

- 315mm to 1000mm diameter
- Volume flows of up to 20m³/s
- Static pressures up to 800 Pa
- High energy efficiency
- Low installed noise levels
- Motor protection IP55
- All casings are hot dipped galvanised
- Overheat protection is fitted as standard
- Inverter controllable

SIZES

31JM - (315mm) to 100JM - (1000mm).
Larger sizes up to 2800mm diameter are also available.

FAN PERFORMANCE

All fans are tested to the latest internationally recognised standard ISO5801 Part 1 (1997), installation category D (AMCA approved) for aerodynamic performance and BS848 Part 2 (1985) for acoustic performance. Coupled with a wide range of fan diameters, the adjustable pitch Aerofoil impeller gives the exact performance required, with a non overloading fan characteristic.

IMPELLERS

A unique high efficiency aerofoil section blade with a purposely smoothed hub and clamp plate for adjustable pitch angle availability.

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 (3ph only).

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 motors are suitable for speed control by voltage regulation where indicated. Three phase motors are suitable for use with frequency inverters. Two speed motors where available are pole change type. Suitable for horizontal through to vertical shaft operation. Supplied IP55, with removable drain plugs.

Sealed for life bearings lubricated with wide temperature range grease. The BT and CT frames are fitted with overheat protection thermostat as standard. 80-160 frame motors are fitted with Thermistor OHP. These motors are suitable for inverter speed control down to 20% of full speed and where within scope incorporate IE2 compliant motors.

ELECTRICAL SUPPLY

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



EXPRESS RANGE

TEMPERATURE RANGE

-40°C to 50°C as standard. (All motors are not suitable for starting at temperatures lower than -20°C.). When fans are operating in excess of 50°C they should be run at full speed only, fans can be operated up to 70°C with appropriate deration of motors.

Most standard 3 Ph fans can be offered for a one off emergency operation at 200°C for 2 hours.

CASINGS

JM Aerofoil fans are available in either a long cased form, complete with an externally mounted pre-wired electrical terminal box, or short cased for duct or plate installation. 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.

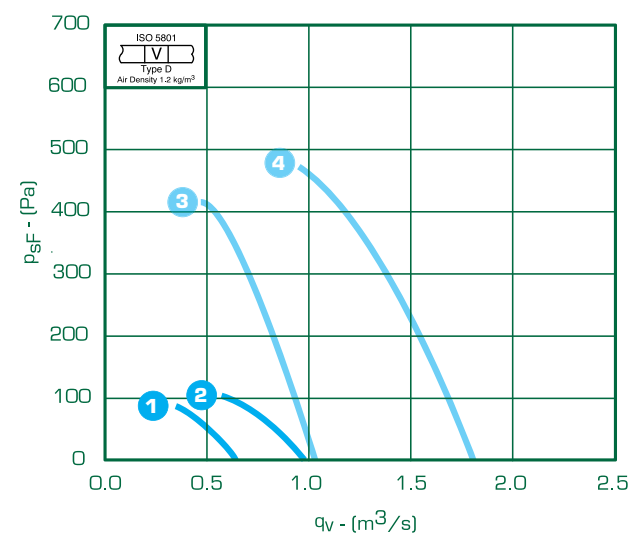
ACCESSORIES

Silencers, Mounting feet, Vibration isolators, Matching flanges, Flexible connectors, Air operated non return dampers, Guards, Bell mouth inlets. Electronic and transformer type speed controllers and frequency inverters. For a full range please see pages 43-48.

Performance Data

1 Phase

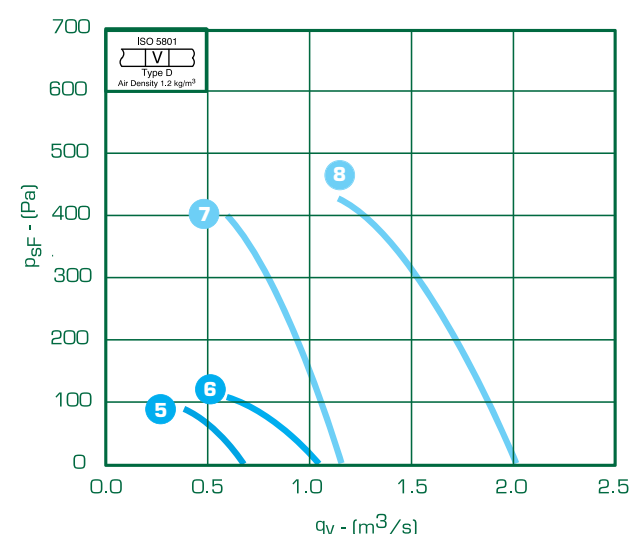
1 - 31JM/16/4/5/36	3 - 31JM/16/2/5/28
2 - 35JM/16/4/5/40	4 - 35JM/16/2/5/34



Ref	m³/s at Pa [Static]							
	0	50	100	150	200	250	300	400
1	0.02	0.57						
3	1.07	0.97	0.92	0.86	0.82	0.72	0.70	0.51
2	1.01	0.86	0.64					
4	1.80	1.75	1.68	1.61	1.55	1.46	1.38	1.16
5	0.68	0.55						
7	1.20	1.14	1.09	1.03	0.97	0.90	0.82	
6	1.02	0.87	0.64					
8	2.03	1.96	1.89	1.82	1.74	1.64	1.54	1.28

3 Phase

5 - 31JM/16/4/5/40	7 - 31JM/16/2/5/34
6 - 35JM/16/4/5/40	8 - 35JM/16/2/5/40



Electrical Data

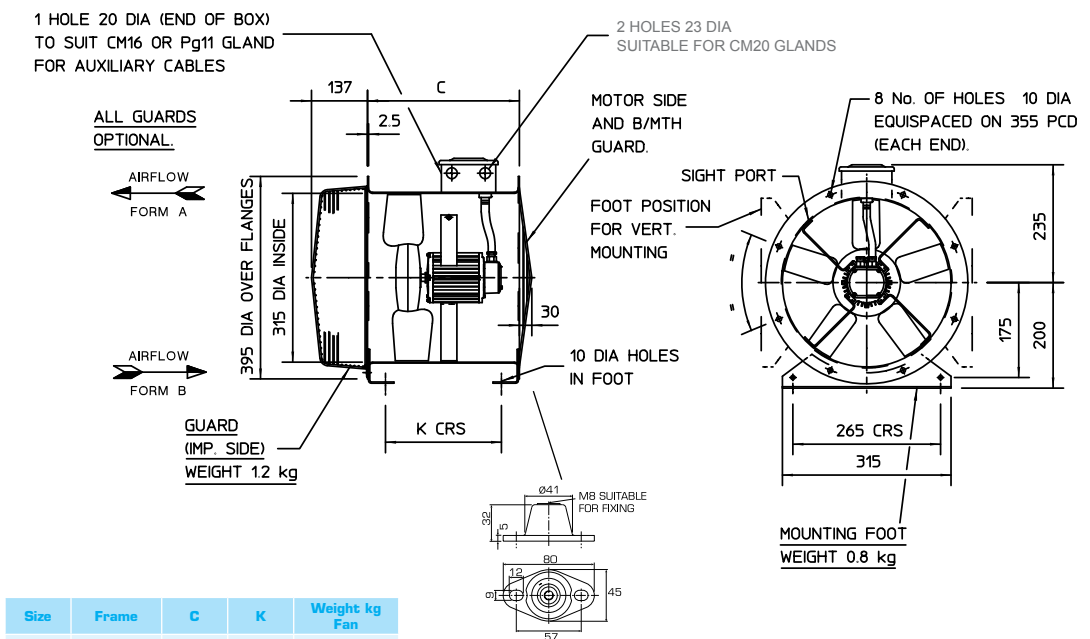
Ref	Product Code	Speed rev/min	Motor	Product Number	Pitch Angle (°)	Rating (kW)	Full Load Current (A)	Starting Current (A)	Wiring Diagram Ref	Speed Controller		Sound Level dBA
										Electronic	Transformer	
220-240V/50Hz/1 Ph												
1	31JM/16/4/5/...	1420	BT4	DX321460	40	0.095	0.8	1.3	CD1705	ME1.1	MT1.1.5	44
3	31JM/16/2/5/...	2840	BT9	DX321202	24-28	0.48	3.1	6.7	CD1705	N/A	N/A	61
2	35JM/16/4/5/...	1420	BT4	DX361460	40	0.13	1.0	1.8	CD1705	ME1.1	MT1.1.5	49
4	35JM/16/2/5/...	2840	CT9	JL361205	32-34	1	6.8	21	CD1705	N/A	N/A	64
380-420V/50Hz/3 Ph												
5	31JM/16/4/5/...	1420	BT4	DX341460	40	0.13	0.50	1.1	CD2416	MT3.1	FWX1	44
7	31JM/16/2/5/...	2840	BT9	DX341202	34	0.58	1.5	5.7	CD2416	N/A	FWX1	61
6	35JM/16/4/5/...	1420	BT5	DX381460	40	0.18	0.6	1.9	CD2416	MT3.1	FWX1	49
8	35JM/16/2/5/...	2735	80	EE381274	8-40	1.32	2.79	14.62	CD2416	N/A	FWX2	63

Sound pressure levels quoted are average dBA at 3m distance over a sphere, under free field conditions and are presented for comparative purposes only. When fans are operating in excess of 50°C they should be run at full speed only. For Short cased fans please omit the prefix from the product number and state S-type on enquiries/orders. Product numbers shown are for Long cased fans.
Wiring diagrams can be found on pages 17-18.

