

JM Plate - Plate Axial Fans



Features

- 315 - 630 mm diameter
- Volume up to 14,688 m³/h (4.08m³/s)
- Static pressures up to 175 Pa
- Motor protection IP55
- Speed controllable
- Supplied fully assembled
- Full range of accessories
- Inverter speed controllable

Electrical Supply

- 220-240V/50Hz/1 ϕ
- 380-420V/50Hz/3 ϕ

Temperature Range

- -40°C to 50°C as standard

Sizes

315, 355, 400, 450, 500, 560 and 630 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 as standard with special 'T' slot 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. The Fläkt 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

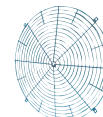
63JMP/20/4/6/24

- 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
- 6 - denotes the number of blades
- 24 - denotes the Pitch Angle for the required duty

Accessories



Louver Shuttes



Impeller side Guard



Controls Transformer



Controls Inverter

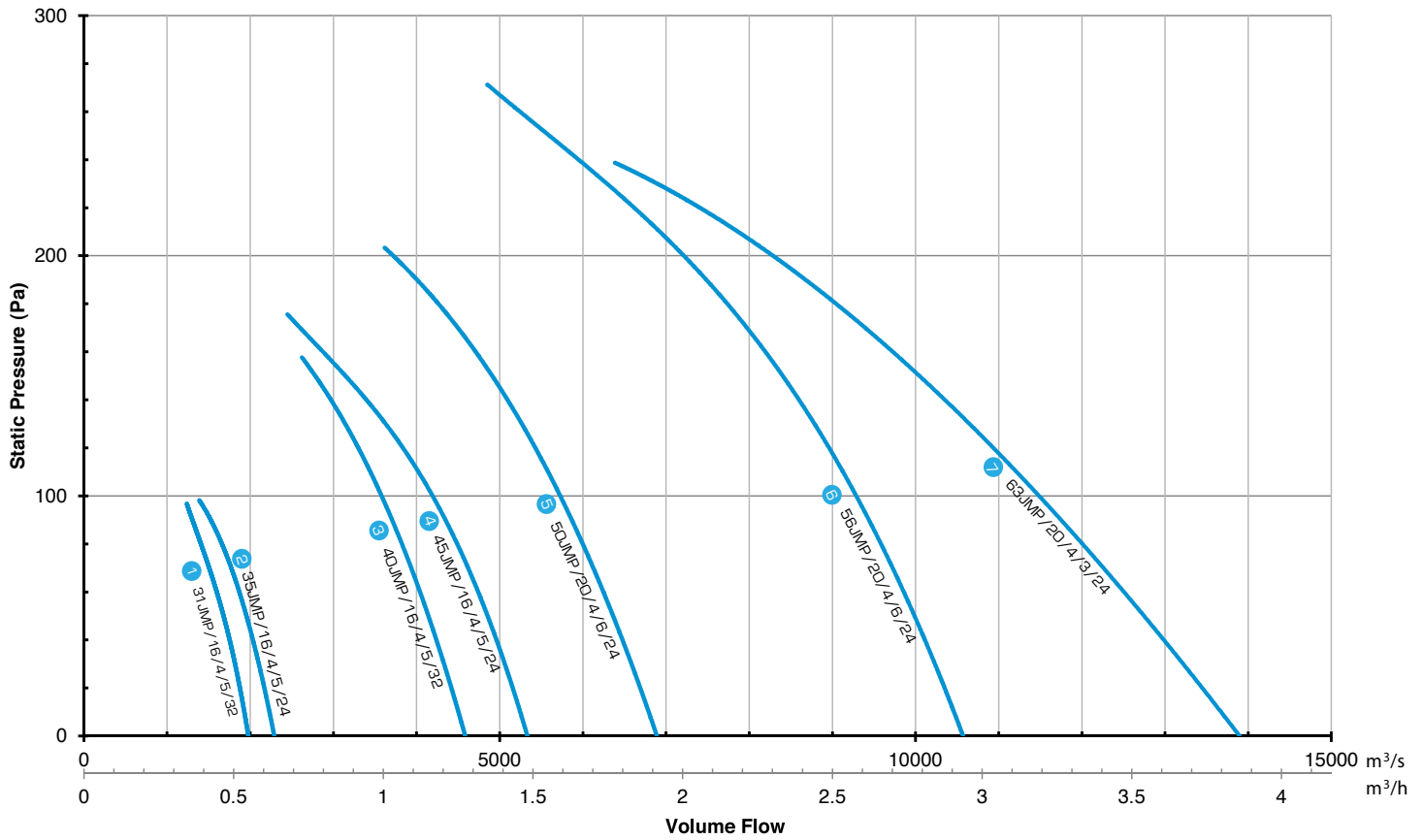


Controls Electronic



Product Performance and Electrical Data

Performance Chart - JM Plate
220-240v/50Hz/1φ



Performance Table - JM Plate
220-240v/50Hz/1φ

Ref	Product Code	m³/h 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/16/4/5/32	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	

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.



