PLATE FANS
JM PLATE FAN

PRODUCT FACTS

- Air flow up to 8.17 m^3/s
- Static pressures up to 260 Pa
- Motor protection IP55
- Speed controllable
- Supplied fully assembled
- Full range of accessories
- Speed controllable

ELECTRICAL SUPPLY

220-240V/50Hz/1ϕ & 380-420V/50Hz/3ϕ

TEMPERATURE RANGE

-40°C to 50°C as standard. Suitable for 70°C at full speed.

SIZES

315, 355, 400, 450, 500, 560, 630, 710 & 1000 mm

PLATE

Plates manufactured from mild steel with powder coat finish, fans are supplied as standard with motor side guard.

MOTORS

All motors are totally enclosed airstream rated class F insulation. Constructed from aluminium or cast iron as standard with special 'T' slot, or pad mounted fixings Suitable for horizontal through to vertical shaft operation. Supplied IP55 with removable drain plugs. These motors are suitable for inverter speed control down to 20% of full speed.

IMPELLERS

A unique high efficiency aerofoil section blade. 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 frequency inverter.

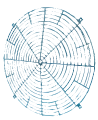
PRODUCT CODE

63JMP/20/4/3/32

- 63 - denotes the Fan impeller diameter in centimetres
- JMP - denotes Plate Fan type
- 20 - denotes impeller hub diameter in centimetres
- 4 - denotes a nominal 4 Pole speed
- 3 - denotes the number of blades
- 32 - denotes the Pitch Angle for the required duty

