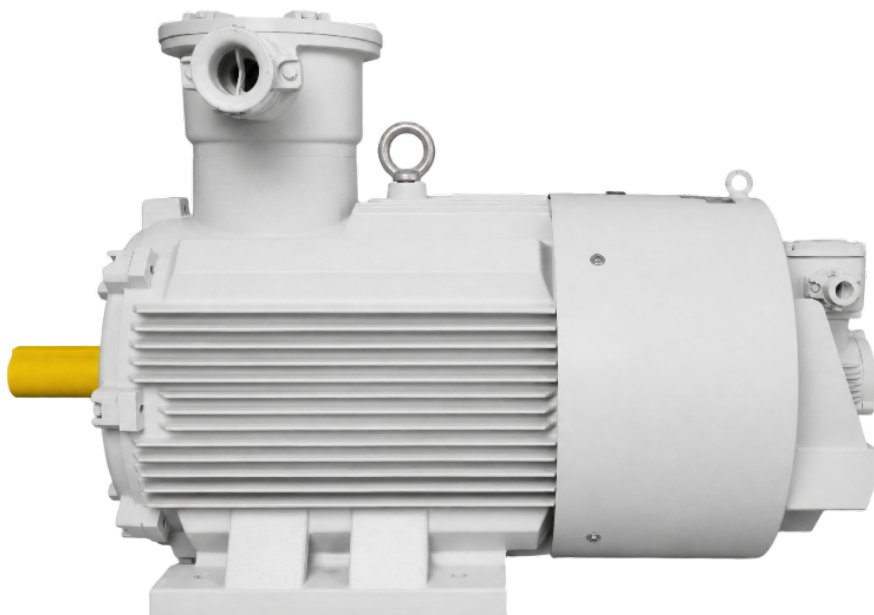


## EXPLOSION-PROTECTED SERIES

## YBBP

## YBBP SERIES FLAMEPROOF VARIABLE FREQUENCY SPEED CONTROL THREE-PHASE INDUCTION MOTOR

Totally enclosed flameproof induction motor for inverter-fed variable speed duty in mines.

**0.55–315** kW

RATED OUTPUT

**H80–H355**FRAME CENTRE  
HEIGHT**3–100** Hz

FREQUENCY RANGE

**Ex db I Mb**

MARKING

## SERIES

YBBP

## REVISION

A01

## ISSUE

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DESCRIPTION

The YBBP series is a totally enclosed flameproof variable-frequency induction motor. It is safe in use, compact, efficient and reliable, with low noise, low weight, and straightforward installation and maintenance.

TECHNICAL SPECIFICATION

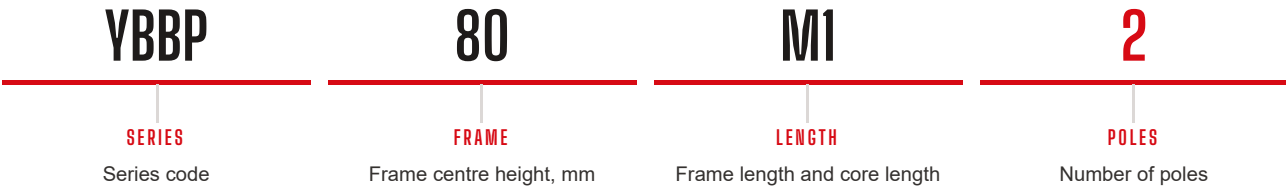
|                              |                                                        |
|------------------------------|--------------------------------------------------------|
| Explosion-protection marking | Ex db I Mb (mining)                                    |
| Constant torque range        | 3 to 50 Hz                                             |
| Constant power range         | 50 to 100 Hz (50 to 60 Hz on some ratings)             |
| Poles                        | 2, 4, 6, 8 and 10                                      |
| Altitude                     | Not exceeding 1,000 m (3,280 ft)                       |
| Ambient temperature          | -15 °C to +40 °C (5 °F to 104 °F)                      |
| Duty type                    | S1, continuous duty                                    |
| Mounting arrangements        | IM B3 (foot), IM B5 (flange), IM B35 (foot and flange) |

STANDARDS

|                   |                                                                                                                  |
|-------------------|------------------------------------------------------------------------------------------------------------------|
| GB/T 3836.1-2021  | Explosive atmospheres — Part 1: equipment, general requirements                                                  |
| GB/T 3836.2-2021  | Explosive atmospheres — Part 2: equipment protected by flameproof enclosure “d”                                  |
| JB/T 11201.1-2011 | Flameproof variable frequency speed control three-phase induction motors — Part 1: YBBP series, frames 80 to 355 |

MODEL DESIGNATION

The type designation is formed as follows, shown for **YBBP-80M1-2**.