Product Performance and Electrical Data

Product, Electrical and ErP Table - JM Plate
220-240v/50Hz/1 ϕ

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		
										Electronic	Transformer	Inverter
1	31JMP/16/4/5/30	EP315412	30	1430	BT5	0.075	0.54	1.45	CD2422	EEID 4A	n/a	n/a
2	35JMP/16/4/5/22	EP355412	22	1430	BT5	0.075	0.54	1.45	CD2422	EEID 4A	n/a	n/a
3	40JMP/16/4/5/32	EP405410	32	1420	BT9	0.32	2.2	5.0	CD1705	EEID 4A	TEDS 5A	n/a
4	45JMP/16/4/5/24	EP455410	24	1360	BT9	0.32	2.2	5.0	CD1705	EEID 4A	TEDS 5A	n/a
5	50JMP/20/4/6/24	EP505410	24	1360	CT5	0.52	3.9	7.8	CD1705	EEID 4A	TEDS 5A	n/a
6	56JMP/20/4/6/24	EP565411	24	1400	CT9	0.97	6.9	13.5	CD1705	EEDS 10A	TEDS 7.5A	n/a
7	63JMP/20/4/3/24	EP635411	24	1400	CT9	0.97	6.9	13.5	CD1705	EEDS 10A	TEDS 7.5A	n/a

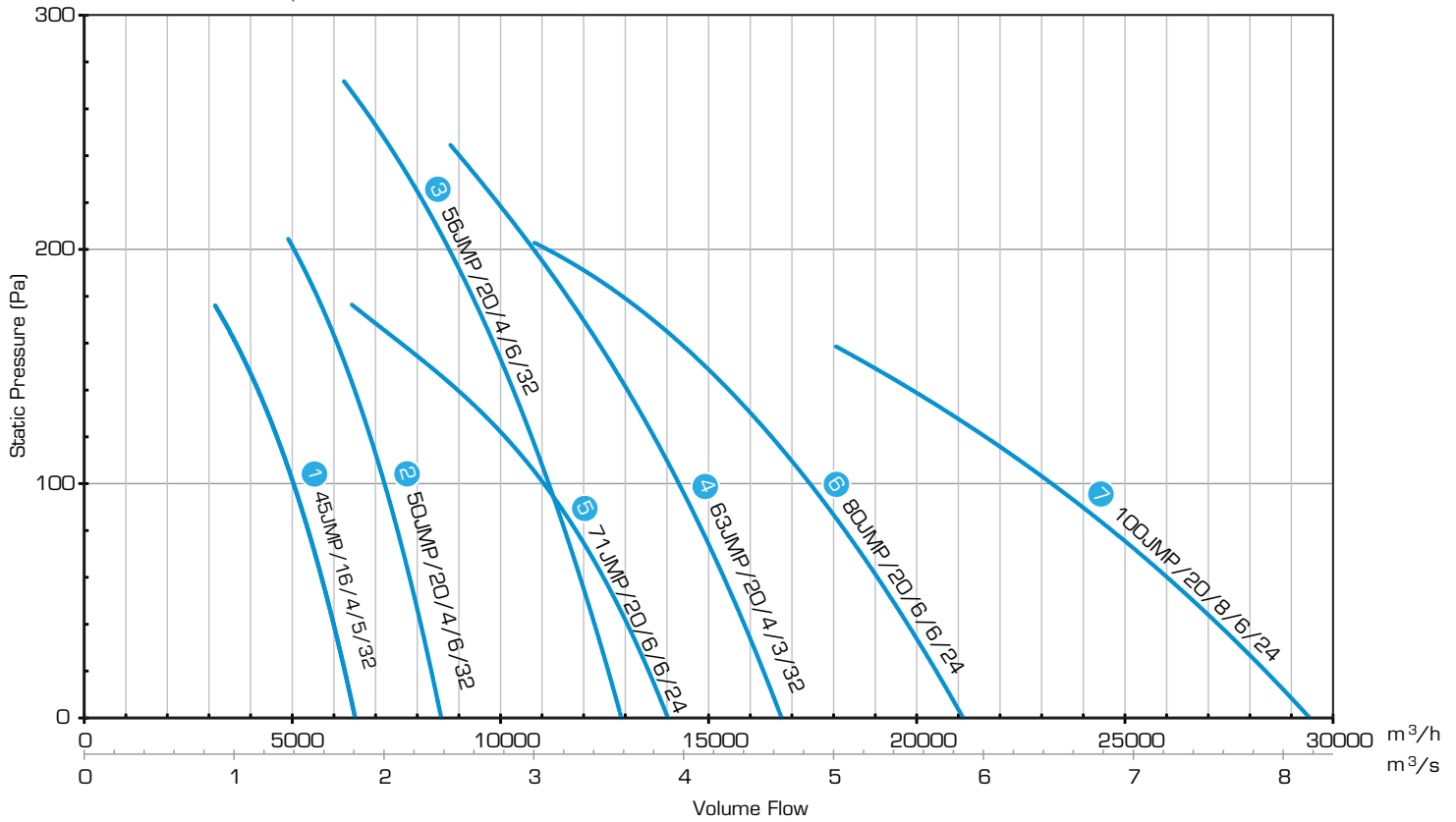
Ref	Product Code	Product Number	Inlet Sound Levels	Efficiency Rating	Target	Grade
1	31JMP/16/4/5/32	EP315412	42	-	-	-
2	35JMP/16/4/5/24	EP355412	43	-	-	-
3	40JMP/16/4/5/32	EP405410	49	30.4	27.0	39
4	45JMP/16/4/5/24	EP455410	49	35.3	31.0	44
5	50JMP/20/4/6/24	EP505410	53	29.4	28.7	37
6	56JMP/20/4/6/24	EP565411	55	39.7	33.7	46
7	63JMP/20/4/3/24	EP635411	57	43.5	33.8	49