Bold text denotes Super Express Product, next day delivery available if ordered by 4pm.

The fan noise levels shown are for the specified operating point. When an electronic controller is incorporated, a magnetic note may occur. FWL recommend using an auto transformer speed controller. Fans are supplied at catalogue stated angle. Should you wish for the pitch angle to be adjusted, we would be happy to offer a quotation

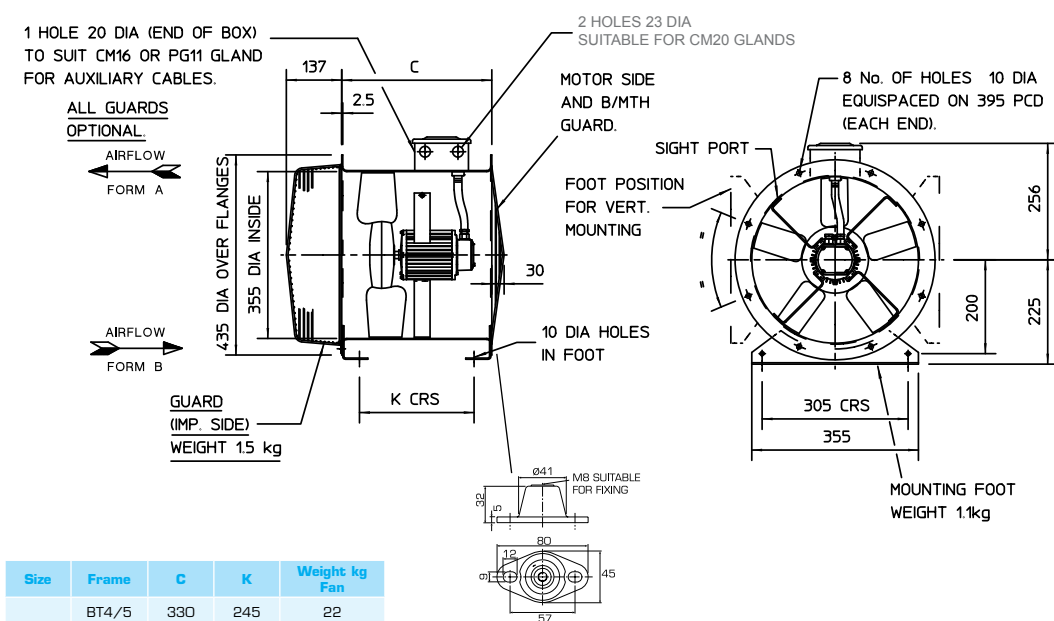
Dimensions - 31 JM Aerofoil



Size	Frame	C	K	Weight kg Fan
315	BT4/5/9	330	245	21
	CT5/9	375	289	27

All dimensions shown in mm

Dimensions - 35 JM Aerofoil



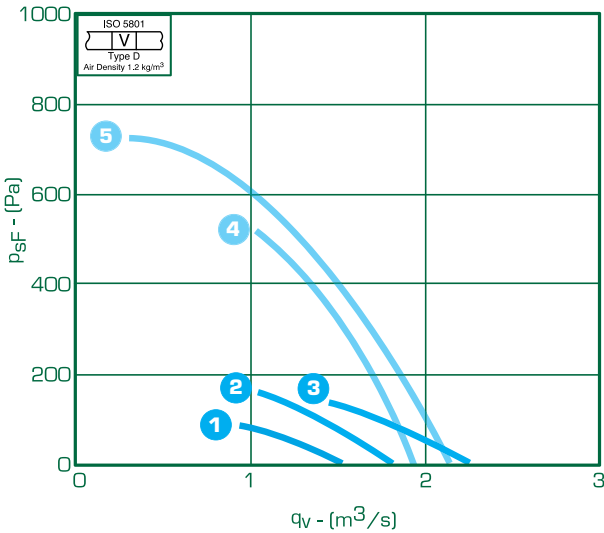
Size	Frame	C	K	Weight kg Fan
355	BT4/5	330	245	22
	BT9	375	289	23
	CT5	330	245	24
	CT9	375	289	28
	RD	375	289	31

All dimensions shown in mm

Performance Data

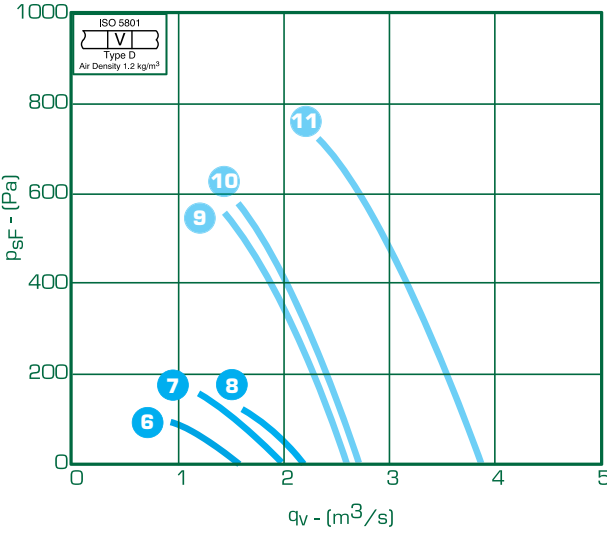
1 Phase

1 - 40JM/16/4/5/40	3 - 45JM/16/4/5/40	5 - 45JM/16/2/5/14
2 - 45JM/16/4/5/30	4 - 40JM/16/2/5/22	



3 Phase

6 - 40JM/16/4/5/40	8 - 45JM/16/4/5/40	10 - 45JM/16/2/5/20
7 - 45JM/16/4/5/34	9 - 40JM/16/2/5/32	11 - 45JM/20/2/6/34



Ref	Product Code	m³/s at Pa (Static)									
		0	50	100	150	200	250	300	400	500	600
1	40JM/16/4/5/...	1.50	1.31	1.07							
4	40JM/16/2/5/...	1.92	1.87	1.81	1.75	1.69	1.61	1.54	1.35	1.10	
2	45JM/16/4/5/...	1.82	1.62	1.41	1.13						
3	45JM/16/4/5/...	2.19	1.96	1.67							
5	45JM/16/2/5/...	2.13	2.05	1.99	1.91	1.84	1.77	1.68	1.50	1.29	1.01
6	40JM/16/4/5/...	1.50	1.32	1.07							
9	40JM/16/2/5/...	2.59	2.51	2.43	2.35	2.26	2.17	2.08	1.86	1.61	
7	45JM/16/4/5/...	1.99	1.77	1.51	1.22						
8	45JM/16/4/5/...	2.20	1.96	1.68							
10	45JM/16/2/5/...	2.71	2.64	2.56	2.48	2.40	2.32	2.23	2.04	1.81	
11	45JM/20/2/6/...	3.88	3.80	3.72	3.63	3.55	3.46	3.37	3.18	2.96	2.71

Electrical Data

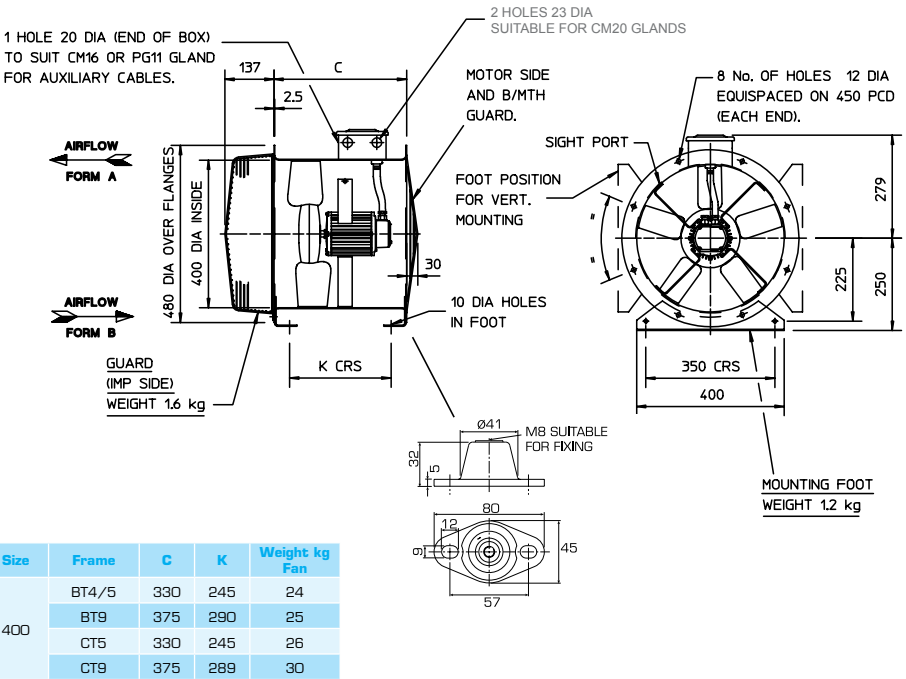
Ref	Product Code	Speed rev/min	Motor	Product Number	Pitch Angle (°)	Rating (kW)	Full Load Current (A)	Starting Current (A)	Wiring Diagram Ref	Speed Controller		Sound Level dBA
										Electronic	Transformer	
220-240V/50Hz/1 Ph												
1	40JM/16/4/5/...	1420	BT9	DX411452	40	0.32	2.2	5	CD1705	ME1.3	MT1.5	52
4	40JM/16/2/5/...	2840	CT9	JL411203	18-22	1	6.8	21	CD1705	N/A	N/A	66
2	45JM/16/4/5/...	1420	BT9	JL461452	24-30	0.32	2.2	5	CD1705	ME1.3	MT1.5	52
3	45JM/16/4/5/...	1420	CT5	DX461466	40	0.39	2.9	5.6	CD1705	ME1.3	MT1.5	56
5	45JM/16/2/5/...	2840	CT9	JL461201	10-14	1	6.8	21	CD1705	N/A	N/A	66
380-420V/50Hz/3 Ph												
6	40JM/16/4/5/...	1420	BT9	DX431452	40	0.29	1	3	CD2420	MT3.1	FWX1	52
9	40JM/16/2/5/...	2730	80	EE431273	8-32	1.73	3.59	18.31	CD2416	N/A	FWX1	67
7	45JM/16/4/5/...	1420	BT9	JL481452	8-34	0.39	1.3	3.9	CD2420	N/A	FWX1	52
8	45JM/16/4/5/...	1420	CT5	DX481460	40	0.53	1.8	4.9	CD2420	MT3.2	FWX1	56
10	45JM/16/2/5/...	2730	80	EE481272	8-20	1.73	3.59	18.31	CD2416	N/A	FWX1	67
11	45JM/20/2/6/...	2850	100L	EE481275	8-34	3.6	7.1	45.58	CD2416	N/A	FWX2	71

