HTJM Aerofoil - Cased Axial Fans

Features
- 315 - 1000 mm diameter
- Volumes up to 75,600 m³/h (21 m³/s)
- Static pressures up to 900 Pa
- IP55 motor rating
- Fans tested to ISO5801 and BS848
- High energy efficiency
- Low installed noise levels
- Motor protection IP55
- Larger sizes available please enquire for more information

Specifications are subject of alteration without further notice

Axial Fans Catalogue (50Hz)

HTJM Aerofoil - Cased Axial Fans

Sizes
315, 355, 400, 450, 500, 560, 630, 710, 800, 900 and 1000 mm

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.

Motors
Fläkt Woods H.T. Series fans utilise a totally enclosed squirrel cage motor. The grades of motor insulation has been selected to meet the specific requirements for each of the H.T. Categories. These motors are suitable for inverter speed control down to 20% of full speed and where within scope incorporate IE2 compliant motors.

Casings
HT JM Aerofoil fans are available in 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.

Temperature Range
Fans are tested in compliance with high temperature test standard directive 89/106/EEC to EN 12101-3, and are fully CE marked accordingly.

Fläkt Woods H.T. Series fan motors are sized to run the fans continuously at normal ambient temperatures (-40°C to 50°C), as well as operating at their emergency high temperature category (once off usage).

Note: During emergency use the inverter should be overridden and the fan run at full speed.

Product Code
HT63JM/20/4/6/36
- HT - denotes high temperature fan
- 63 - denotes the fan impeller diameter in centimetres
- JM - denotes axial fan family
- 20 - denotes impeller hub diameter in centimetres
- 4 - denotes a nominal 4 pole speed
- 6 - denotes the number of blades
- 36 - denotes the pitch angle for the required duty

Accessories
- Damper
- Guard
- Bellmouth
- Flange
- Mounting Feet
- Rubber AV’s
- Spring AV’s
- Flexible Connector
- Silencer
- Controls
- Inverter

Electrical Supply
380-420V/50Hz/3 Ω

Temperature Range
- -40°C to 50°C as standard
- 300°C and 400°C for 2 hours on one off emergency operation only
- High temperature test standard directive 89/106/EEC to EN 12101-3
HTJM Aerofoil Performance and Electrical Data

Performance Chart - 315-355 mm, 300°C for 2 hours
380-420v/50Hz/3φ

Performance Table - 315-355 mm, 300°C for 2 hours
380-420v/50Hz/3φ

Product, Electrical and ErP Table - 315-355 mm, 300°C for 2 hours
380-420v/50Hz/3φ

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.
HTJM Aerofoil Performance and Electrical Data

Performance Chart - 400-450 mm, 300°C for 2 hours
380-420v/50Hz/3f

<table>
<thead>
<tr>
<th>Ref</th>
<th>Product Code</th>
<th>Product Number</th>
<th>Pitch Angle (°)</th>
<th>Speed (r/min)</th>
<th>Motor Rating (kW)</th>
<th>Full Load Current (A)</th>
<th>Starting Current (A)</th>
<th>Wiring Diagram (CD)</th>
<th>Speed Controller</th>
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<tr>
<td>3</td>
<td>HT40JM/16/2/5/32</td>
<td>EJ439280</td>
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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.
HTJM Aerofoil Performance and Electrical Data

Performance Chart - 500-560 mm, 300°C for 2 hours
380-420v/50Hz/3φ

Performance Table - 500-560 mm, 300°C for 2 hours
380-420v/50Hz/3φ

<table>
<thead>
<tr>
<th>Ref</th>
<th>Product Code</th>
<th>Inlet Pitch Angle (°)</th>
<th>Speed (m³/s)</th>
<th>Motor Rating (kW)</th>
<th>Full Load Current (A)</th>
<th>Starting Current (A)</th>
<th>Wiring Diagram (CD)</th>
<th>Speed Controller</th>
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<td>N/A</td>
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Product, Electrical and ErP Table - 500-560 mm, 300°C for 2 hours
380-420v/50Hz/3φ