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


Louvre Shutters


Impeller side Guard


Controls Transformer

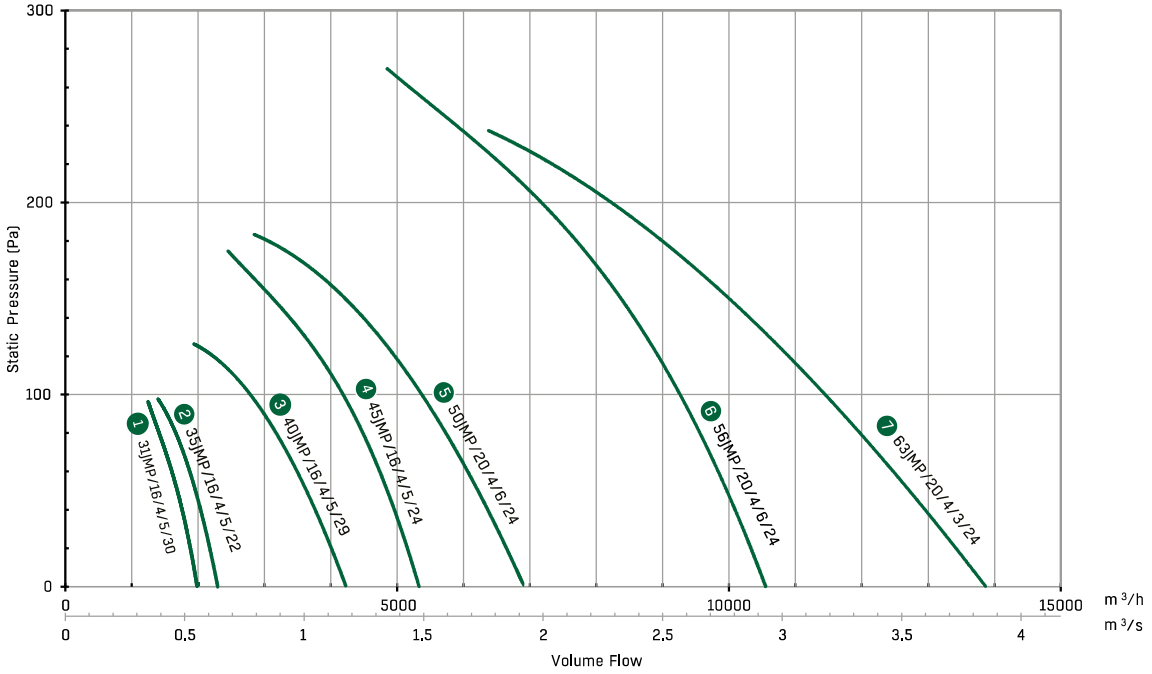

Controls Inverter


Controls Electronic

JMP PERFORMANCE AND ELECTRICAL DATA

220-240V/50HZ/1ϕ

PERFORMANCE CHART



PERFORMANCE TABLE

Ref	Product Code	m³/s at Pa (Static)					
		0	50	100	150	200	250
1	31JMP/16/4/5/30	0.54	0.46				
2	35JMP/16/4/5/22	0.63	0.54				
3	40JMP/16/4/5/29	1.27	1.15	0.99	0.77		
4	45JMP/16/4/5/24	1.48	1.34	1.16	0.87		
5	50JMP/20/4/6/24	1.91	1.76	1.59	1.36	1.03	
6	56JMP/20/4/6/24	2.93	2.77	2.57	2.33	2	1.55
7	63JMP/20/4/3/24	3.86	3.54	3.19	2.79	2.3	

PRODUCT AND ELECTRICAL DETAILS

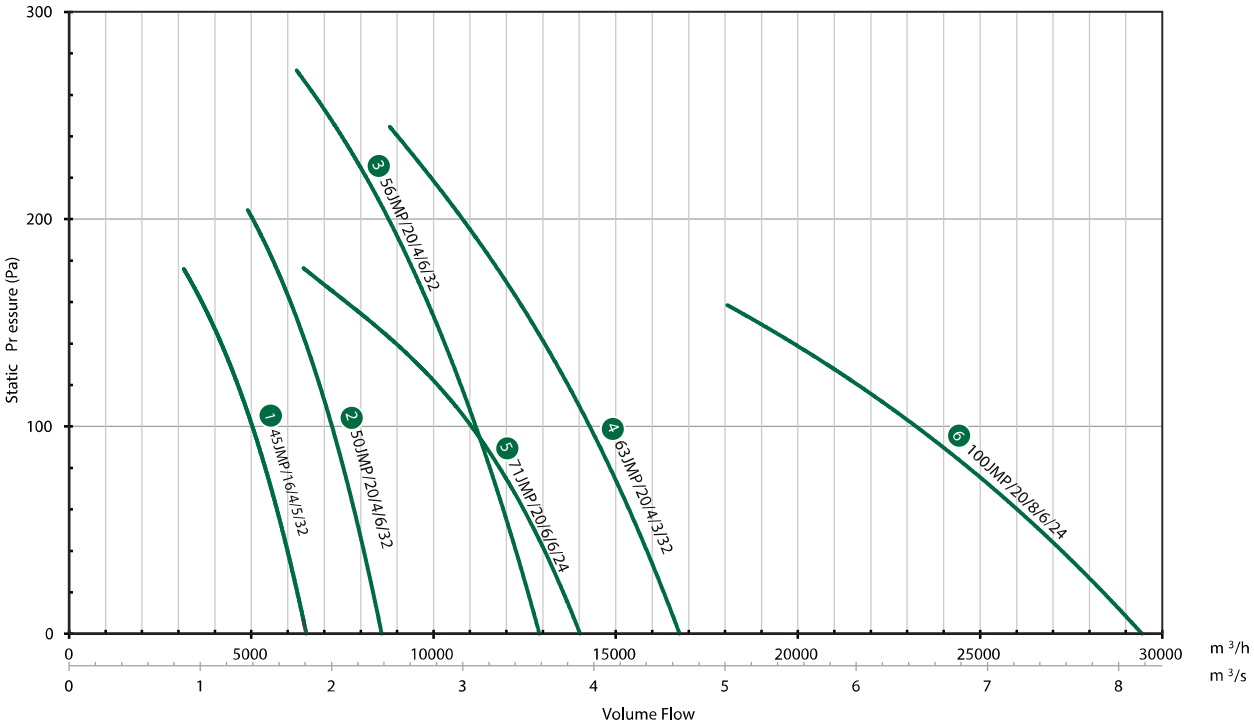