## TYPICAL APPLICATIONS

■ Coal mines      ■ Mine ventilation      ■ Conveyors      ■ Pumps

## RATED DATA

Values are for 50 Hz operation at the rated voltage stated above. Ratings are continuous (duty type S1).

2 POLES — SYNCHRONOUS SPEED 3000 R/MIN, 50 HZ

| TYPE         | RATED OUTPUT<br>kW | EFFICIENCY<br>% | POWER FACTOR<br>COS φ | RATED CURRENT<br>A |
|--------------|--------------------|-----------------|-----------------------|--------------------|
| YBBP-80M1-2  | 0.75/1             | 75              | 0.83                  | 1.83               |
| YBBP-80M2-2  | 1.1/1.5            | 78              | 0.84                  | 2.55               |
| YBBP-90S-2   | 1.5/2              | 79              | 0.84                  | 3.43               |
| YBBP-90L-2   | 2.2/3              | 81              | 0.85                  | 4.85               |
| YBBP-100L-2  | 3/4                | 83              | 0.88                  | 6.24               |
| YBBP-112M-2  | 4/5.5              | 85              | 0.88                  | 8.13               |
| YBBP-132S1-2 | 5.5/7.5            | 86              | 0.88                  | 11.04              |
| YBBP-132S2-2 | 7.5/10             | 87              | 0.88                  | 14.88              |
| YBBP-160M1-2 | 11/15              | 88.4            | 0.88                  | 21.48              |
| YBBP-160M2-2 | 15/20              | 89.4            | 0.89                  | 28.64              |
| YBBP-160L-2  | 18.5/25            | 90              | 0.89                  | 35.09              |
| YBBP-180M-2  | 22/30              | 90.5            | 0.9                   | 41.04              |
| YBBP-200L1-2 | 30/40              | 91.4            | 0.9                   | 55.41              |
| YBBP-200L2-2 | 37/50              | 92              | 0.9                   | 67.9               |
| YBBP-225M-2  | 45/60              | 92.5            | 0.9                   | 82.13              |
| YBBP-250M-2  | 55/75              | 93              | 0.9                   | 99.84              |
| YBBP-280S-2  | 75/100             | 93.6            | 0.91                  | 133.79             |
| YBBP-280M-2  | 90/125             | 93.9            | 0.91                  | 160.03             |
| YBBP-315S-2  | 110/150            | 94              | 0.91                  | 195.39             |
| YBBP-315M-2  | 132/180            | 94.5            | 0.91                  | 233.22             |
| YBBP-315L1-2 | 160/200            | 94.6            | 0.91                  | 282.39             |
| YBBP-315L2-2 | 200/270            | 94.8            | 0.91                  | 352.25             |
| YBBP-355S1-2 | 185/250            | 94.6            | 0.91                  | 326.52             |
| YBBP-355S2-2 | 200/270            | 94.8            | 0.91                  | 352.25             |
| YBBP-355M1-2 | 220/295            | 94.9            | 0.91                  | 387.47             |
| YBBP-355M2-2 | 250/340            | 95.2            | 0.91                  | 438.46             |
| YBBP-355L1-2 | 280/375            | 95.2            | 0.91                  | 491.08             |
| YBBP-355L2-2 | 315/430            | 95.4            | 0.91                  | 551.3              |