Sound pressure levels quoted are average dBA at 3m distance over a sphere, under free field conditions and are presented for comparative purposes only. When fans are operating in excess of 50°C they should be run at full speed only. For Short cased fans please omit the prefix from the product number and state S-type on enquiries/orders. Product numbers shown are for Long cased fans. Wiring diagrams can be found on pages 17-18.

Bold text denotes Super Express Product, next day delivery available if ordered by 4pm.

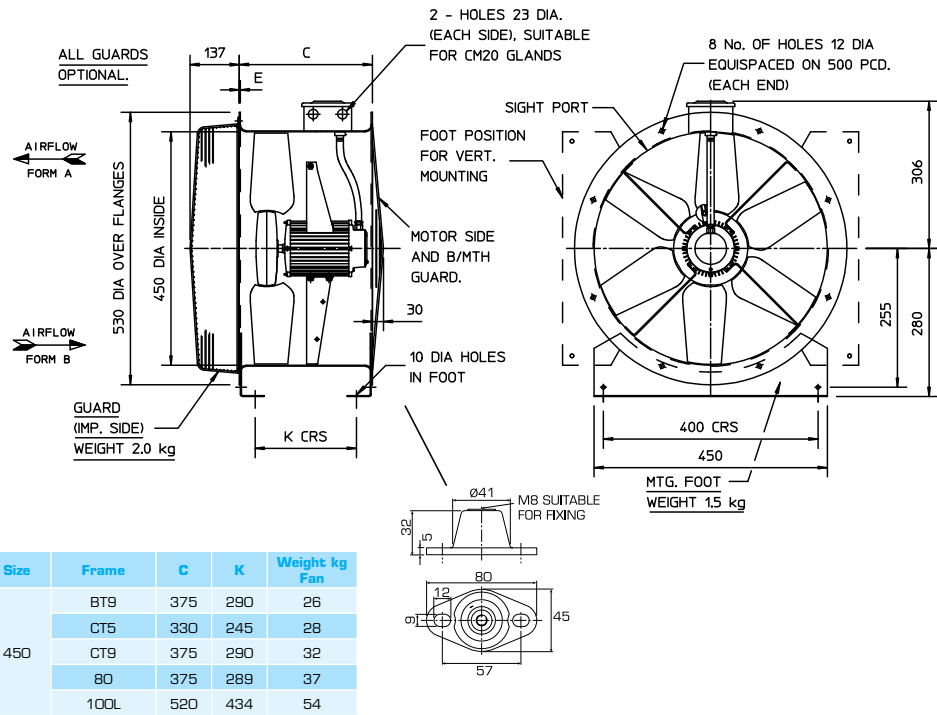
The fan noise levels shown are for the specified operating point. When an electronic controller is incorporated, a magnetic note may occur. FVL recommend using an auto transformer speed controller. Fans are supplied at catalogue stated angle. Should you wish for the pitch angle to be adjusted, we would be happy to offer a quotation

Dimensions - 40 JM Aerofoil



All dimensions shown in mm

Dimensions - 45 JM Aerofoil

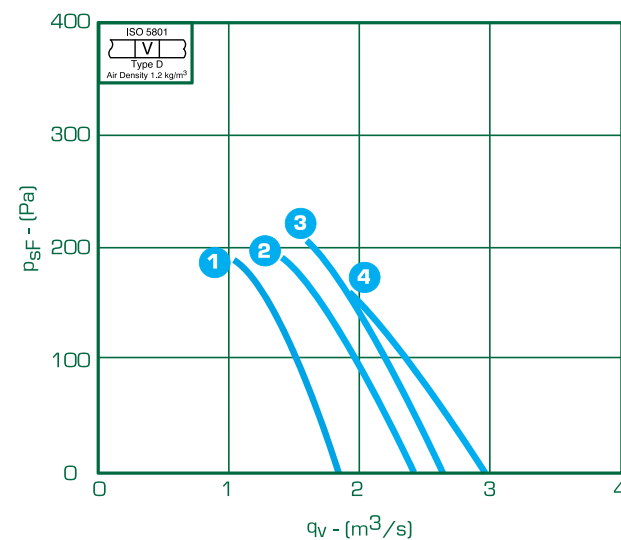


All dimensions shown in mm

Performance Data

1 Phase

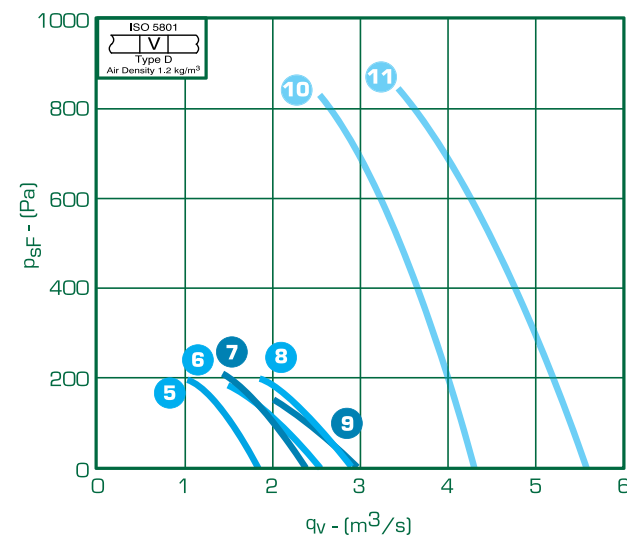
1 - 50JM/20/4/6/20	3 - 50JM/20/4/6/32
2 - 50JM/16/4/5/28	4 - 50JM/16/4/5/38



Ref	Product Code	m³/s at Pa (Static)									
		0	50	100	150	200	250	300	400	500	600
2	5QJM/16/4/5/...	2.42	2.19	1.95	1.66						
4	5QJM/16/4/5/...	2.93	2.66	2.36	1.99						
1	5QJM/20/4/6/...	1.84	1.68	1.52	1.30						
3	50JM/20/4/6/...	2.61	2.42	2.20	1.94	1.62					
6	50JM/16/4/5/...	2.54	2.30	2.04	1.75						
9	5QJM/16/4/5/...	3.02	2.75	2.43							
5	5QJM/20/4/6/...	1.84	1.68	1.52	1.30						
7	50JM/20/4/6/...	2.37	2.19	1.98	1.75	1.42					
8	5QJM/20/4/6/...	2.88	2.69	2.45	2.16						
10	5QJM/20/2/6/...	4.32	4.23	4.16	4.08	4.00	3.91	3.83	3.65	3.43	3.20
11	5QJM/20/2/6/...	5.56	5.46	5.37	5.27	5.16	5.05	4.96	4.73	4.49	4.23

3 Phase

5 - 5QJM/20/4/6/20	7 - 5QJM/20/4/6/28	9 - 5QJM/16/4/5/40	11 - 5QJM/20/2/6/34
6 - 5QJM/16/4/5/30	8 - 5QJM/20/4/6/38	10 - 5QJM/20/2/6/24	



