if ordered by 4pm. Please call to confirm availability on 01206 222 580.





DRAWINGS



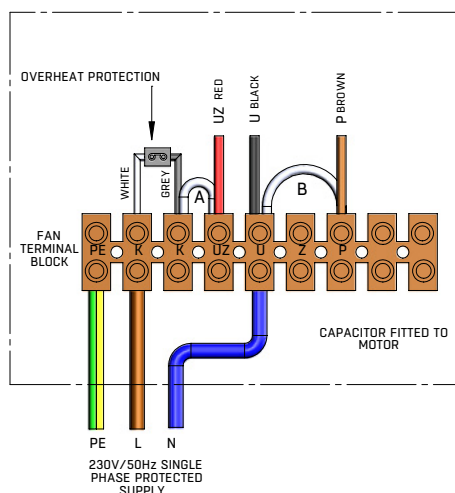
Product Code	Motor frame	A	B	C	D	E	F	G	H	J	K	L	M	N	Weight (KG)
315	BT5	315	395	375	229.5	3	355	285	265	315	10	200	8	10	21
355	BT4	355	435	375	249.5	3	395	285	305	355	10	225	8	10	22
400	BT9	400	480	375	272	3	450	285	350	400	10	250	8	10	25
450	BT9	450	530	375	297	3	500	275	400	450	10	280	8	12	26
500	CT5	500	594	520	322	3	560	420	450	500	10	315	12	12	46
560	CT9	560	654	520	352	3	620	420	510	560	10	355	12	12	54
630	CT9	630	724	520	387	3	690	400	580	630	16	400	12	12	73

All dimensions in mm.

WIRING DIAGRAMS - JMV AEROFOIL

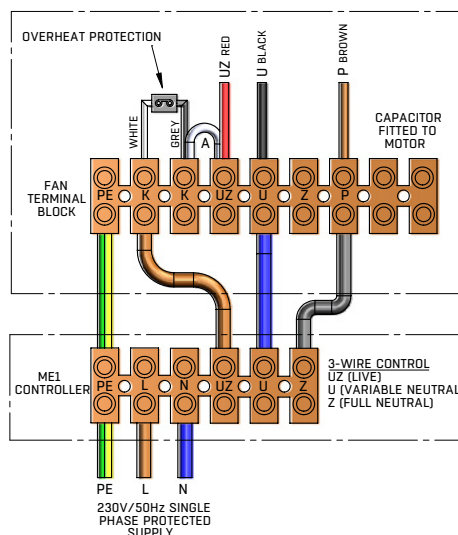
CD3022 - 315-500 JMV 1 PHASE (WITHOUT AND WITH ME SPEED CONTROLLER)

CONNECTION DIAGRAM FOR SINGLE PHASE REMOTE OVERHEAT PROTECTION ACDE ROTATION



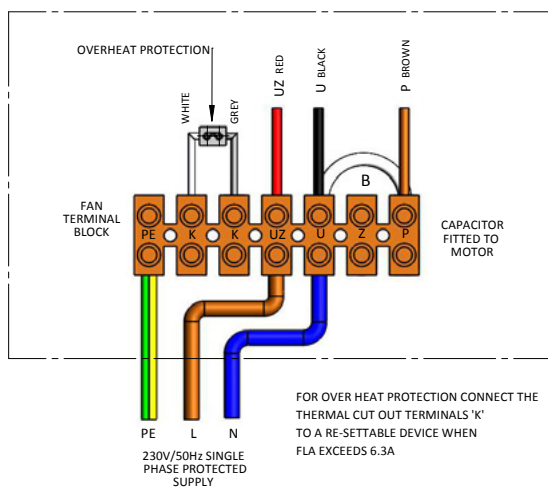
FAN CONNECTED TO SUPPLY (FULL SPEED)

FAN CONNECTED TO SPEED CONTROLLER (VARIABLE SPEED)

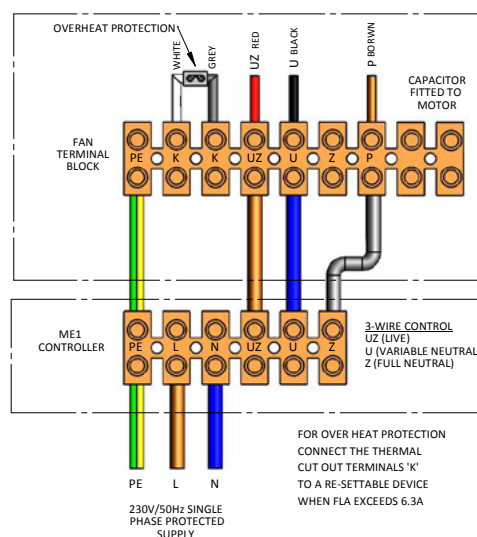


FAN CONNECTED TO SPEED CONTROLLER (VARIABLE SPEED)

CD3022 - 560-630 JMV 1 PHASE (WITHOUT AND WITH ME SPEED CONTROLLER)



FAN CONNECTED TO SUPPLY (FULL SPEED)



FAN CONNECTED TO SPEED CONTROLLER (VARIABLE SPEED)