Ref	Product Code	Product Number	Pitch Angle (°)	Speed rev/min	Motor	Rating (kW)	Full Load Current (A)	Starting Current (A)	Wiring Diagram (CD)	Speed Controller		Inlet Sound Levels	Efficiency Rating	Target	Grade
										Electronic	Transformer				
1	31JMP/16/4/5/30	EP315412	30	1430	BT5	0.075	0.54	1.45	CD3038	ME1.1	TEID 1	42		ErP Exempt	
2	35JMP/16/4/5/22	EP355412	22	1430	BT5	0.075	0.54	1.45	CD3038	ME1.1	TEID 1	43		ErP Exempt	
3	40JMP/16/4/5/29	EP405415	29	1420	BT5	0.16	1.12	2.15	CD3038	ME1.3	TEID 1.5	49	30.4	27.0	40
4	45JMP/16/4/5/24	EP455410	24	1360	BT9	0.32	2.2	5.0	CD3038	ME1.3	TEID 2.2	49	35.3	31.0	44
5	50JMP/20/4/6/24	EP505415	24	1360	CT9	0.39	2.9	5.4	CD3038	ME1.3	TEID 3.5	53	29.4	28.7	40
6	56JMP/20/4/6/24	EP565411	24	1400	CT9	0.97	6.9	13.5	CD3037	ME1.6	TEID 7.5	55	39.7	33.7	46
7	63JMP/20/4/3/24	EP635411	24	1400	CT9	0.97	6.9	13.5	CD3037	ME1.6	TEID 7.5	57	43.5	33.8	49

