

IEC STANDARD SERIES

YVP

YVP SERIES VARIABLE-FREQUENCY THREE-PHASE INDUCTION MOTOR

Induction motor designed for converter supply, with a separately driven cooling fan so that cooling is maintained across the whole speed range.



0.55–560 kW

RATED OUTPUT

H80–H400

FRAME CENTRE
HEIGHT

5–100 Hz

FREQUENCY RANGE

IC416

METHOD OF COOLING

SERIES

YVP

REVISION

A01

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DESCRIPTION

The YE-family frame is specially redesigned for use with an induction-motor frequency converter, giving stepless AC speed control. The series is available with or without an encoder; with an encoder fitted, starting is smoother and control more precise.

The motor runs at constant torque over 5–50 Hz and at constant power over 50–100 Hz, with steady running and low torque ripple. A separately driven cooling unit is fitted so that cooling remains effective at every speed — the reason this series can hold rated torque down to low frequency where a shaft-mounted fan cannot.

The series suits any application calling for stepless speed control and can replace motors of the YCT series, with higher efficiency and better control accuracy.

TECHNICAL SPECIFICATION

Frame centre height	H80–H400 mm
Rated output power	0.55 kW–560 kW
Rated voltage and frequency	380 V, 50 Hz
Degree of protection	IP54 · IP55
Thermal class	155 (F)
Method of cooling	IC416
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)

MODEL DESIGNATION

The designation is formed in accordance with **JB/T 11818—2014 *Designation Method for Electric Machine Products***. For a small induction motor the specification code is composed of **frame centre height · frame length · core length · number of poles**.

YVP	160	M	1	2
PRODUCT CODE	CENTRE HEIGHT	FRAME LENGTH	CORE LENGTH	POLES
Series identification	Frame centre height in mm	S = short frame M = medium frame L = long frame	No. 1, 2, 3 ... in order from shortest to longest	Number of poles

YVP160M1-2 = YVP series converter-fed induction motor, frame centre height 160 mm, medium frame, No. 1 core length, 2 poles. From frame 400 upwards the designation is written with a hyphen after the product code, for example YVP-400M1-4.

READING A DESIGNATION

Where a frame is built in a single core length the digit is not printed. The remaining fields keep the order given above.

TYPICAL APPLICATIONS

- Fans

■ Paper machinery
- Water pumps

■ Rubber machinery
- Hydraulic power units
- Plastics machinery

NOTES

SPEED RANGE

Constant torque 5–50 Hz; constant power 50–100 Hz.

COOLING

Separately driven fan unit (IC416), so cooling does not fall away at low speed.

ENCODER

Available with or without an encoder. Specify at order.

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	RATED CURRENT A	RATED TORQUE N·m
YVP80M1-2	0.75	1.8	2.4
YVP80M2-2	1.1	2.5	3.5
YVP90S-2	1.5	3.4	4.8
YVP90L-2	2.2	4.8	7.0
YVP100L-2	3	6.3	9.6
YVP112M-2	4	8.2	12.7
YVP132S1-2	5.5	11.1	17.5
YVP132S2-2	7.5	14.8	23.9
YVP160M1-2	11	21.2	35.0
YVP160M2-2	15	28.6	47.8
YVP160L-2	18.5	34.7	58.9
YVP180M-2	22	41.0	70.0
YVP200L1-2	30	55.4	95.5
YVP200L2-2	37	67.8	118
YVP225M-2	45	82.1	143
YVP250M-2	55	99.8	175
YVP280S-2	75	135	239
YVP280M-2	90	160	287
YVP315S-2	110	195	350
YVP315M-2	132	233	420
YVP315L1-2	160	279	509
YVP315L2-2	200	348	637
YVP355M1-2	220	382	700
YVP355M-2	250	433	796
YVP355L1-2	280	484	891
YVP355L-2	315	545	1003

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

TYPE	RATED OUTPUT kW	RATED CURRENT A	RATED TORQUE N·m
YVP80M1-4	0.55	1.5	3.5
YVP80M2-4	0.75	2.0	4.8
YVP90S-4	1.1	2.9	7.0
YVP90L-4	1.5	3.7	9.6
YVP100L1-4	2.2	5.0	14.0
YVP100L2-4	3	6.7	19.1
YVP112M-4	4	8.8	25.5

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

TYPE	RATED OUTPUT kW	RATED CURRENT A	RATED TORQUE N·m
YVP132S-4	5.5	11.7	35.0
YVP132M-4	7.5	15.4	47.8
YVP160M-4	11	22.5	70.0
YVP160L-4	15	30.0	95.5
YVP180M-4	18.5	36.3	118
YVP180L-4	22	42.9	140
YVP200L-4	30	57.9	191
YVP225S-4	37	70.6	236
YVP225M-4	45	84.9	287
YVP250M-4	55	103	350
YVP280S-4	75	140	478
YVP280M-4	90	167	573
YVP315S-4	110	201	700
YVP315M-4	132	240	840
YVP315L1-4	160	287	1019
YVP315L2-4	200	359	1273
YVP355M1-4	220	390	1401
YVP355M-4	250	443	1592
YVP355L1-4	280	496	1783
YVP355L-4	315	558	2006
YVP-400M1-4	355	630	2260.2
YVP-400M2-4	400	710	2546.7
YVP-400M3-4	450	799	2865
YVP-400L1-4	500	888	3183.3
YVP-400L2-4	560	994	3565.3

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

TYPE	RATED OUTPUT kW	RATED CURRENT A	RATED TORQUE N·m
YVP90S-6	0.75	2.3	7.2
YVP90L-6	1.1	3.1	10.5
YVP100L-6	1.5	4.0	14.3
YVP112M-6	2.2	5.5	21.0
YVP132S-6	3	7.4	28.7
YVP132M1-6	4	9.7	38.2
YVP132M2-6	5.5	12.9	52.5
YVP160M-6	7.5	17.2	71.6

