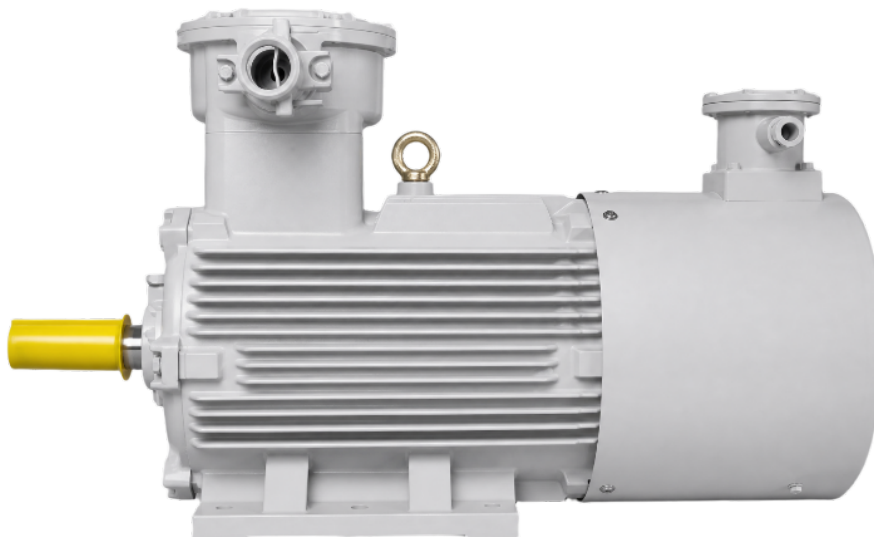


EXPLOSION-PROTECTED SERIES

YBBPX3

YBBPX3 SERIES HIGH EFFICIENCY FLAMEPROOF VARIABLE FREQUENCY SPEED CONTROL
THREE-PHASE INDUCTION MOTOR

Totally enclosed high-efficiency flameproof induction motor for inverter-fed variable speed duty, marked for both mining and plant use.

**0.55–315** kW

RATED OUTPUT

H80–H355FRAME CENTRE
HEIGHT**3–100** Hz

FREQUENCY RANGE

Ex db

TYPE OF PROTECTION

SERIES

YBBPX3

REVISION

A01

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DESCRIPTION

The YBBPX3 series is a totally enclosed, high-efficiency flameproof variable-frequency induction motor, carrying both the mining and the group IIB plant marking.

TECHNICAL SPECIFICATION

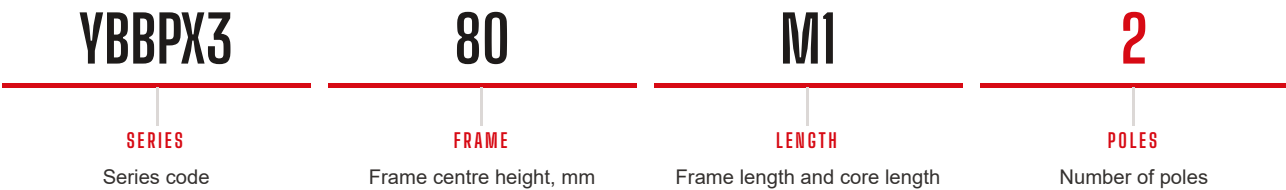
Explosion-protection marking	Ex db I Mb (mining); Ex db IIB T1 Gb to T4 Gb (plant)
Poles	2, 4, 6, 8 and 10
Altitude	Not exceeding 1,000 m (3,280 ft)
Ambient temperature	−15 °C to +40 °C (5 °F to 104 °F)
Duty type	S1, continuous duty
Mounting arrangements	IM B3 (foot), IM B5 (flange), IM B35 (foot and 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”

MODEL DESIGNATION

The type designation is formed as follows, shown for **YBBPX3-80M1-2**.



TYPICAL APPLICATIONS

- Coal mines (Ex db I Mb)
- Group IIB gas atmospheres in plant
- Petrochemical plant
- Chemical plant

NOTES

TABLE HEADING IN THE BROCHURE

The rating tables in the brochure are headed “Technical Data of YBBX3 Series”, one letter short of the product name. The ratings are those of the YBBPX3 series.