Electrical Data

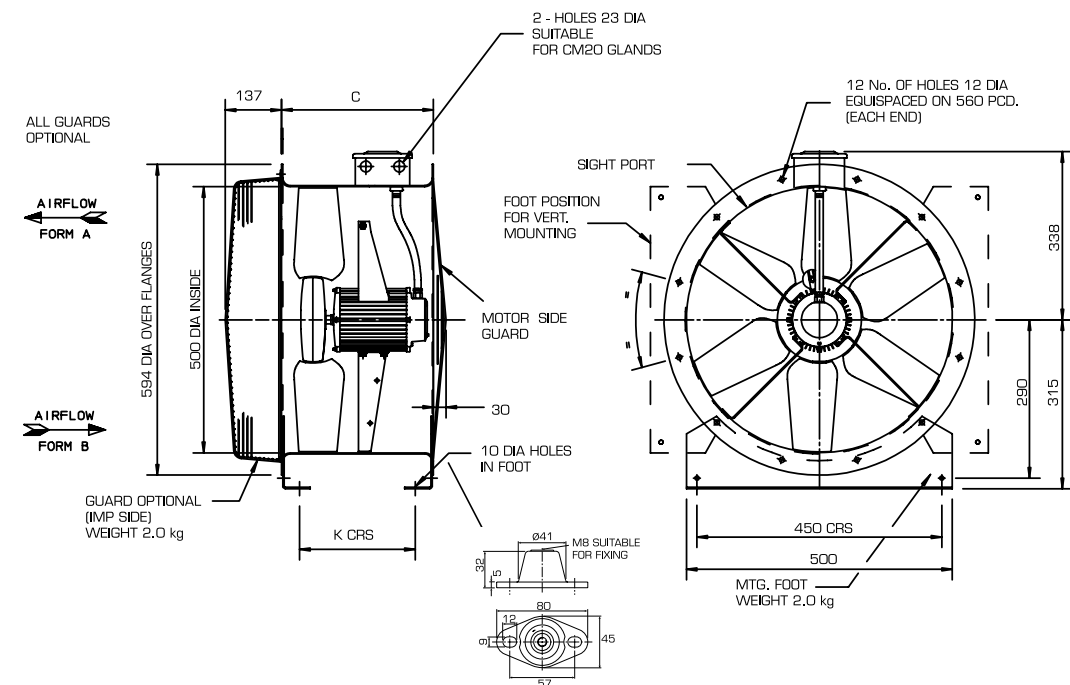
Ref	Product Code	Speed rev/min	Motor	Product Number	Pitch Angle (°)	Rating (kW)	Full Load Current (A)	Starting Current (A)	Wiring Diagram Ref	Speed Controller		Sound Level dBA	
										Electronic	Transformer		
220-240V/50Hz/1 Ph													
2	50JM/16/4/5/...	1420	CT5	DX511464	24-28	0.52	3.9	7.8	CD1705	ME1.6	MT1.5	57	
4	50JM/16/4/5/...	1420	CT9	JL511460	32-38	0.68	4.8	11	CD1705	ME1.6	MT1.5	59	
1	50JM/20/4/6/...	1420	BT9	DX511455	16-20	0.32	2.2	5	CD1705	ME1.3	MT1.5	53	
3	50JM/20/4/6/...	1420	CT5	DX511466	32	0.52	3.9	7.8	CD1705	ME1.6	MT1.5	56	
380-420V/50Hz/3 Ph											Transformer	Inverter	
6	50JM/16/4/5/...	1420	CT5	DX531460	30	0.54	1.8	4.9	CD2420	MT3.2	FWX1	57	
9	50JM/16/4/5/...	1385	80	EE531474	8-40	0.9	1.92	9.78	CD2416	N/A	FWX1	60	
5	50JM/20/4/6/...	1420	BT9	JL531456	8-20	0.39	1.3	3.9	CD2420	N/A	FWX1	53	
7	50JM/20/4/6/...	1420	CT5	DX531462	28	0.54	1.8	4.8	CD2420	MT3.2	FWX1	56	
8	50JM/20/4/6/...	1385	80	EE531478	8-40	0.9	1.92	9.78	CD2416		FWX1	59	
10	50JM/20/2/6/...	2850	100L	EE531273	8-28	4.6	8.88	61.27	CD2416		FWX4	72	
11	50JM/20/P/6/...	2865	112M	FF531274	8-34	6.05	11.6	76.65	CD2417		FWX5	75	

Sound pressure levels quoted are average dBA at 3m distance over a sphere, under free field conditions and are presented for comparative purposes only. When fans are operating in excess of 50°C they should be run at full speed only. For Short cased fans please omit the prefix from the product number and state S-type on enquiries/orders. Product numbers shown are for Long cased fans. Wiring diagrams can be found on pages 17-18.

Bold text denotes Super Express Product, next day delivery available if ordered by 4pm.

The fan noise levels shown are for the specified operating point. When an electronic controller is incorporated, a magnetic note FWL recommend using an auto transformer speed controller. Fans are supplied at catalogue stated angle. Should you wish for the pitch angle to be adjusted, we would be happy to offer a quotation

Dimensions - 50 JM Aerofoil



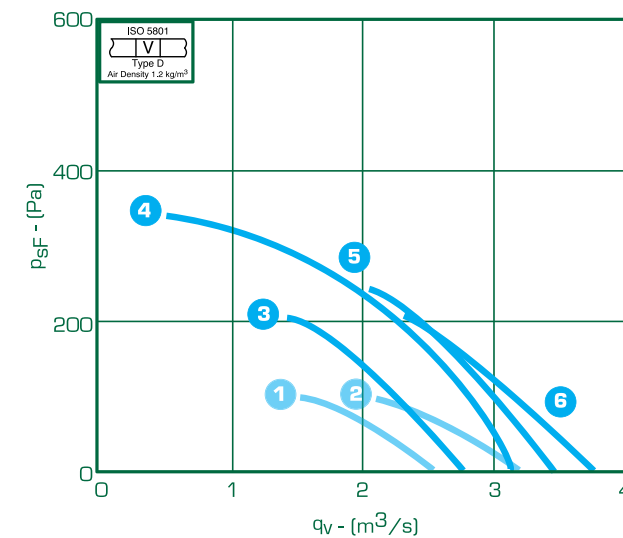
Size	Frame	C	K	Weight kg Fan
500	BT5	330	235	27
	BT9	375	280	28
	CT5	330	235	30
	CT9	375	280	34
	80	375	289	39
	100L	520	434	59
	112M	590	434	77

All dimensions shown in mm

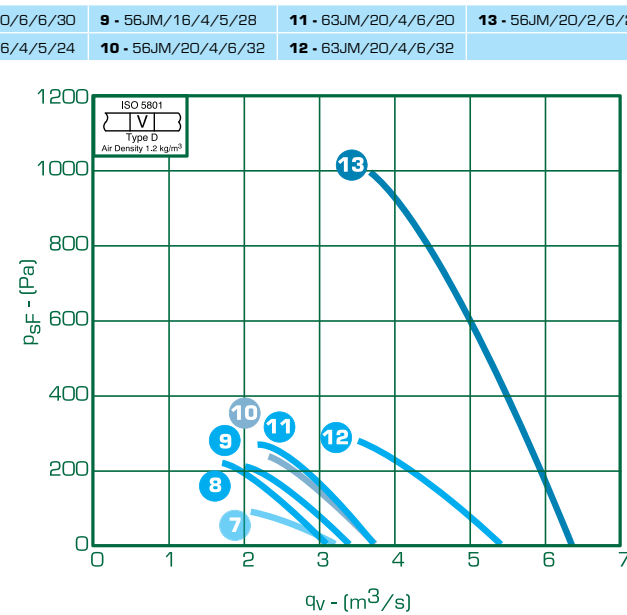
Performance Data

1 Phase

1 - 63JM/20/6/6/22	3 - 56JM/16/4/5/20	5 - 56JM/20/4/6/28	7 - 63JM/20/6/6/30	9 - 56JM/16/4/5/28	11 - 63JM/20/4/6/20	13 - 56JM/20/2/6/24
2 - 63JM/20/6/6/30	4 - 63JM/20/4/6/16	6 - 56JM/16/4/5/32	8 - 56JM/16/4/5/24	10 - 56JM/20/4/6/32	12 - 63JM/20/4/6/32	



3 Phase



Ref	Product Code	m³/s at Pa (Static)									
		0	50	100	150	200	250	300	400	500	600
3	56JM/16/4/5/...	2.74	2.50	2.24	1.93	1.46					
6	56JM/16/4/5/...	3.76	3.46	3.15	2.81	2.38					
5	56JM/20/4/6/...	3.47	3.25	3.01	2.74	2.43					
1	63JM/20/6/6/...	2.57	2.23	1.78							
2	63JM/20/6/6/...	3.25	2.85	2.32							
4	63JM/20/4/6/...	3.12	2.98	2.80	2.58	2.30	1.95	1.38			
8	56JM/16/4/5/...	3.09	2.83	2.56	2.27	1.85					
9	56JM/16/4/5/...	3.44	3.16	2.88	2.55	2.12					
10	56JM/20/4/6/...	3.80	3.57	3.31	3.03	2.70					
13	56JM/20/2/6/...	6.33	6.25	6.16	6.05	5.98	5.85	5.77	5.53	5.30	5.03
7	63JM/20/6/6/...	3.24	2.86	2.33							
11	63JM/20/4/6/...	3.77	3.57	3.37	3.14	2.89	2.55				
12	63JM/20/4/6/...	5.40	5.12	4.87	4.56	4.23	3.83				