<table>
<thead>
<tr>
<th>Ref</th>
<th>Product Code</th>
<th>Inlet Pitch Angle (°)</th>
<th>Inlet Sound Levels</th>
<th>Efficiency Rating</th>
<th>Target</th>
<th>Grade</th>
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<td>4</td>
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<td>8 54</td>
<td>50.1</td>
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</tr>
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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.
HTJM Aerofoil Performance and Electrical Data

Performance Chart - 630-710 mm, 300°C for 2 hours
380-420v/50Hz/3f

Performance Table - 630-710 mm, 300°C for 2 hours
380-420v/50Hz/3f

Product, Electrical and ErP Table - 630-710 mm, 300°C for 2 hours
380-420v/50Hz/3f

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.
HTJM Aerofoil Performance and Electrical Data

Performance Chart - 800, 900, 1000 mm, 300°C for 2 hours
380-420v/50Hz/3φ

Performance Table - 800, 900, 1000 mm, 300°C for 2 hours
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
--- | -------------- | --------------- | --------------- | ----------------- | ----------------- | --------------------- | -------------------- | ------------------- | ----------------- |
1  | HT80JM/25/4/9/36 | EJ839493 10 36 1440 132S (IE2) 8.63 16.36 101.52 CD2417 N/A N/A IDDXF54-23
2  | HT90JM/25/4/9/32 | EJ939481 10 32 1440 132M (IE2) 12.7 24 163.2 CD2417 N/A N/A IDDXF54-31
3  | HT100JM/25/4/9/28 | EE139485 8 28 1470 160L (IE2) 18 34.2 177.84 CD2417 N/A N/A IDDXF54-37

Product, Electrical and ErP Table - 800, 900, 1000 mm, 300°C for 2 hours
380-420v/50Hz/3φ

Ref | Product Code | Product Number | Inlet Sound Levels | Efficiency Rating | Target | Grade
--- | -------------- | --------------- | ------------------- | --------------- | ------ | --- |
1  | HT80JM/25/4/9/36 | EJ839493 77 56.5 54.2 59
2  | HT90JM/25/4/9/32 | EJ939481 88 61.3 55.1 61
3  | HT100JM/25/4/9/28 | EE139485 84 64.1 55.3 63

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.
Axial Fans Catalogue (50Hz)