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 kW	EFFICIENCY %	POWER FACTOR cos φ	RATED CURRENT A
YBBPX3-80M1-2	0.75/1	75.0	0.83	1.83
YBBPX3-80M2-2	1.1/1.5	78.0	0.84	2.55
YBBPX3-90S-2	1.5/2	79.0	0.84	3.43
YBBPX3-90L-2	2.2/3	81.0	0.85	4.85
YBBPX3-100L-2	3/4	83.0	0.88	6.24
YBBPX3-112M-2	4/5.5	85.0	0.88	8.13
YBBPX3-132S1-2	5.5/7.5	86.0	0.88	11.04
YBBPX3-132S2-2	7.5/10	87.0	0.88	14.88
YBBPX3-160M1-2	11/15	88.4	0.88	21.48
YBBPX3-160M2-2	15/20	89.4	0.89	28.64
YBBPX3-160L-2	18.5/25	90.0	0.89	35.09
YBBPX3-180M-2	22/30	90.5	0.90	41.04
YBBPX3-200L1-2	30/40	91.4	0.90	55.41
YBBPX3-200L2-2	37/50	92.0	0.90	67.90
YBBPX3-225M-2	45/60	92.5	0.90	82.13
YBBPX3-250M-2	55/75	93.0	0.90	99.84
YBBPX3-280S-2	75/100	93.6	0.91	133.79
YBBPX3-280M-2	90/125	93.9	0.91	160.03
YBBPX3-315S-2	110/150	94.0	0.91	195.39
YBBPX3-315M-2	132/180	94.5	0.91	233.22
YBBPX3-315L1-2	160/200	94.6	0.91	282.39
YBBPX3-315L2-2	200/270	94.8	0.91	352.25
YBBPX3-355S1-2	185/250	94.6	0.91	326.52
YBBPX3-355S2-2	200/270	94.8	0.91	352.25
YBBPX3-355M1-2	220/295	94.8	0.91	387.47
YBBPX3-355M2-2	250/340	95.2	0.91	438.46

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

TYPE	RATED OUTPUT kW	EFFICIENCY %	POWER FACTOR COS φ	RATED CURRENT A
YBBPX3-355L1-2	280/375	95.2	0.91	491.08
YBBPX3-355L2-2	315/430	95.4	0.91	551.30

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

TYPE	RATED OUTPUT kW	EFFICIENCY %	POWER FACTOR COS φ	RATED CURRENT A
YBBPX3-80M1-4	0.55/0.75	71.0	0.75	1.57
YBBPX3-80M2-4	0.75/1	73.0	0.77	2.03
YBBPX3-90S-4	1.1/1.5	76.2	0.77	2.85
YBBPX3-90L-4	1.5/2	78.5	0.79	3.68
YBBPX3-100L1-4	2.2/3	81.0	0.81	5.09
YBBPX3-100L2-4	3/4	82.6	0.82	6.37
YBBPX3-112M-4	4/5.5	84.2	0.82	8.80
YBBPX3-132S-4	5.5/7.5	86.0	0.84	11.57
YBBPX3-132M-4	7.5/10	87.0	0.85	15.41
YBBPX3-160M-4	11/15	88.4	0.85	22.24
YBBPX3-160L-4	15/20	89.4	0.85	29.99
YBBPX3-180M-4	18.5/25	90.5	0.85	36.54
YBBPX3-180L-4	22/30	91.2	0.85	43.12
YBBPX3-200L-4	30/40	92.0	0.86	57.61
YBBPX3-225S-4	37/50	92.5	0.87	69.86
YBBPX3-225M-4	45/60	92.8	0.87	84.69
YBBPX3-250M-4	55/75	93.0	0.87	103.28
YBBPX3-280S-4	75/100	93.8	0.87	139.64
YBBPX3-280M-4	90/125	94.2	0.87	166.86
YBBPX3-315S-4	110/150	94.5	0.88	200.98
YBBPX3-315M-4	132/180	94.8	0.88	240.41
YBBPX3-315L1-4	160/200	94.9	0.89	287.83
YBBPX3-315L-4	185/250	94.9	0.89	332.80
YBBPX3-315L2-4	200/270	94.9	0.89	359.78
YBBPX3-355S1-4	185/250	94.9	0.89	332.80
YBBPX3-355S2-4	200/270	94.9	0.89	359.78
YBBPX3-355M1-4	220/295	95.2	0.90	395.76
YBBPX3-355M2-4	250/340	95.2	0.90	443.33
YBBPX3-355L1-4	280/375	95.2	0.90	496.53
YBBPX3-355L2-4	315/430	95.4	0.90	557.43