Electrical Data

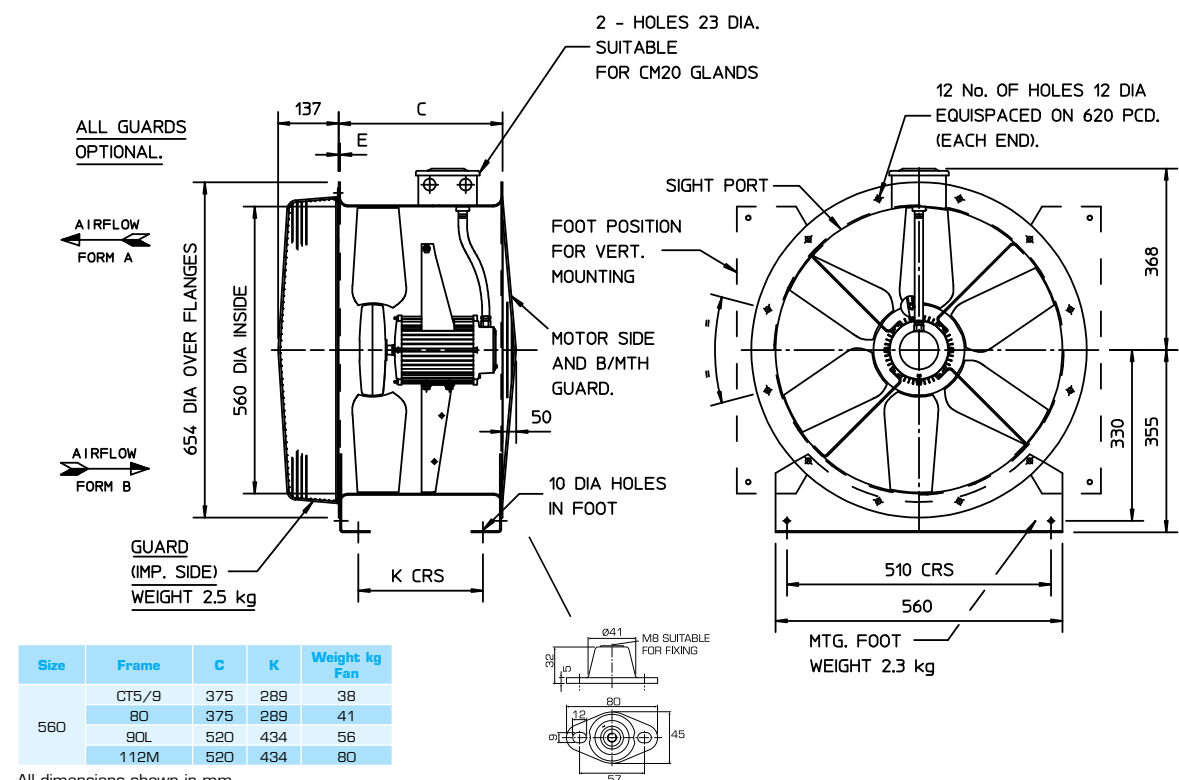
Ref	Product Code	Speed rev/min	Motor	Product Number	Pitch Angle (°)	Rating (kW)	Full Load Current (A)	Starting Current (A)	Wiring Diagram Ref	Speed Controller		Sound Level dBA	
										Electronic	Transformer		
220-240V/50Hz/1 Ph													
3	56JM/16/4/5/...	1420	CT5	JL571453	18-20	0.52	3.9	7.8	QD1705	ME1.6	MT1.5	57	
6	56JM/16/4/5/...	1420	CT9	DX571456	32	0.97	6.7	13.5	QD1705	ME1.6	MT1.8	58	
5	56JM/20/4/6/...	1420	CT9	DX571459	28	0.97	6.7	13.5	QD1705	ME1.6	MT1.8	58	
1	63JM/20/6/6/...	900	CT5	JL641651	16-22	0.29	2.3	4.1	QD1705	ME1.3	MT1.5	49	
2	63JM/20/6/6/...	900	CT9	JL641652	26-30	0.53	0.38	6.8	QD1705	ME1.6	MT1.8	52	
4	63JM/20/4/6/...	1420	CT9	DX641453	16	0.97	6.7	13.5	QD1705	ME1.6	MT1.8	61	
380-420V/50Hz/3 Ph											Transformer	Inverter	
8	56JM/16/4/5/...	1420	CT5	JL591452	16-24	0.54	1.8	4.9	QD2417	MT3.2	FWX1	57	
9	56JM/16/4/5/...	1385	80	EE591473	8-30	0.9	1.92	9.78	QD2416	N/A	FWX1	60	
10	56JM/20/4/6/...	1425	90S	EE591478	8-36	1.32	2.84	15.6	QD2416	N/A	FWX2	62	
13	56JM/20/2/6/...	2865	112M	EE591271	8-22	6.05	11.6	76.56	QD2417	N/A	FWX5	73	
7	63JM/20/6/6/...	900	CT9	JL661652	26-30	0.5	1.5	4.5	QD2420	MT3.2	FWX1	50	
11	63JM/20/4/6/...	1425	90S	EE661473	8-22	1.32	2.84	15.6	QD2416	N/A	FWX2	60	
12	63JM/20/4/6/...	1405	100L	EE661474	8-36	2.64	5.49	30.62	QD2416	N/A	FWX3	64	

Sound pressure levels quoted are average dBA at 3m distance over a sphere, under free field conditions and are presented for comparative purposes only. When fans are operating in excess of 50°C they should be run at full speed only. For Short cased fans please omit the prefix from the product number and state S-type on enquiries/orders. Product numbers shown are for Long cased fans. Wiring diagrams can be found on pages 17-18.

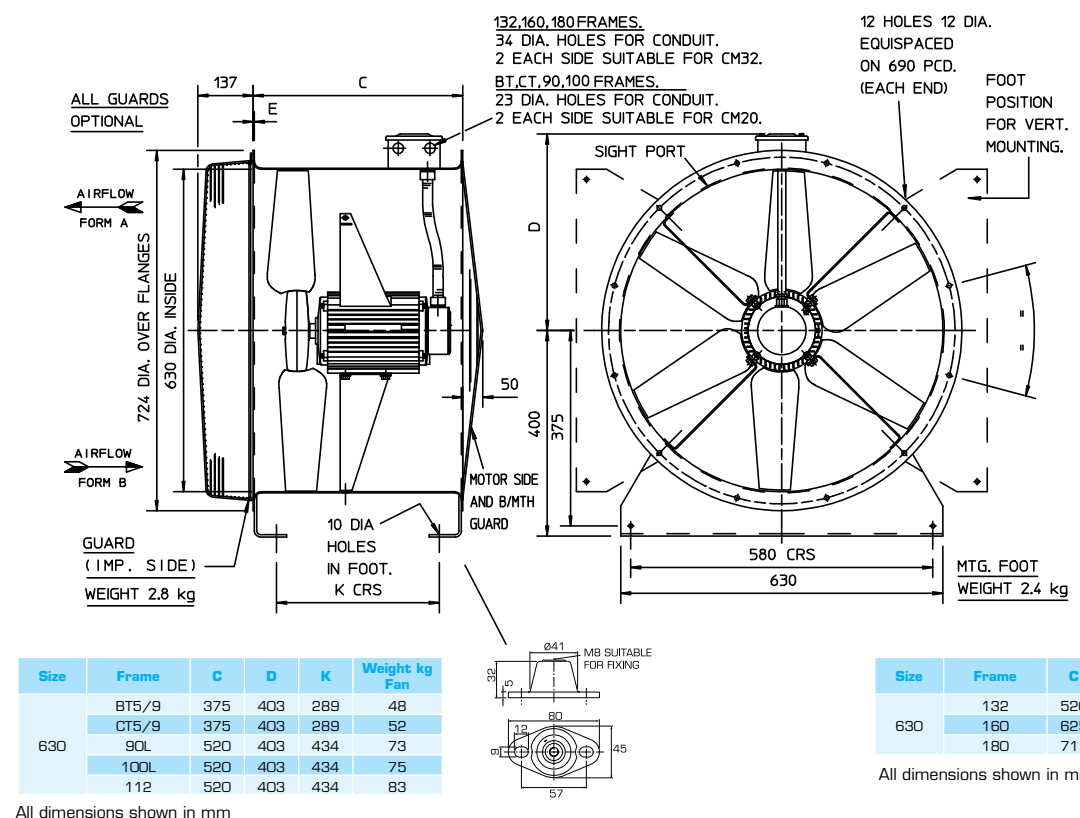
Bold text denotes Super Express Product, next day delivery available if ordered by 4pm.

The fan noise levels shown are for the specified operating point. When an electronic controller is incorporated, a magnetic note may occur. FWL recommend using an auto transformer speed controller. Fans are supplied at catalogue stated angle. Should you wish for the pitch angle to be adjusted, we would be happy to offer a quotation.