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.



Product Performance and Electrical Data

Performance Chart - JM Plate
380-420v/50Hz/3φ



Performance Table - JM Plate
380-420v/50Hz/3φ

Ref	Product Code	m³/h 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	80JMP/20/6/6/24	5.86	5.39	4.84	4.14	3.09	
7	100JMP/25/8/6/24	8.17	7.4	6.45	5.25		

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.



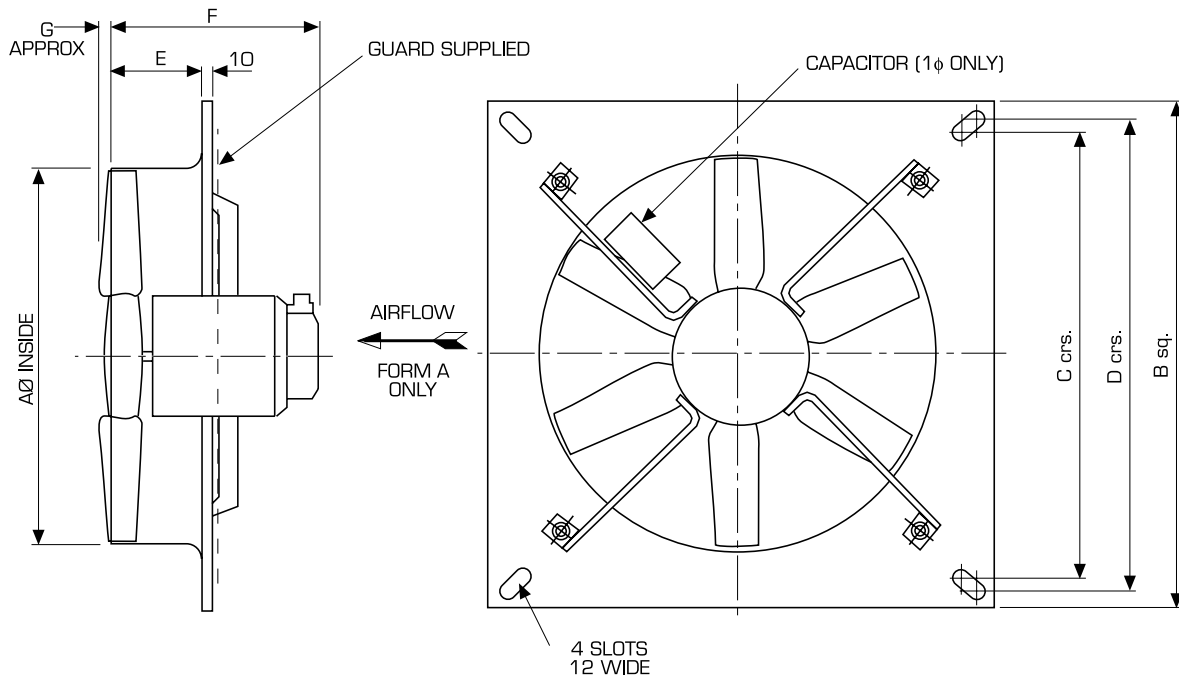
Product Performance and Electrical Data

Product, Electrical and ErP Table - JM Plate 380-420v/50Hz/3φ

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		
										Electronic	Transformer	Inverter
1	45JMP/16/4/5/32	EP455430	32	1360	BT9	0.39	1.26	3.9	CD1705	n/a	TDID 2.5A	IDDXF54-2.2
2	50JMP/20/4/6/32	EP505430	32	1360	CT9	0.83	2.3	8.6	CD2417	n/a	n/a	IDDXF54-3.7
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
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
5	71JMP/20/6/6/24	EP715630	24	900	80 (IE2)	0.66	1.64	6.07	enq	n/a	n/a	n/a
6	80JMP/20/6/6/24	EP805630	24	935	90L (IE2)	1.32	3.13	13.15	enq	n/a	n/a	n/a
7	100JMP/25/8/6/24	EP135630	24	695	112M (IE2)	1.80	4.51	19.39	enq	n/a	n/a	n/a