**Drawing - HTJM Aerofoil, 300°C for 2 hours**

315-1000 mm

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Motor</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
<th>P</th>
<th>S</th>
<th>T</th>
<th>X</th>
<th>Weight (kg)</th>
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<td>80 (IE2)</td>
<td>396</td>
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<td>335</td>
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<td>265</td>
<td>315</td>
<td>200</td>
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<td>10</td>
<td>0.8</td>
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<td>80 (IE2)</td>
<td>435</td>
<td>355</td>
<td>375</td>
<td>256</td>
<td>200</td>
<td>355</td>
<td>10</td>
<td>290</td>
<td>305</td>
<td>355</td>
<td>205</td>
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<td>10</td>
<td>1.1</td>
<td>34</td>
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<tr>
<td>HT40JM/16/2/5/32</td>
<td>80 (IE2)</td>
<td>480</td>
<td>400</td>
<td>375</td>
<td>279</td>
<td>225</td>
<td>450</td>
<td>10</td>
<td>290</td>
<td>350</td>
<td>400</td>
<td>250</td>
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<td>12</td>
<td>1.2</td>
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<tr>
<td>HT40JM/16/4/5/40</td>
<td>80 (IE2)</td>
<td>480</td>
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<td>375</td>
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<td>12</td>
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<td>450</td>
<td>375</td>
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<td>12</td>
<td>1.5</td>
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<td>450</td>
<td>520</td>
<td>306</td>
<td>225</td>
<td>500</td>
<td>10</td>
<td>434</td>
<td>400</td>
<td>450</td>
<td>280</td>
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<tr>
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<td>80 (IE2)</td>
<td>594</td>
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<td>375</td>
<td>338</td>
<td>290</td>
<td>560</td>
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<td>290</td>
<td>450</td>
<td>500</td>
<td>315</td>
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<td>112M (IE2)</td>
<td>594</td>
<td>500</td>
<td>520</td>
<td>338</td>
<td>290</td>
<td>560</td>
<td>10</td>
<td>434</td>
<td>450</td>
<td>500</td>
<td>315</td>
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<td>12</td>
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<td>368</td>
<td>330</td>
<td>620</td>
<td>10</td>
<td>424</td>
<td>510</td>
<td>560</td>
<td>355</td>
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<td>12</td>
<td>2.3</td>
<td>55</td>
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<tr>
<td>HT56JM/20/2/6/22</td>
<td>112M (IE2)</td>
<td>654</td>
<td>560</td>
<td>520</td>
<td>368</td>
<td>330</td>
<td>620</td>
<td>10</td>
<td>424</td>
<td>510</td>
<td>560</td>
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<td>724</td>
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<td>520</td>
<td>403</td>
<td>375</td>
<td>650</td>
<td>10</td>
<td>434</td>
<td>580</td>
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<td>724</td>
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<td>650</td>
<td>10</td>
<td>434</td>
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<td>710</td>
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<td>415</td>
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<td>660</td>
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<td>606</td>
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All dimensions in mm
HTJM Aerofoil Performance and Electrical Data

Performance Chart - 315-355 mm, 400°C for 2 hours
380-420v/50Hz/3f

Performance Table - 315-355 mm, 400°C for 2 hours
380-420v/50Hz/3f

<table>
<thead>
<tr>
<th>Ref</th>
<th>Product Code</th>
<th>Product Number</th>
<th>Pitch Angle (°) Min</th>
<th>Max</th>
<th>Speed (m/s)</th>
<th>Motor Rating (kW)</th>
<th>Full Load Current (A)</th>
<th>Starting Current (A)</th>
<th>Wiring Diagram (CD)</th>
<th>Speed Controller</th>
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</thead>
<tbody>
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<td>HT31JM/16/2/5/40</td>
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Product, Electrical and ErP Table - 315-355 mm, 400°C for 2 hours
380-420v/50Hz/3f

<table>
<thead>
<tr>
<th>Ref</th>
<th>Product Code</th>
<th>Product Number</th>
<th>Inlet Sound Levels</th>
<th>Efficiency Rating</th>
<th>Target</th>
<th>Grade</th>
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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.

Specifications are subject of alteration without further notice.
HTJM Aerofoil Performance and Electrical Data

Performance Chart - 400-450 mm, 400°C for 2 hours
380-420v/50Hz/3f

Performance Table - 400-450 mm, 400°C for 2 hours
380-420v/50Hz/3f

Product, Electrical and ErP Table - 400-450 mm, 400°C for 2 hours
380-420v/50Hz/3f

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.
**HTJM Aerofoil Performance and Electrical Data**

**Performance Chart - 500-560 mm, 400°C for 2 hours**
380-420v/50Hz/3f

**Performance Table - 500-560 mm, 400°C for 2 hours**
380-420v/50Hz/3f

<table>
<thead>
<tr>
<th>Ref</th>
<th>Product Code</th>
<th>Product Number</th>
<th>m³/s @ Pa (Static)</th>
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<tbody>
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<td>4.33</td>
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</table>