Dimensions - 56 JM Aerofoil



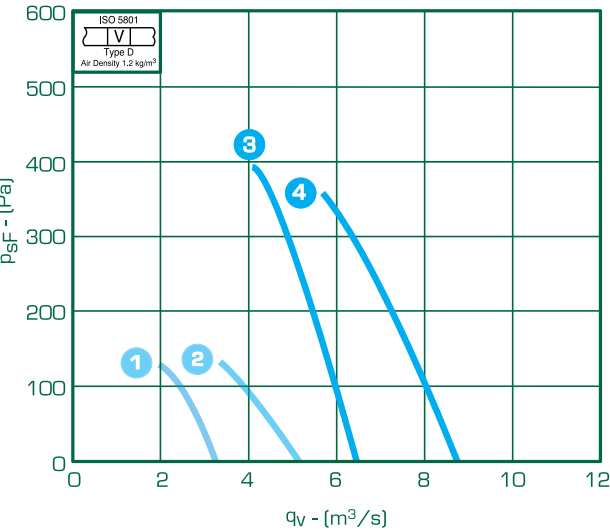
Dimensions - 63 JM Aerofoil



Performance Data

71 JM

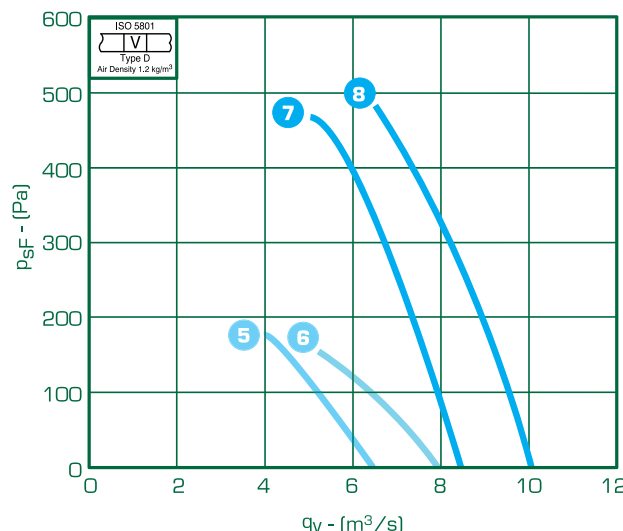
1 - 71JM/20/6/6/18	3 - 71JM/20/4/6/24
2 - 71JM/20/6/6/36	4 - 71JM/20/4/6/36



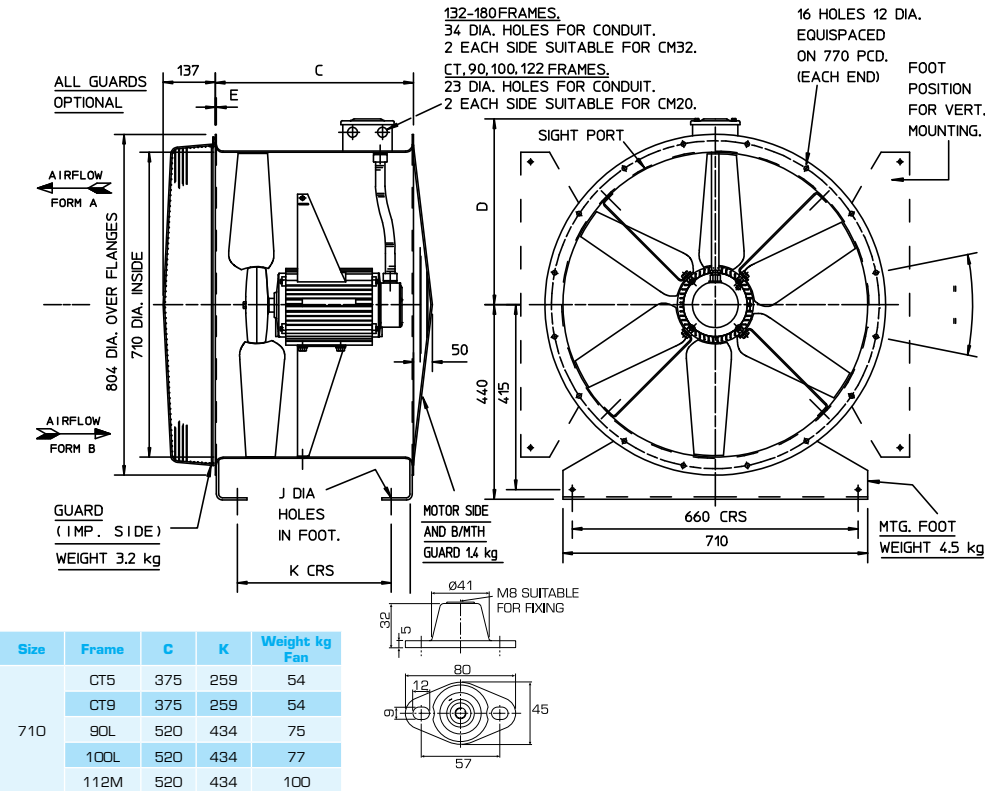
Ref	Product Code	m³/s at Pa (Static)							
		0	50	100	150	200	250	300	400
1	71JM/20/6/6/...	3.29	2.97	2.54					
2	71JM/20/6/6/...	5.47	4.89	4.23					
3	71JM/20/4/6/...	6.49	6.24	6.00	5.76	5.51	5.25	4.92	
4	71JM/20/4/6/...	8.75	8.41	8.03	7.66	7.24	6.81	6.34	
5	80JM/20/6/6/...	6.48	5.83	5.20	4.48				
6	80JM/20/6/6/...	7.92	7.32	6.55	5.49				
7	80JM/25/4/9/...	8.42	8.16	7.91	7.62	7.38	7.05	6.75	5.98
8	80JM/25/4/9/...	10.07	9.84	9.54	9.24	8.93	8.61	8.21	7.35

80 JM

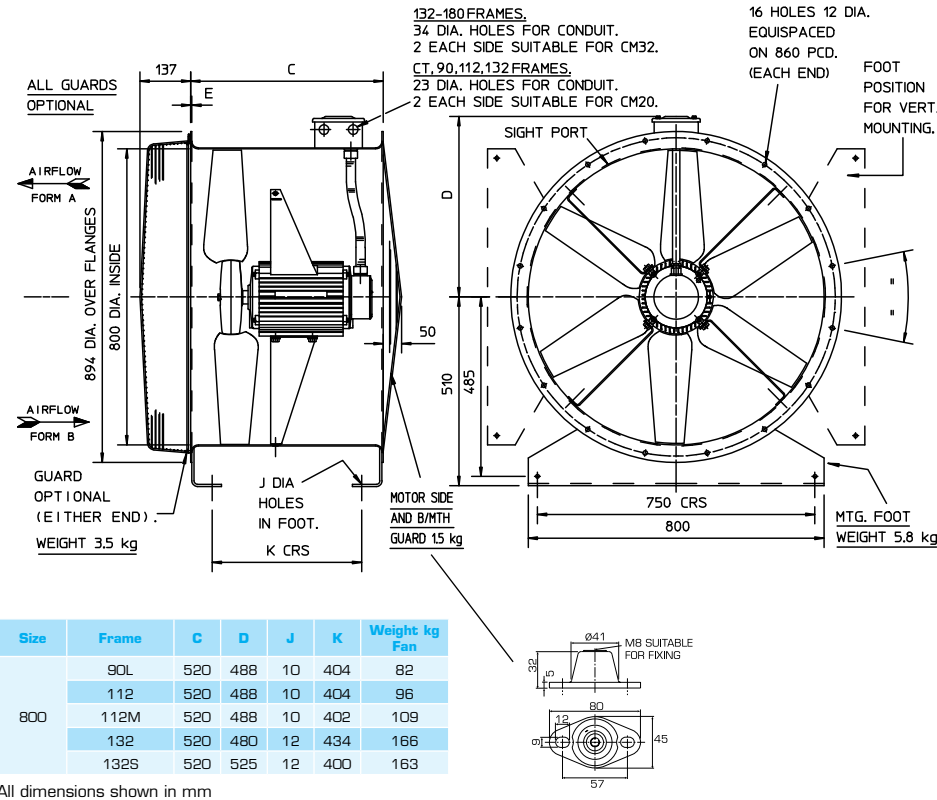
5 - 80JM/20/6/6/26	7 - 80JM/25/4/9/22
6 - 80JM/20/6/6/36	8 - 80JM/25/4/9/28



Dimensions - 71 JM Aerofoil



Dimensions - 80 JM Aerofoil



Electrical Data

Ref	Product Code	Speed rev/min	Motor	380-420V/50Hz/3 Ph							Sound Level dBA	
				Product Number	Pitch Angle (°)	Motor Rating (kW)	Full Load Current (at 400V) (A)	Starting Current (at 400V) (A)	Wiring Diagram Ref	Speed Controller		
										Transformer		Inverter
1	71JM/20/6/6/...	900	CT9	JL741652	16-18	0.5	1.5	4.5	CD2420	MT3.2	FWX1	53
2	71JM/20/6/6/...	905	90L	EE741673	8-30	1.32	3.13	13.07	CD2416		N/A	FWX2
3	71JM/20/4/6/...	1440	100L	EE741471	8-30	3.6	7.29	40.11	CD2416	N/A	FWX4	65
4	71JM/20/4/6/...	1410	112M	EE741474	8-36	4.4	8.7	57.3	CD2417	N/A	FWX5	68
5	80JM/20/6/6/...	905	90L	EE831671	8-24	1.32	3.13	13.07	CD2416	N/A	FWX2	59
6	80JM/20/6/6/...	925	112M	EE831672	8-36	2.64	6.18	26.5	CD2417	N/A	FWX4	63
7	80JM/25/4/9/...	1410	112M	EE831475	8-22	4.8	9.69	49.53	CD2417	N/A	FWX5	70
8	80JM/25/4/9/...	1455	132S	EE831478	8-28	6.6	12.5	76.65	CD2417	N/A	FWX5	71

Sound pressure levels quoted are average dBA at 3m distance over a sphere, under free field conditions and are presented for comparative purposes only. When fans are operating in excess of 50°C they should be run at full speed only. For Short cased fans please omit the prefix from the product number and state S-type on enquiries/orders. Product numbers shown are for Long cased fans. Wiring diagrams can be found on pages 17-18.