Ref	Product Code	Product Number	Inlet Sound Levels	Efficiency Rating	Target	Grade
1	45JMP/16/4/5/32	EP455430	52	31.9	31.8	40
2	50JMP/20/4/6/32	EP505430	56	34.6	33.1	41
3	56JMP/20/4/6/32	EP565430	60	39.7	34.3	45
4	63JMP/20/4/3/32	EP635430	59	41.4	34.7	46
5	71JMP/20/6/6/24	EP715630	53	39.8	33.3	46
6	80JMP/20/6/6/24	EP805630	58	42.9	34.8	48
7	100JMP/25/8/6/24	EP135630	61	40.8	35.5	45

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.



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.

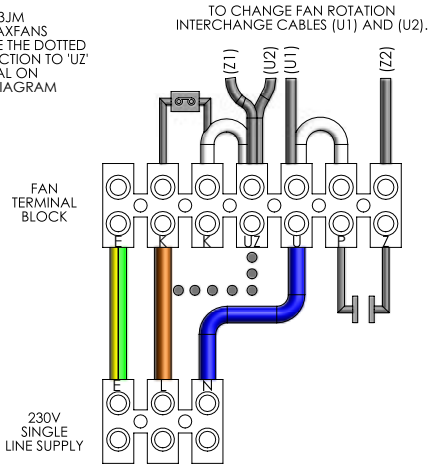
Code	Motor Range	A	B	C	D	E	F	G	Weight (kg)
31JMP/16/4/5/40	1420	315	425	375	400	100	263	18	10
35JMP/16/4/5/34	1440	355	475	425	450	100	256	20	11
40JMP/16/4/5/40	1440	400	520	470	495	100	295	22	14
45JMP/16/4/5/40	1440	450	585	535	560	100	268	24	17
50JMP/16/4/5/30	1440	500	650	600	625	110	259	26	18
56JMP/16/4/5/30	1440	560	715	665	690	110	299	28	23
63JMP/16/4/3/24	1420	630	780	735	755	110	306	23	26

Wiring Diagrams - JM Plate

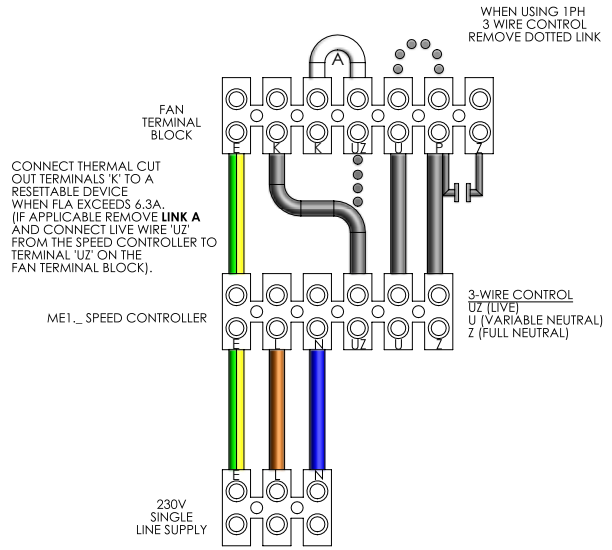


CD1705

NOTE:
56JM, 63JM
AND MAXFANS
REQUIRE THE DOTTED
CONNECTION TO 'UZ'
TERMINAL ON
EACH DIAGRAM



FAN CONNECTED TO SUPPLY (FULL SPEED)



