YB3 Series Explosion-proof Induction Motors

- Frame sizes: 80 to 355  Rated output: 0.18 to 315kW
- Voltage: 380V, 660V, 380/660V  50Hz (for Exd-symbol Exd I and frame size 80-355);
- 660V/1140V  50Hz (for Exd-symbol Exd I and frame size 112-355);
- 380V, 660V, 380/660V  50Hz & 400V, 415V, 440V, 460V, 480V, 690V  60Hz (for Exd-symbol Exd II)
- Degree of protection: IP55  Efficiency levels: IE2

Applications: Ideal for the coal mine where methane and coal dust may be present (Ex d I) and dangerous explosion areas (Ex d II AT4, d II BT4) in the plant with the class II A, II B and temperature T1~T4 flammable gas.

Features:
- Exd-symnbol Exd I, Exd II AT4, Exd II BT4, Category I: surface highest temperature no higher than 150°C (when coal dust may cover the motor surface), no higher than 450°C (when coal dust will not cover the surface or some protection work has been done to prevent the coal dust accumulation) Category II: surface highest temperature no higher than T1 (450°C), T2 (300°C), T3 (200°C), T4 (135°C); Terminal box with three or six terminals for rubber jacket cable (plastic cable) and steel cable.

Ambient temperature: −15°C~35°C in coal mine and −15°C~40°C in plant

Rated Voltage: 380V, 660V, 380/660V

### Performance Data

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<th>RPM</th>
<th>Eff. %</th>
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**Synchronous speed**: 1500r/min

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<th>RPM</th>
<th>Eff. η%</th>
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### 380V 50Hz

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Synchronous speed: **750 r/min**

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# Dimensions & Mounting

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*Note: All dimensions are in mm.*
### B5 (Footless and B5 Flange Mounted)

![Diagram of B5 motor](image)

### B35 (Foot and B5 Flange Mounted)

![Diagram of B35 motor](image)

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<td>435</td>
<td>450</td>
<td>255</td>
</tr>
<tr>
<td>250M</td>
<td>2</td>
<td>406</td>
<td>349</td>
<td>168</td>
<td>60</td>
<td>140</td>
<td>18</td>
<td>53</td>
<td>250</td>
<td>24</td>
<td>500</td>
<td>450</td>
<td>550</td>
<td>0</td>
<td>19</td>
<td>5</td>
<td>8</td>
<td>80</td>
<td>420</td>
<td>490</td>
<td>30</td>
<td>490</td>
<td>510</td>
<td>285</td>
</tr>
</tbody>
</table>
Conventional mounting type and suitable frame size are given in following table (with “√”)

<table>
<thead>
<tr>
<th>Frame</th>
<th>Basic Type</th>
<th>Derived Type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>B3</td>
<td>B5</td>
</tr>
<tr>
<td>80~112</td>
<td>√</td>
<td>√</td>
</tr>
<tr>
<td>132~160</td>
<td>√</td>
<td>√</td>
</tr>
<tr>
<td>180~280</td>
<td>√</td>
<td>√</td>
</tr>
<tr>
<td>315~355</td>
<td>√</td>
<td>-</td>
</tr>
</tbody>
</table>

Note: “√” indicates the type of structure that can be manufactured. When ordering the motor, if the terminal box is not specified, it is top type.