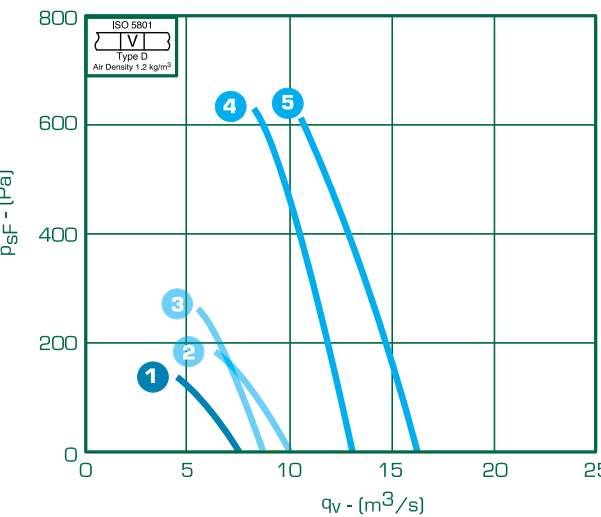
Bold text denotes Super Express Product, next day delivery available if ordered by 4pm.

The fan noise levels shown are for the specified operating point. When an electronic controller is incorporated, a magnetic note may occur. FVWL recommend using an auto transformer speed controller. Fans are supplied at catalogue stated angle. Should you wish for the pitch angle to be adjusted, we would be happy to offer a quotation

Performance Data

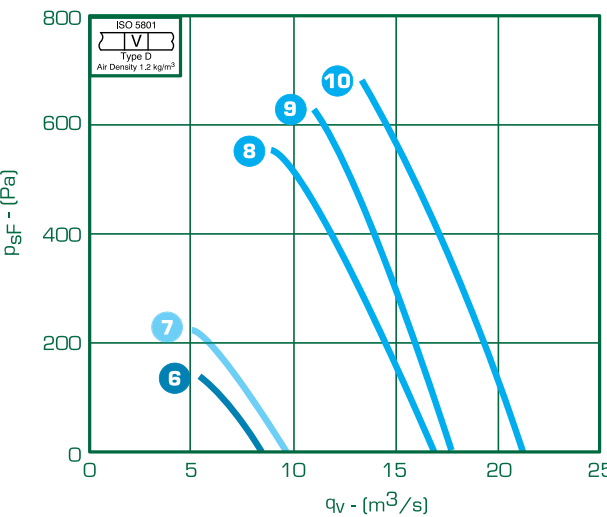
90 JM

1 - 90JM/25/8/9/32 3 - 90JM/25/6/9/24 5 - 90JM/25/4/9/32
2 - 90JM/25/6/6/32 4 - 90JM/25/4/9/24



100 JM

6 - 100JM/25/8/9/22 8 - 100JM/25/4/6/22 10 - 100JM/25/4/9/28
7 - 100JM/25/6/6/18 9 - 100JM/25/4/9/22



Ref	Product Code	m³/s at Pa (Static)									
		0	50	100	150	200	250	300	400	500	
1	90JM/25/8/9/...	7.50	6.74	5.91							
2	90JM/25/6/6/...	9.83	9.06	8.20	7.20						
3	90JM/25/6/9/...	8.58	8.12	7.63	7.14	6.55	5.78				
4	90JM/25/4/9/...	12.40	12.11	11.84	11.53	11.24	10.95	10.64	9.93	9.15	
5	90JM/25/4/9/...	15.53	15.22	14.86	14.46	14.09	13.71	13.33	12.46	11.51	
6	100JM/25/8/9/...	8.36	7.39	6.35							
7	100JM/25/6/6/...	9.52	8.79	7.93	6.95	5.80					
8	100JM/25/4/6/...	16.48	15.87	15.35	14.80	14.20	13.59	13.02	11.66	9.98	
9	100JM/25/4/9/...	17.70	17.22	16.79	16.31	15.88	15.40	14.94	13.88	12.72	
10	100JM/25/4/9/...	20.98	20.53	20.07	19.59	19.10	18.61	18.10	17.00	15.76	

Electrical Data

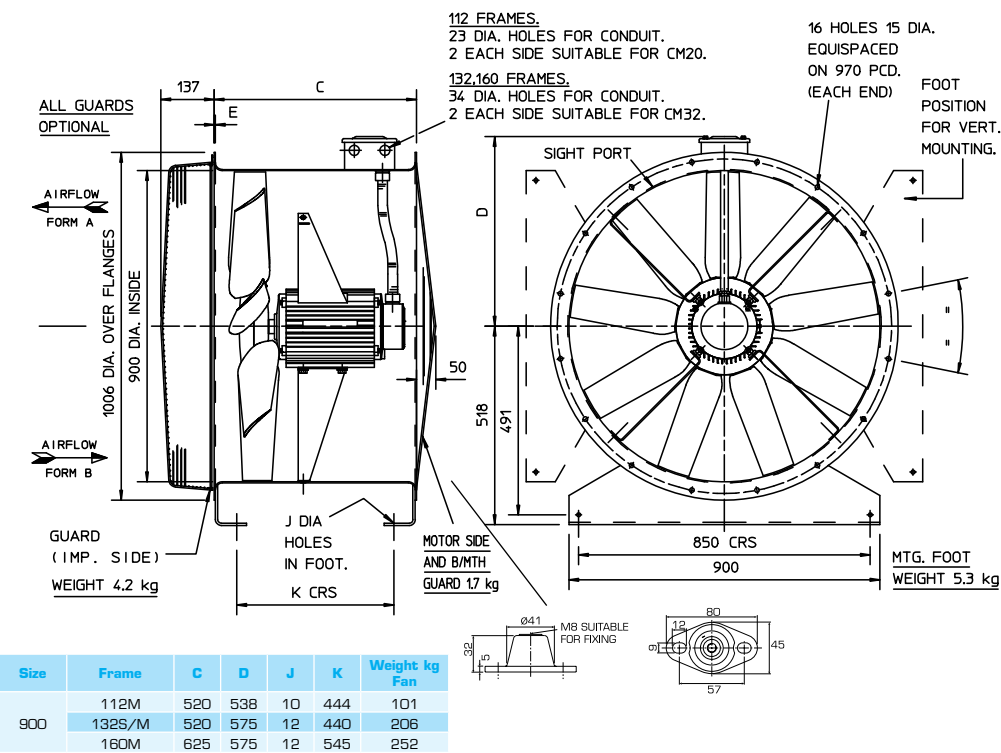
Ref	Product Code	Speed rev/min	Motor	380-420V/50Hz/3 Ph								Sound Level dBA	
				Product Number	Pitch Angle (°)	Pitch Angle 200°C (°)	Motor Rating (kW)	Full Load Current (at 400V) (A)	Starting Current (at 400V) (A)	Wiring Diagram Ref	Speed Controller		
											Transformer		Inverter
1	90JM/25/8/9/...	685	112M	EE931872	8-36		1.8	4.51	19.22	CD2417	N/A	FWX3	57
2	90JM/25/6/6/...	925	112M	EE933672	8-32		2.64	6.18	26.5	CD2417	N/A	FWX4	66
3	90JM/25/6/9/...	925	112M	EE931672	8-24		2.64	6.18	26.5	CD2417	N/A	FWX4	63
4	90JM/25/4/9/...	1455	132M	EE931473	8-24		9	17.1	102	CD2417	N/A	FWX6	77
5	90JM/25/4/9/...	1440	160M	EE931476	8-32		13.2	25.3	136	CD2417	N/A	FWX8	76
6	100JM/25/8/9/...	685	112M	EE131872	8-26		1.8	4.51	19.22	CD2417	N/A	FWX3	62
7	100JM/25/6/6/...	925	112M	EE133672	8-22		2.64	6.18	26.5	CD2417	N/A	FWX4	69
8	100JM/25/4/6/...	1455	132M	EE133472	8-22		9	17.1	102	CD2417	N/A	FWD7	79
9	100JM/25/4/9/...	1440	160M	EE131479	8-22		13.2	25.3	136	CD2417	N/A	FWD8	85
10	100JM/25/4/9/...	1440	160L	EE131475	8-28		18	34.8	178	CD2417	N/A	FWD9	81

Sound pressure levels quoted are average dBA at 3m distance over a sphere, under free field conditions and are presented for comparative purposes only. When fans are operating in excess of 50°C they should be run at full speed only. For Short cased fans please omit the prefix from the product number and state S-type on enquiries/orders. Product numbers shown are for Long cased fans. Wiring diagrams can be found on pages 17-18.