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

TYPE	RATED OUTPUT kW	EFFICIENCY %	POWER FACTOR COS φ	RATED CURRENT A
YBBPX3-80M1-6	0.37/0.5	63.0	0.70	1.27
YBBPX3-80M2-6	0.55/0.75	66.0	0.72	1.76
YBBPX3-90S-6	0.75/1	69.0	0.72	2.29
YBBPX3-90L-6	1.1/1.5	73.0	0.73	3.14
YBBPX3-100L-6	1.5/2	76.0	0.76	3.95
YBBPX3-112M-6	2.2/3	79.0	0.76	5.57
YBBPX3-132S-6	3/4	81.0	0.77	7.31
YBBPX3-132M1-6	4/5.5	83.0	0.78	9.39
YBBPX3-132M2-6	5.5/7.5	85.0	0.78	12.60
YBBPX3-160M-6	7.5/10	86.0	0.79	16.77
YBBPX3-160L-6	11/15	87.5	0.79	24.18
YBBPX3-180L-6	15/20	89.0	0.81	31.61
YBBPX3-200L1-6	18.5/25	90.0	0.83	37.63
YBBPX3-200L2-6	22/30	90.0	0.83	44.75
YBBPX3-225M-6	30/40	92.0	0.86	57.61
YBBPX3-250M-6	37/50	92.0	0.86	71.05
YBBPX3-280S-6	45/60	92.5	0.86	85.95
YBBPX3-280M-6	55/75	92.8	0.86	104.71
YBBPX3-315S-6	75/100	93.5	0.86	141.72
YBBPX3-315M-6	90/125	93.8	0.86	169.52
YBBPX3-315L1-6	110/150	94.0	0.87	206.74
YBBPX3-315L2-6	132/180	94.2	0.87	244.72
YBBPX3-355S-6	160/200	94.2	0.88	293.26
YBBPX3-355M1-6	185/250	94.2	0.88	339.08
YBBPX3-355M2-6	200/270	94.5	0.88	365.41
YBBPX3-355L1-6	220/295	94.5	0.88	401.95
YBBPX3-355L2-6	250/340	94.5	0.88	456.77

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

TYPE	RATED OUTPUT kW	EFFICIENCY %	POWER FACTOR COS φ	RATED CURRENT A
YBBPX3-160M2-8	5.5/7.5	83.0	0.75	13.42
YBBPX3-160L-8	7.5/10	85.0	0.76	17.64
YBBPX3-180L-8	11/15	87.0	0.76	25.28
YBBPX3-200L-8	15/20	89.0	0.76	33.69
YBBPX3-225S-8	18.5/25	90.0	0.78	40.04
YBBPX3-225M-8	22/30	90.5	0.78	47.35

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

TYPE	RATED OUTPUT kW	EFFICIENCY %	POWER FACTOR COS ϕ	RATED CURRENT A
YBBPX3-250M-8	30/40	91.0	0.79	63.40
YBBPX3-280S-8	37/50	91.5	0.79	77.77
YBBPX3-280M-8	45/60	92.0	0.79	94.07
YBBPX3-315S-8	55/75	92.8	0.81	111.17
YBBPX3-315M-8	75/100	93.5	0.81	150.46
YBBPX3-315L1-8	90/125	93.8	0.81	179.98
YBBPX3-315L2-8	110/150	94.0	0.82	216.83
YBBPX3-355S-8	132/180	94.2	0.82	259.64
YBBPX3-355M-8	160/200	94.2	0.82	314.72
YBBPX3-355L1-8	185/250	94.2	0.82	363.89
YBBPX3-355L2-8	200/270	94.5	0.82	392.15

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

TYPE	RATED OUTPUT kW	EFFICIENCY %	POWER FACTOR COS ϕ	RATED CURRENT A
YBBPX3-315S-10	45/60	91.5	0.75	99.63
YBBPX3-315M-10	55/75	92.0	0.75	121.11
YBBPX3-315L1-10	75/100	92.5	0.76	162.10
YBBPX3-315L2-10	90/125	93.0	0.77	190.96
YBBPX3-355S-10	90/125	93.0	0.77	190.96
YBBPX3-355M1-10	110/150	93.2	0.78	229.91
YBBPX3-355M2-10	132/180	93.5	0.78	275.00
YBBPX3-355L-10	160/200	93.5	0.78	333.34
YBBPX3-355L1-10	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

Principal dimensions are given below. The complete dimension schedule, including tolerances and flange details, is issued on request.

PRINCIPAL OUTLINE AND MOUNTING DIMENSIONS (MM)

FRAME	POLES	LENGTH L, TYPICAL mm
80M	2, 4, 6, 8	437
90S/90L	all pole numbers	365/390
100L	2, 4, 6, 8	549
112M	2, 4, 6, 8	606
132S/132M	2, 4, 6, 8	619/659
160M/160L	2, 4, 6, 8	804/834
180M/180L	2, 4, 6, 8	905/925
200L	2, 4, 6, 8	965
225S/225M	4, 8/2; 4, 6, 8	990/990/1015
250M	2/4, 6, 8	1066/1210
280S/280M	2/4, 6, 8	1265/1475
315S/315M/315L	2/4, 6, 8, 10	1475~1630
355S/355M/355L	2/4, 6, 8, 10	1475~1915

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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.