For ErP efficiency ratings and grades please refer to our Fan Selector for more information. Sound pressure levels quoted are at the inlet, and are average dBA at 3m distance over a sphere at the mid point at the highest angle given, under free field conditions. These are presented for comparative purposes only. For speed controllers please see pages 250-297.

JMP PERFORMANCE AND ELECTRICAL DATA

380-420V/50HZ/3ϕ

PERFORMANCE CHART



PERFORMANCE TABLE

Ref	Product Code	m³/s at Pa (Static)					
		0	50	100	150	200	250
1	**45JMP/16/4/5/32**	**1.8**	**1.62**	**1.39**	**1.08**		
2	**50JMP/20/4/6/32**	**2.38**	**2.2**	**2**	**1.74**	**1.4**	
3	**56JMP/20/4/6/32**	**3.58**	**3.35**	**3.09**	**2.79**	**2.43**	**1.97**
4	**63JMP/20/4/3/32**	**4.65**	**4.33**	**3.96**	**3.53**	**2.99**	
5	71JMP/20/6/6/24	3.89	3.54	3.06	2.3		
6	100JMP/25/8/6/24	8.17	7.4	6.45	5.25		

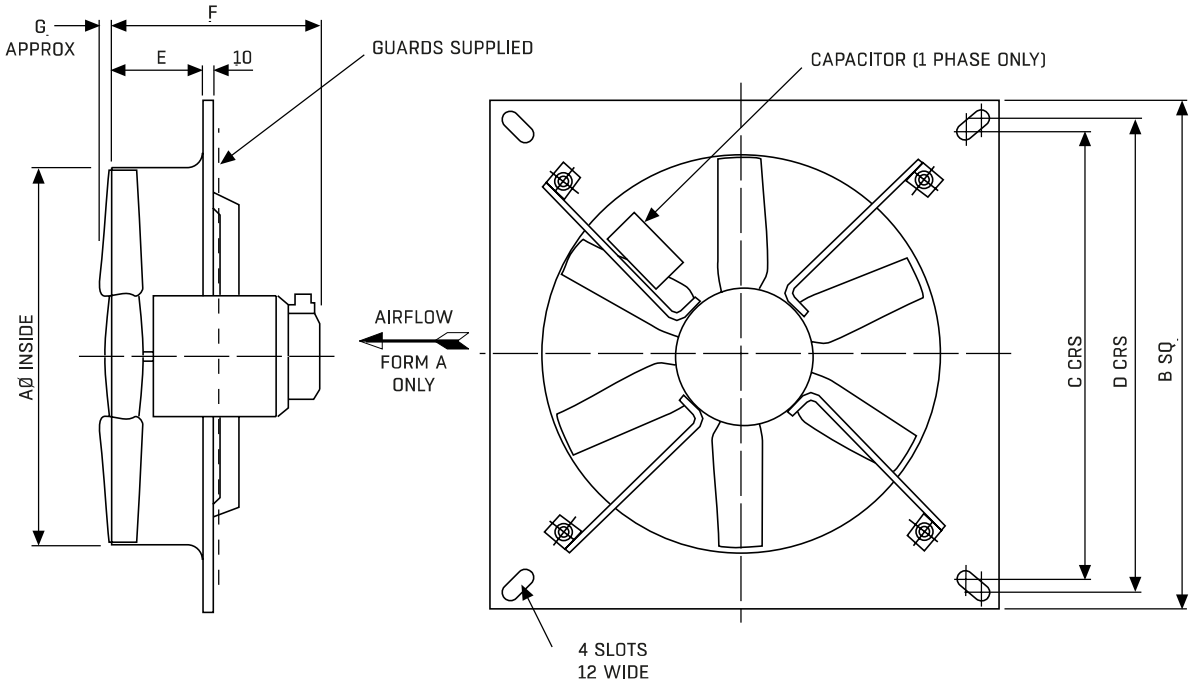
PRODUCT AND ELECTRICAL DETAILS

Ref	Product Code	Product Number	Pitch Angle (°)	Speed rev/min	Motor	Rating (kW)	Full Load Current (A)	Starting Current (A)	Wiring Diagram (CD)	Speed Controller			Inlet Sound Levels	Efficiency Rating	Target	Grade
										Electronic	Transformer	Inverter				
1	**45JMP/16/4/5/32**	**EP455430**	**32**	**1360**	**BT9**	**0.39**	**1.26**	**3.9**	**CD2417**	**N/A**	**TDID 2.5A**	**IDDXF54-2.2**	**52**	**31.9**	**31.8**	**40**
2	**50JMP/20/4/6/32**	**EP505430**	**32**	**1360**	**CT9**	**0.83**	**2.3**	**8.6**	**CD2417**	**N/A**	**TDID 2.5A**	**IDDXF54-3.7**	**56**	**34.6**	**33.1**	**41**
3	**56JMP/20/4/6/32**	**EP565430**	**32**	**1400**	**90S (IE2)**	**1.32**	**2.84**	**15.6**	**CD2416**	**N/A**	**N/A**	**IDDXF54-3.7**	**60**	**39.7**	**34.3**	**45**
4	**63JMP/20/4/3/32**	**EP635430**	**32**	**1400**	**90S (IE2)**	**1.32**	**2.84**	**15.6**	**CD2416**	**N/A**	**N/A**	**IDDXF54-3.7**	**59**	**41.4**	**34.7**	**46**
5	71JMP/20/6/6/24	EP715630	24	900	80 (IE2)	0.66	1.64	6.07	**CD2416**	N/A	N/A	IDDXF54-2.2	53	39.8	33.3	46
6	100JMP/25/8/6/24	EP135630	24	695	112M (IE2)	1.80	4.51	19.39	**CD2417**	N/A	N/A	IDDXF54-5.3	61	40.8	35.5	45

For ErP efficiency ratings and grades please refer to our Fan Selector for more information. Sound pressure levels quoted are at the inlet, and are average dBA at 3m distance over a sphere at the mid point at the highest angle given, under free field conditions. These are presented for comparative purposes only. For speed controllers please see pages 250-297.