**Product, Electrical and ErP Table - 500-560 mm, 400°C for 2 hours**
380-420v/50Hz/3f

<table>
<thead>
<tr>
<th>Ref</th>
<th>Product Code</th>
<th>Product Number</th>
<th>Pitch Angle (°)</th>
<th>Speed rev/min</th>
<th>Motor Rating (kW)</th>
<th>Full Load Current (A)</th>
<th>Starting Current (A)</th>
<th>Wiring Diagram (CD)</th>
<th>Speed Controller</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>HT50JM/20/4/6/40</td>
<td>EJ539494</td>
<td>14-40</td>
<td>1400</td>
<td>90 (62)</td>
<td>1.9</td>
<td>9.79</td>
<td>C22416</td>
<td>N/A</td>
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<tr>
<td>2</td>
<td>HT56JM/20/4/6/40</td>
<td>EJ599494</td>
<td>14-40</td>
<td>1400</td>
<td>90L (82)</td>
<td>1.8</td>
<td>3.76</td>
<td>C22416</td>
<td>N/A</td>
</tr>
</tbody>
</table>

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.
HTJM Aerofoil Performance and Electrical Data

Performance Chart - 630-710 mm, 400°C for 2 hours
380-420v/50Hz/3φ

Performance Table - 630-710 mm, 400°C for 2 hours
380-420v/50Hz/3φ

<table>
<thead>
<tr>
<th>Ref</th>
<th>Product Code</th>
<th>Product Number</th>
<th>Pitch Angle (°)</th>
<th>Speed rev/min</th>
<th>Motor Rating (kW)</th>
<th>Full Load Current (A)</th>
<th>Starting Current (A)</th>
<th>Wiring Diagram</th>
<th>Speed Controller</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>HT63JM/20/4/8/28</td>
<td>EJ669494</td>
<td>10 28</td>
<td>1420 93L (IE2)</td>
<td>1.8</td>
<td>3.78</td>
<td>20.66</td>
<td>C22418</td>
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<tr>
<td>2</td>
<td>HT71JM/25/4/9/34</td>
<td>EJ749494</td>
<td>10 34</td>
<td>1440 112M (IE2)</td>
<td>4.8</td>
<td>9.99</td>
<td>49.42</td>
<td>C22417</td>
<td>N/A</td>
</tr>
</tbody>
</table>

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.
HTJM Aerofoil Performance and Electrical Data

Performance Chart - 800-900 mm, 400°C for 2 hours
380-420v/50Hz/3φ

Performance Table - 800-900 mm, 400°C for 2 hours
380-420v/50Hz/3φ

<table>
<thead>
<tr>
<th>Ref</th>
<th>Product Code</th>
<th>Product Number</th>
<th>Pitch Angle (°)</th>
<th>Speed Range/min</th>
<th>Motor Efficiency (W)</th>
<th>Full Load Current (A)</th>
<th>Starting Current (A)</th>
<th>Wiring Diagram (CD)</th>
<th>Speed Controller</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>HT80JM/25/4/9/28</td>
<td>EJ839494</td>
<td>10</td>
<td>1440-1320</td>
<td>6.6</td>
<td>12.5</td>
<td>76.25</td>
<td>C20417</td>
<td>N/A</td>
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<tr>
<td>2</td>
<td>HT90JM/25/4/9/28</td>
<td>EJ939494</td>
<td>14.8</td>
<td>1440-1320</td>
<td>10.6</td>
<td>19.9</td>
<td>133.33</td>
<td>C20417</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Product, Electrical and ErP Table - 800-900 mm, 400°C for 2 hours
380-420v/50Hz/3φ

<table>
<thead>
<tr>
<th>Ref</th>
<th>Product Code</th>
<th>Product Number</th>
<th>Inlet Sound Levels</th>
<th>Inlet Sound Rating</th>
<th>Target</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>HT80JM/25/4/9/28</td>
<td>EJ839494</td>
<td>75</td>
<td>54.7</td>
<td>53.4</td>
<td>59</td>
</tr>
<tr>
<td>2</td>
<td>HT90JM/25/4/9/28</td>
<td>EJ939494</td>
<td>79</td>
<td>59.6</td>
<td>55.0</td>
<td>59</td>
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</tbody>
</table>

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.
HTJM Aerofoil Performance and Electrical Data