## 4 POLES — SYNCHRONOUS SPEED 1500 R/MIN, 50 HZ

| TYPE         | RATED OUTPUT<br>kW | EFFICIENCY<br>% | POWER FACTOR<br>COS $\varphi$ | RATED CURRENT<br>A |
|--------------|--------------------|-----------------|-------------------------------|--------------------|
| YBBP-80M1-4  | 0.55/0.75          | 71              | 0.75                          | 1.57               |
| YBBP-80M2-4  | 0.75/1             | 73              | 0.77                          | 2.03               |
| YBBP-90S-4   | 1.1/1.5            | 76.2            | 0.77                          | 2.85               |
| YBBP-90L-4   | 1.5/2              | 78.5            | 0.79                          | 3.68               |
| YBBP-100L1-4 | 2.2/3              | 81              | 0.81                          | 5.09               |
| YBBP-100L2-4 | 3/4                | 82.6            | 0.82                          | 6.37               |
| YBBP-112M-4  | 4/5.5              | 84.2            | 0.82                          | 8.8                |
| YBBP-132S-4  | 5.5/7.5            | 86              | 0.84                          | 11.57              |
| YBBP-132M-4  | 7.5/10             | 87              | 0.85                          | 15.41              |
| YBBP-160M-4  | 11/15              | 88.4            | 0.85                          | 22.24              |
| YBBP-160L-4  | 15/20              | 89.4            | 0.85                          | 29.99              |
| YBBP-180M-4  | 18.5/25            | 90.5            | 0.85                          | 36.54              |
| YBBP-180L-4  | 22/30              | 91.2            | 0.85                          | 43.12              |
| YBBP-200L-4  | 30/40              | 92              | 0.86                          | 57.61              |
| YBBP-225S-4  | 37/50              | 92.5            | 0.87                          | 69.86              |
| YBBP-225M-4  | 45/60              | 92.8            | 0.87                          | 84.69              |
| YBBP-250M-4  | 55/75              | 93              | 0.87                          | 103.28             |
| YBBP-280S-4  | 75/100             | 93.8            | 0.87                          | 139.64             |
| YBBP-280M-4  | 90/125             | 94.2            | 0.87                          | 166.86             |
| YBBP-315S-4  | 110/150            | 94.5            | 0.88                          | 200.98             |
| YBBP-315M-4  | 132/180            | 94.8            | 0.88                          | 240.41             |
| YBBP-315L1-4 | 160/200            | 94.9            | 0.89                          | 287.83             |
| YBBP-315L-4  | 185/250            | 94.9            | 0.89                          | 332.8              |
| YBBP-315L2-4 | 200/270            | 94.9            | 0.89                          | 359.78             |
| YBBP-355S1-4 | 185/250            | 94.9            | 0.89                          | 332.8              |
| YBBP-355S2-4 | 200/270            | 94.9            | 0.89                          | 359.78             |
| YBBP-355M1-4 | 220/295            | 94.9            | 0.89                          | 395.76             |
| YBBP-355M2-4 | 250/340            | 95.2            | 0.9                           | 443.33             |
| YBBP-355L1-4 | 280/375            | 95.2            | 0.9                           | 496.53             |
| YBBP-355L2-4 | 315/430            | 95.4            | 0.9                           | 557.43             |

## 6 POLES — SYNCHRONOUS SPEED 1000 R/MIN, 50 HZ

| TYPE         | RATED OUTPUT<br>kW | EFFICIENCY<br>% | POWER FACTOR<br>cos φ | RATED CURRENT<br>A |
|--------------|--------------------|-----------------|-----------------------|--------------------|
| YBBP-80M1-6  | 0.37/0.5           | 63              | 0.7                   | 1.27               |
| YBBP-80M2-6  | 0.55/0.75          | 66              | 0.72                  | 1.76               |
| YBBP-90S-6   | 0.75/1             | 69              | 0.72                  | 2.29               |
| YBBP-90L-6   | 1.1/1.5            | 73              | 0.73                  | 3.14               |
| YBBP-100L-6  | 1.5/2              | 76              | 0.76                  | 3.95               |
| YBBP-112M-6  | 2.2/3              | 79              | 0.76                  | 5.57               |
| YBBP-132S-6  | 3/4                | 81              | 0.77                  | 7.31               |
| YBBP-132M1-6 | 4/5.5              | 83              | 0.78                  | 9.39               |
| YBBP-132M2-6 | 5.5/7.5            | 85              | 0.78                  | 12.6               |
| YBBP-160M-6  | 7.5/10             | 86              | 0.79                  | 16.77              |
| YBBP-160L-6  | 11/15              | 87.5            | 0.79                  | 24.18              |
| YBBP-180L-6  | 15/20              | 89              | 0.81                  | 31.61              |
| YBBP-200L1-6 | 18.5/25            | 90              | 0.83                  | 37.63              |
| YBBP-200L2-6 | 22/30              | 90              | 0.83                  | 44.75              |
| YBBP-225M-6  | 30/40              | 92              | 0.86                  | 57.61              |
| YBBP-250M-6  | 37/50              | 92              | 0.86                  | 71.05              |
| YBBP-280S-6  | 45/60              | 92.5            | 0.86                  | 85.95              |
| YBBP-280M-6  | 55/75              | 92.8            | 0.86                  | 104.71             |
| YBBP-315S-6  | 75/100             | 93.5            | 0.86                  | 141.72             |
| YBBP-315M-6  | 90/125             | 93.8            | 0.86                  | 169.52             |
| YBBP-315L1-6 | 110/150            | 94              | 0.86                  | 206.74             |
| YBBP-315L2-6 | 132/180            | 94.2            | 0.87                  | 244.72             |
| YBBP-355S-6  | 160/200            | 94.2            | 0.88                  | 293.26             |
| YBBP-355M1-6 | 185/250            | 94.2            | 0.88                  | 339.08             |
| YBBP-355M2-6 | 200/270            | 94.5            | 0.88                  | 365.41             |
| YBBP-355L1-6 | 220/295            | 94.5            | 0.88                  | 401.95             |
| YBBP-355L2-6 | 250/340            | 94.5            | 0.88                  | 456.77             |