FAN CONNECTED TO SPEED CONTROLLER (VARIABLE SPEED)

CD2416

THREE PHASE
DUAL VOLTAGE
STAR CONNECTION



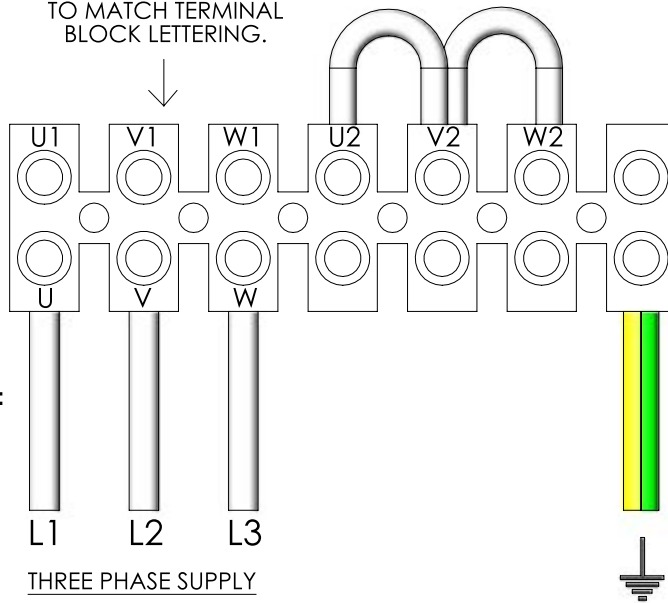
CLOCKWISE
ROTATION



ADDITIONAL
CIRCUITS WHEN FITTED:
THERMAL PROTECTION
SS - THERMISTOR
KK - THERMOSTAT

A/C HEATERS
HH - HEATERS

INCOMING MOTOR LEADS
TO MATCH TERMINAL
BLOCK LETTERING.

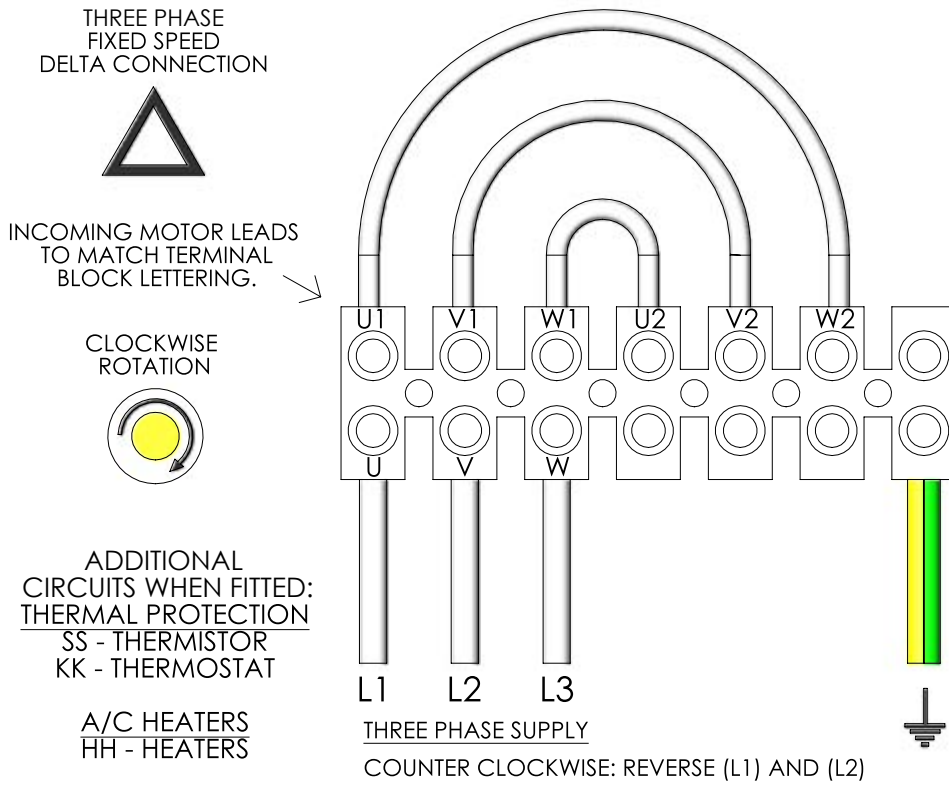


THREE PHASE SUPPLY

COUNTER CLOCKWISE: REVERSE (L1) AND (L2)

Wiring Diagrams - JM Plate

CD2417



CD2422