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.

DRAWING - JM PLATE



Aluminium frames, plastic shutters. Shutters must be separated from the fan mounting plane by the following minimum distances:
Up to 500 mm Ø – 150 mm
560 to 710 mm Ø – 200 mm
800, 1000 mm Ø – 275 mm

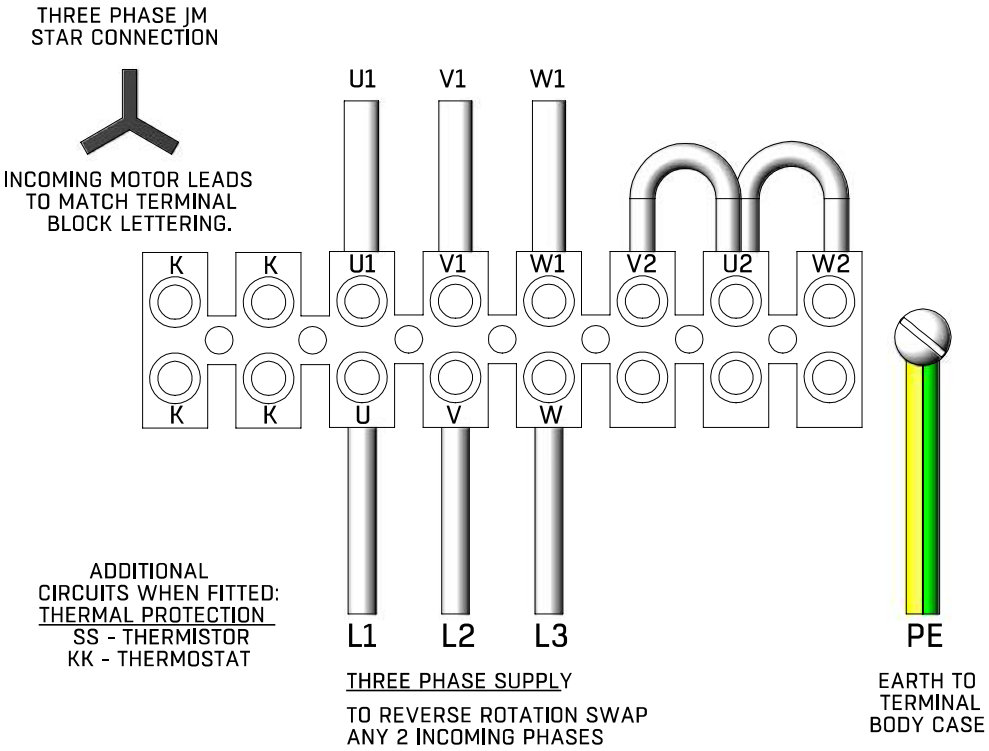
Note; that under some combinations of fan speed and wind the shutters vanes may become unstable. This is more likely to occur at reduced fan speed.

Code	Motor Range	A	B	C	D	E	F	G	Weight (kg)
31JMP/16/4/5/40	1420	315	425	375	400	100	263	18	10
35JMP/16/4/5/34	1440	355	475	425	450	100	256	20	11
40JMP/16/4/5/40	1440	400	520	470	495	100	295	22	14
45JMP/16/4/5/40	1440	450	585	535	560	100	268	24	17
50JMP/16/4/5/30	1440	500	650	600	625	110	259	26	18
56JMP/16/4/5/30	1440	560	715	665	690	110	299	28	23
63JMP/16/4/3/24	1420	630	780	735	755	110	306	23	26
71JMP/20/6/6/24	900	710	875	830	850	110	270	23	32
100JMP/25/8/6/24	695	1000	1170	1110	-	107	395	-	101