## 8 POLES — SYNCHRONOUS SPEED 750 R/MIN, 50 HZ

| TYPE         | RATED OUTPUT<br>kW | EFFICIENCY<br>% | POWER FACTOR<br>cos φ | RATED CURRENT<br>A |
|--------------|--------------------|-----------------|-----------------------|--------------------|
| YBBP-90L-8   | 0.55/0.75          | 64              | 0.63                  | 2.07               |
| YBBP-100L1-8 | 0.75/1             | 71              | 0.68                  | 2.36               |
| YBBP-100L2-8 | 1.1/1.5            | 73              | 0.69                  | 3.32               |
| YBBP-112M-8  | 1.5/2              | 75              | 0.69                  | 4.4                |
| YBBP-132S-8  | 2.2/3              | 79              | 0.73                  | 5.8                |
| YBBP-132M-8  | 3/4                | 81              | 0.73                  | 7.71               |

## 8 POLES — SYNCHRONOUS SPEED 750 R/MIN, 50 HZ (CONTINUED)

| TYPE         | RATED OUTPUT<br>kW | EFFICIENCY<br>% | POWER FACTOR<br>COS $\varphi$ | RATED CURRENT<br>A |
|--------------|--------------------|-----------------|-------------------------------|--------------------|
| YBBP-160M1-8 | 4/5.5              | 81              | 0.73                          | 10.28              |
| YBBP-160M2-8 | 5.5/7.5            | 83              | 0.75                          | 13.42              |
| YBBP-160L-8  | 7.5/10             | 85              | 0.76                          | 17.64              |
| YBBP-180L-8  | 11/15              | 87              | 0.76                          | 25.28              |
| YBBP-200L-8  | 15/20              | 89              | 0.76                          | 33.69              |
| YBBP-225S-8  | 18.5/25            | 90              | 0.78                          | 40.04              |
| YBBP-225M-8  | 22/30              | 90.5            | 0.78                          | 47.35              |
| YBBP-250M-8  | 30/40              | 91              | 0.79                          | 63.4               |
| YBBP-280S-8  | 37/50              | 91.5            | 0.79                          | 77.77              |
| YBBP-280M-8  | 45/60              | 92              | 0.79                          | 94.07              |
| YBBP-315S-8  | 55/75              | 92.8            | 0.81                          | 111.17             |
| YBBP-315M-8  | 75/100             | 93.5            | 0.81                          | 150.46             |
| YBBP-315L1-8 | 90/125             | 93.8            | 0.81                          | 179.98             |
| YBBP-315L2-8 | 110/150            | 94              | 0.82                          | 216.83             |
| YBBP-355S-8  | 132/180            | 94.2            | 0.82                          | 259.64             |
| YBBP-355M-8  | 160/200            | 94.2            | 0.82                          | 314.72             |
| YBBP-355L1-8 | 185/250            | 94.2            | 0.82                          | 363.89             |
| YBBP-355L2-8 | 200/270            | 94.5            | 0.82                          | 392.15             |

## 10 POLES — SYNCHRONOUS SPEED 600 R/MIN, 50 HZ

| TYPE          | RATED OUTPUT<br>kW | EFFICIENCY<br>% | POWER FACTOR<br>COS $\varphi$ | RATED CURRENT<br>A |
|---------------|--------------------|-----------------|-------------------------------|--------------------|
| YBBP-315S-10  | 45/60              | 91.5            | 0.75                          | 99.63              |
| YBBP-315M-10  | 55/75              | 92              | 0.75                          | 121.11             |
| YBBP-315L1-10 | 75/100             | 92.5            | 0.76                          | 162.1              |
| YBBP-315L2-10 | 90/125             | 93              | 0.77                          | 190.96             |
| YBBP-355S-10  | 90/125             | 93              | 0.77                          | 190.96             |
| YBBP-355M1-10 | 110/150            | 93.2            | 0.78                          | 229.91             |
| YBBP-355M2-10 | 132/180            | 93.5            | 0.78                          | 275                |
| YBBP-355L-10  | 160/200            | 93.5            | 0.78                          | 333.34             |
| YBBP-355L1-10 | 185/250            | 94.5            | 0.78                          | 381.34             |

## MOUNTING ARRANGEMENTS

The series is supplied in the following arrangements to IEC 60034-7. Letters on the drawings are the dimension symbols used in the outline and mounting dimension schedule.

### ABOUT THESE DRAWINGS

The drawings show a representative frame for each arrangement and are not to scale. Dimensions for a specific frame size are given in the outline and mounting dimension schedule.

## OUTLINE AND MOUNTING DIMENSIONS

The series is supplied in the IM B3 (foot), IM B5 (flange), IM B35 (foot and flange) mounting arrangements. The full outline and mounting dimension schedule for each frame — including flange details and tolerances — is issued on request and is not reproduced in this datasheet.

## MANUFACTURER

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Ratings and dimensions in this datasheet are taken from the LEADGO product brochure and are subject to change without prior notice as a result of continuous product development. Confirm the applicable data with the manufacturer before ordering or before modifying an existing installation.