Performance Chart - 1000 mm, 400°C for 2 hours
380-420v/50Hz/3φ

Performance Table - 1000 mm, 400°C for 2 hours
380-420v/50Hz/3φ

Product, Electrical and ErP Table - 1000 mm, 400°C for 2 hours
380-420v/50Hz/3φ

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.
### Specifications

**Product Code**
- **HT31JM/16/2/5/40**: 80 (IE2) 395 315 375 335 175 355 10 290 265 315 200 8 10 0.8 31
- **HT35JM/16/2/5/40**: 80 (IE2) 435 355 375 256 305 250 8 12 1.2 35
- **HT40JM/16/2/5/32**: 80 (IE2) 480 400 375 279 225 450 10 290 350 250 8 12 1.1 34
- **HT40JM/16/4/5/40**: 80 (IE2) 480 400 375 279 225 450 10 290 350 250 8 12 1.2 35
- **HT45JM/20/4/6/40**: 80 (IE2) 530 450 375 306 225 500 10 290 450 280 8 12 1.5 37
- **HT50JM/20/4/6/40**: 90L (IE2) 654 560 520 368 330 620 10 424 510 560 355 12 12 2.3 55
- **HT63JM/20/4/6/28**: 90L (IE2) 724 630 520 403 375 690 10 434 580 630 400 12 12 2.4 61
- **HT71JM/25/4/9/34**: 112M (IE2) 804 710 520 443 415 770 10 434 660 710 440 16 12 4.5 95
- **HT80JM/25/4/9/28**: 132S (IE2) 894 800 520 480 485 860 12 434 750 800 510 16 12 5.3 166
- **HT90JM/25/4/9/28**: 132M (IE2) 1006 900 520 575 491 970 12 440 850 900 518 16 15 5.3 179
- **HT100JM/31/4/6/26**: 132M (IE2) 1138 1000 520 625 605 1070 14 440 950 1000 574 16 15 13.2 218
- **HT100JM/31/4/9/28**: 190L (IE2) 1138 1000 711 625 605 1070 14 629 950 1000 574 16 15 13.2 335

*All dimensions in mm*
Wiring Diagrams - HTJM Aerofoil

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)

CD2417

THREE PHASE
FIXED SPEED
DELTA CONNECTION

INCOMING MOTOR LEADS
TO MATCH TERMINAL
BLOCK LETTERING.

CLOCKWISE
ROTATION

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

A/C HEATERS
HH - HEATERS

THREE PHASE SUPPLY
COUNTER CLOCKWISE: REVERSE (L1) AND (L2)
Axial Fans Catalogue (50Hz)

Wiring Diagrams - JM Aerofoil

CD2420

THREE PHASE
DUAL SPEED RECONNECTION
APPLICABLE FOR 3PH 6 WIRE MOTORS.

THREE PHASE SUPPLY
L1 L2 L3

CLOCKWISE
ROTATION

DUAL SPEED CONTROL UNIT

FAN TERMINAL BLOCK

ADDITIONAL CIRCUITS WHEN FITTED:
- THERMAL PROTECTION
- SS - THERMISTOR
- KK - THERMOSTAT
- A/C HEATERS
- RR - HEATERS

LOW SPEED

INCOMING MOTOR LEADS TO MATCH TERMINAL BLOCK LETTERING.

HIGH SPEED

STAR CD2414

DELTA CD2417

CD2423

THREE PHASE
DELTA STAR RECONNECTION
APPLICABLE FOR 3PH 6 WIRE MOTORS.

THREE PHASE SUPPLY
L1 L2 L3

CLOCKWISE
ROTATION

DUAL SPEED CONTROL UNIT

STAR DELTA STARTER

FAN TERMINAL BLOCK

INCOMING MOTOR LEADS TO MATCH TERMINAL BLOCK LETTERING.

NOTE - FOR OTHER CIRCUITS IF FITTED:
- HH - ANTI-CONDENSATION HEATERS
- KK - OVERHEAT CUTOFF (MAX 6.3A)
- SS - THERMISTOR (OPERATING RESISTANCE 3kΩ)