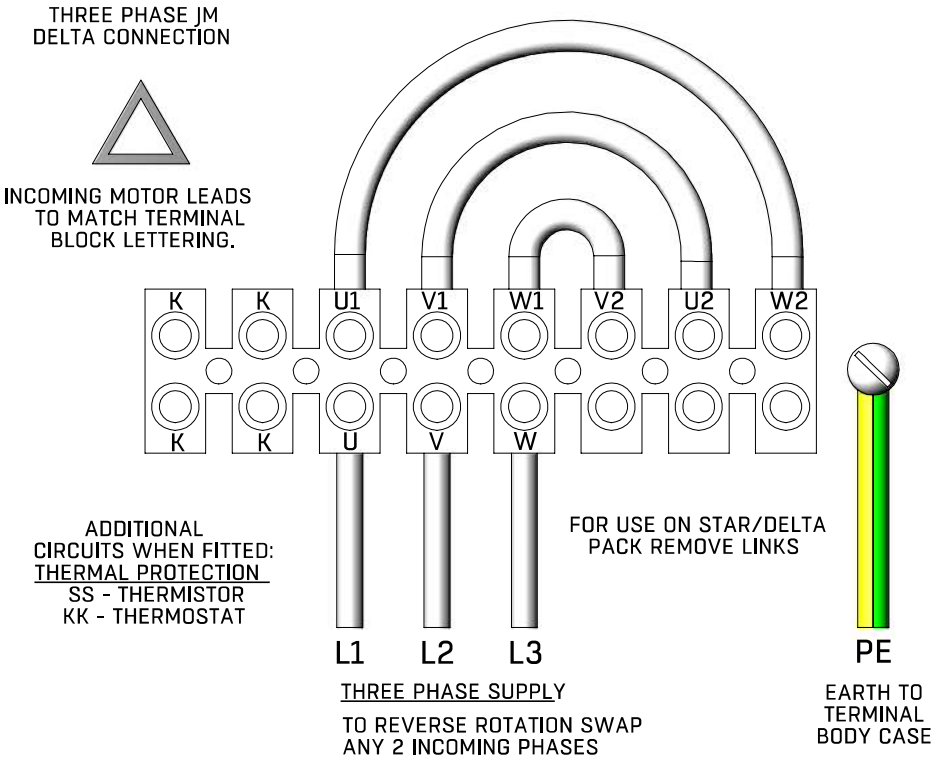
All dimensions in mm.