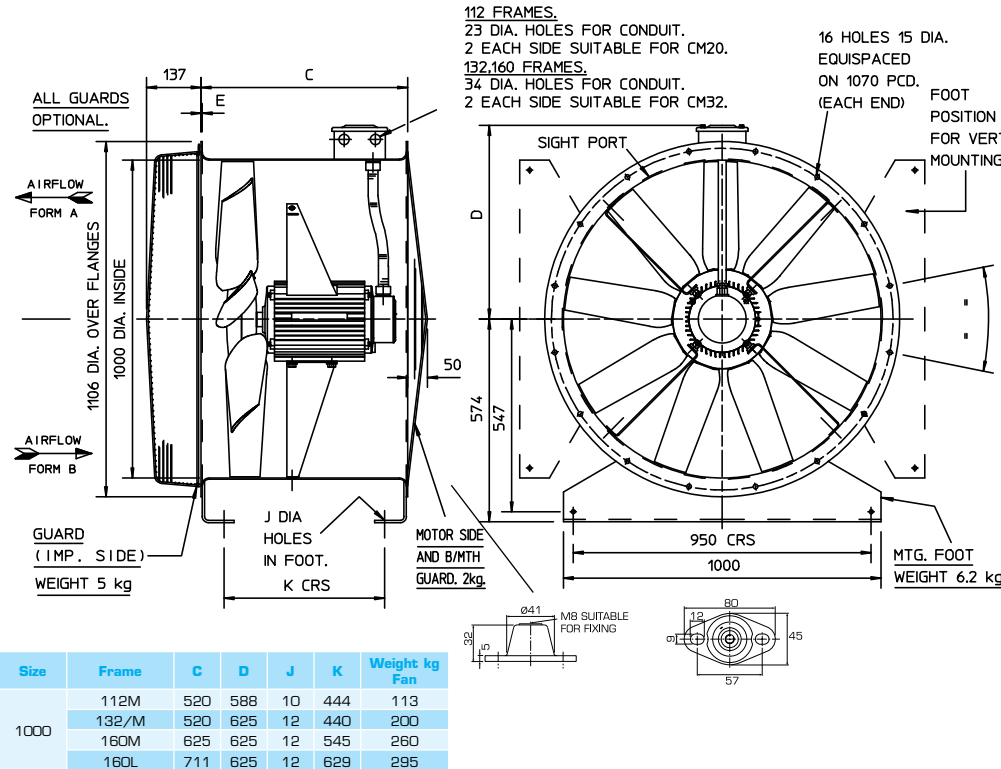
Bold text denotes Super Express Product, next day delivery available if ordered by 4pm.

The fan noise levels shown are for the specified operating point. When an electronic controller is incorporated, a magnetic note may occur. FVL recommend using an auto transformer speed controller. Fans are supplied at catalogue stated angle. Should you wish for the pitch angle to be adjusted, we would be happy to offer a quotation

Dimensions - 90 JM Aerofoil



Dimensions - 100 JM Aerofoil



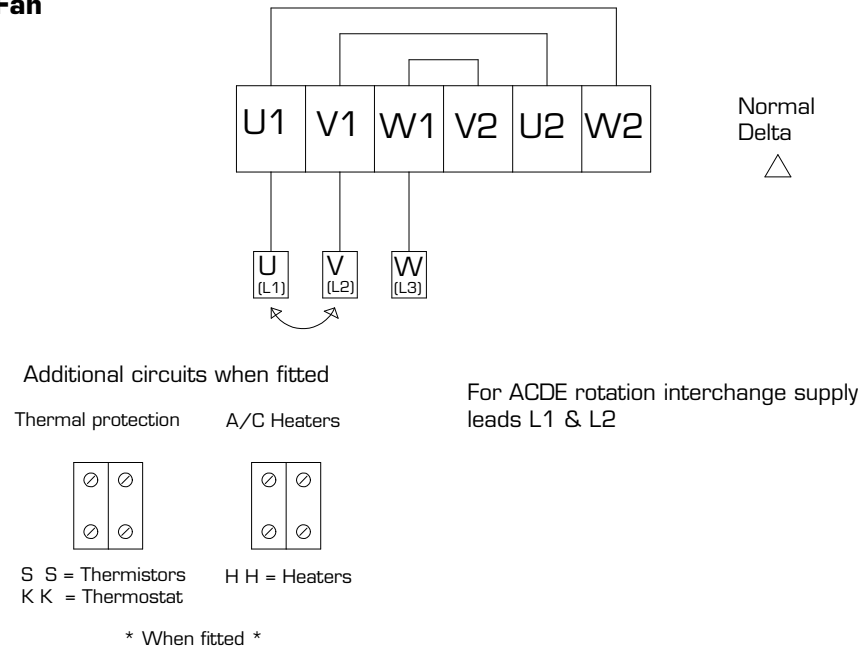
All dimensions shown in mm



Wiring Diagrams

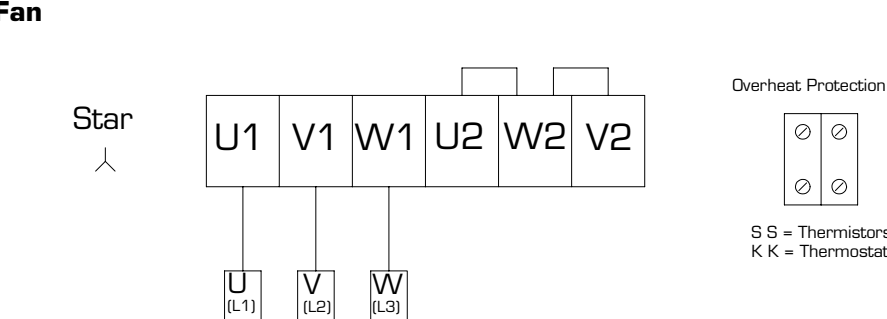
CD2417

Fan



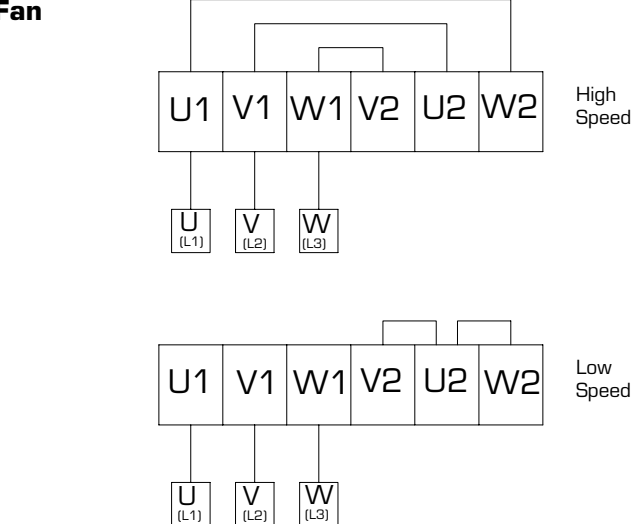
CD2416

Fan



CD2420

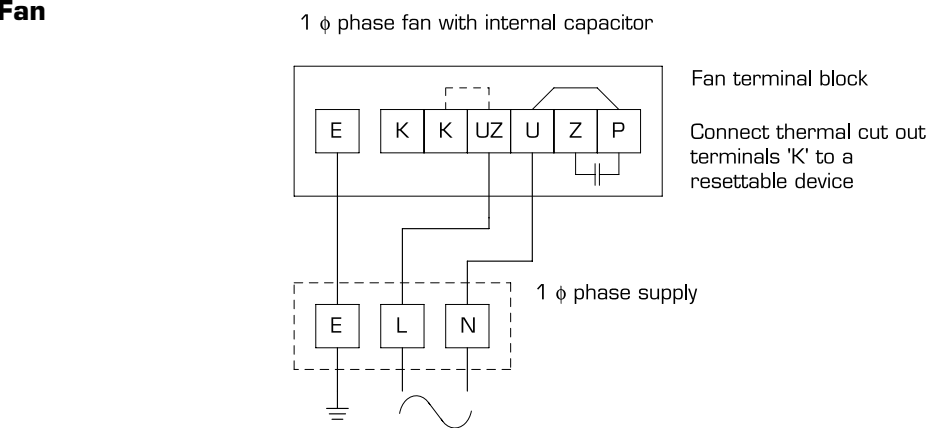
Fan



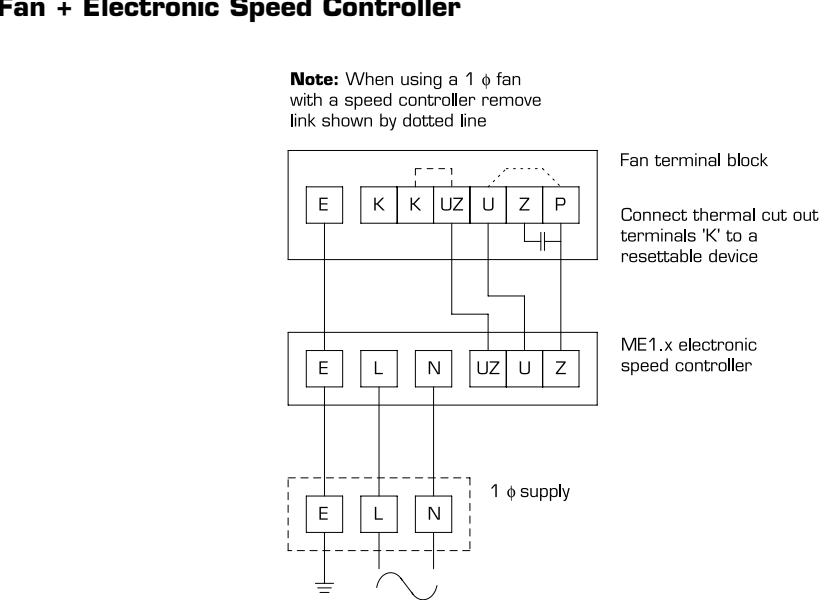
Wiring Diagrams

CD1705

Fan



Fan + Electronic Speed Controller



Fan + Transformer Speed Controller