WIRING DIAGRAMS - JM PLATE

CD2416

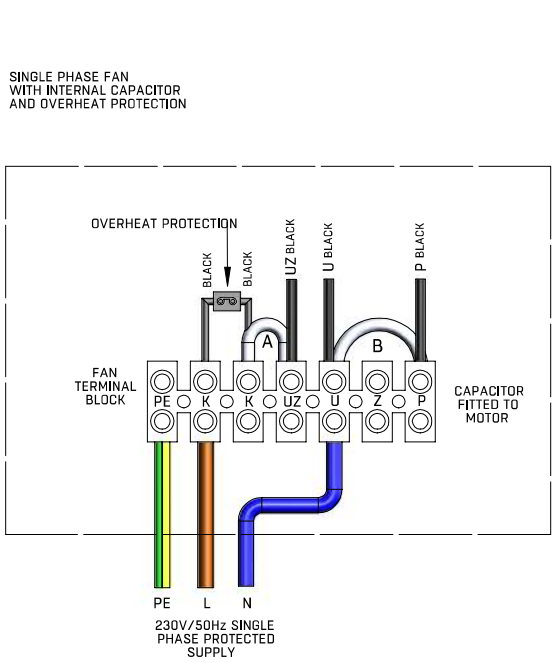


CD2417

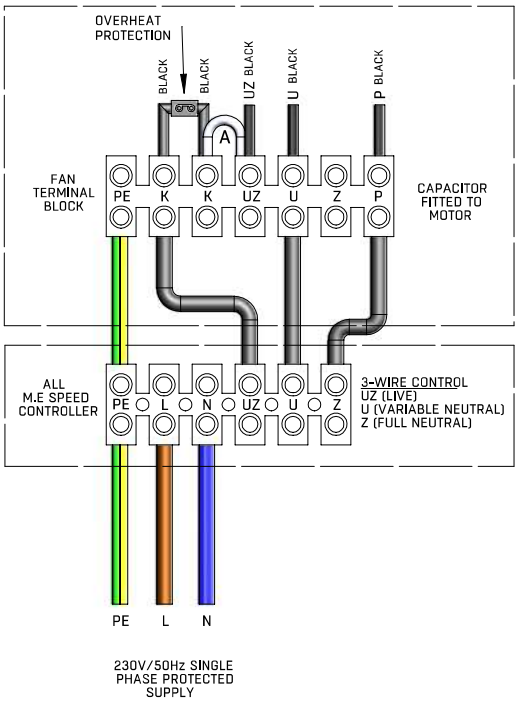


WIRING DIAGRAMS - JM PLATE

CD3038 - 315-500 JMP 1 PHASE (WITHOUT AND WITH ME SPEED CONTROLLER)



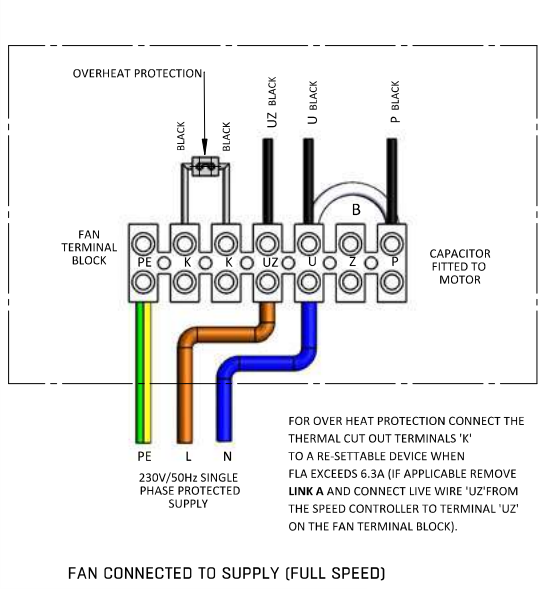
FAN CONNECTED TO SUPPLY (FULL SPEED)



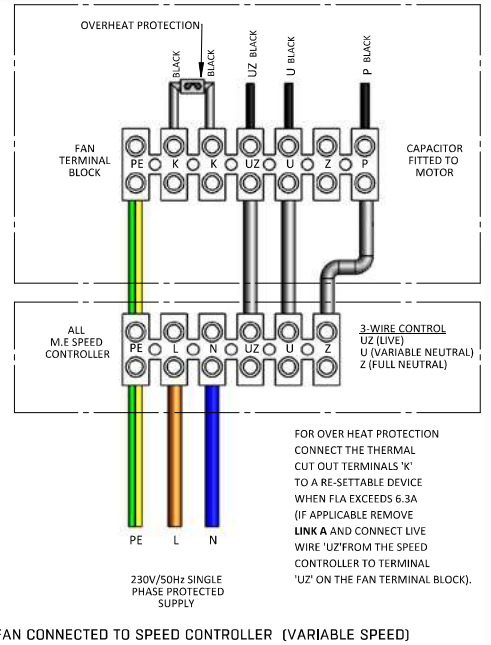
FAN CONNECTED TO SPEED CONTROLLER (VARIABLE SPEED)

CD3037 - 560-630 JMP 1 PHASE (WITHOUT AND WITH ME SPEED CONTROLLER)

For JMP single phase transformer speed controller wiring diagrams please refer to page 47



FAN CONNECTED TO SUPPLY (FULL SPEED)



FAN CONNECTED TO SPEED CONTROLLER (VARIABLE SPEED)