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

TYPE	RATED OUTPUT kW	RATED CURRENT A	RATED TORQUE N·m
YVP160L-6	11	24.4	105
YVP180L-6	15	31.6	143
YVP200L1-6	18.5	38.5	177
YVP200L2-6	22	44.7	210
YVP225M-6	30	59.3	287
YVP250M-6	37	71.0	353
YVP280S-6	45	85.9	430
YVP280M-6	55	104	525
YVP315S-6	75	141	716
YVP315M-6	90	169	860
YVP315L1-6	110	206	1051
YVP315L2-6	132	244	1261
YVP355M1-6	160	292	1528
YVP355M-6	185	338	1767
YVP355M2-6	200	365	1910
YVP355L1-6	220	402	2101
YVP355L-6	250	456	2388
YVP355L2-6	280	511	2674
YVP-400M1-6	280	521	2674
YVP-400M2-6	315	687	3008.3
YVP-400M3-6	355	660	3390.3
YVP-400L1-6	400	744	3820
YVP-400L2-6	450	837	4297.5
YVP-400L3-6	500	930	4775

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

TYPE	RATED OUTPUT kW	RATED CURRENT A	RATED TORQUE N·m
YVP132S-8	2.2	6.0	28.0
YVP132M-8	3	7.9	38.2
YVP160M1-8	4	10.2	50.9
YVP160M2-8	5.5	13.6	70.0
YVP160L-8	7.5	17.7	95.5
YVP180L-8	11	25.1	140
YVP200L-8	15	34.0	191
YVP225S-8	18.5	41.0	236
YVP225M-8	22	47.3	280

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

TYPE	RATED OUTPUT kW	RATED CURRENT A	RATED TORQUE N·m
YVP250M-8	30	63.4	382
YVP280S-8	37	77.7	471
YVP280M-8	45	94.0	573
YVP315S-8	55	111	700
YVP315M-8	75	151	955
YVP315L1-8	90	177	1146
YVP315L2-8	110	216	1401
YVP355M1-8	132	261	1681
YVP355M2-8	160	314	2037
YVP355L1-8	185	359	2356
YVP355L-8	200	387	2547
YVP-400M1-8	250	489	3183.3
YVP-400M2-8	280	548	3565.3
YVP-400L1-8	315	617	4011
YVP-400L2-8	355	695	4520.3
YVP-400L3-8	400	783	5093.3

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

TYPE	RATED OUTPUT kW	RATED CURRENT A	RATED TORQUE N·m
YVP315S-10	45	99.6	716
YVP315M-10	55	121	875
YVP315L1-10	75	162	1194
YVP315L2-10	90	190	1433
YVP355M1-10	110	229	1751
YVP355M2-10	132	275	2101
YVP355L-10	160	333	2547
YVP-400M1-10	185	385	2944.6
YVP-400M2-10	200	416	3183.3
YVP-400L1-10	250	520	3979.2
YVP-400L2-10	280	583	4456.7
YVP-400L3-10	315	656	5013.8

BEARINGS

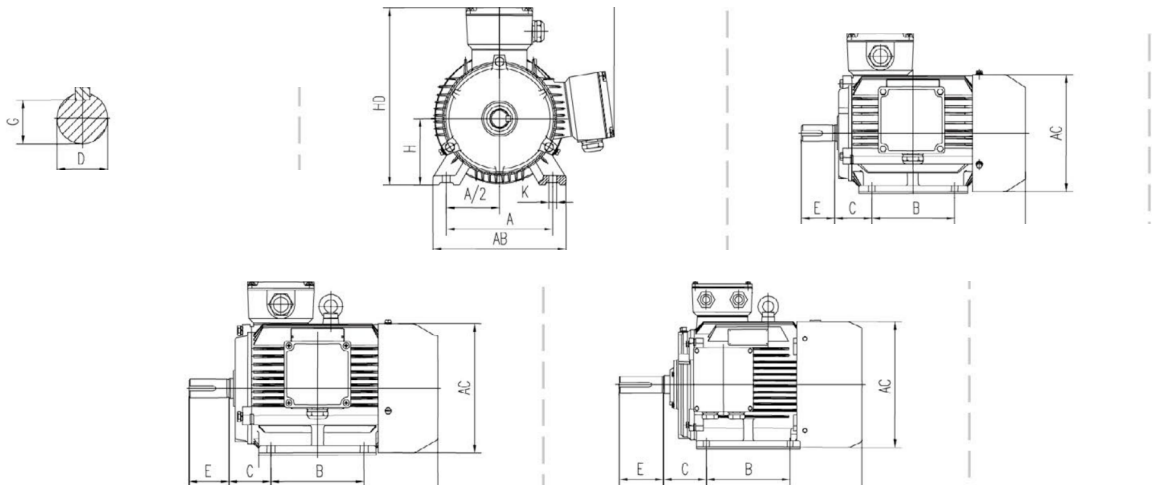
BEARING SPECIFICATION BY FRAME

FRAME	POLES	DRIVE-END BEARING	NON-DRIVE-END BEARING
80	2.4.6	6204-2RZ/Z1	6204-2RZ/Z1
90	2.4.6	6205-2RZ/Z1	6205-2RZ/Z1
100	2.4.6	6206-2RZ/Z1	6206-2RZ/Z1
112	2.4.6	6206-2RZ/Z1	6206-2RZ/Z1
132	2.4.6.8	6208-2RZ/Z1	6208-2RZ/Z1
160	2 / 4.6.8	6209C3 / 6309C3	6209C3
180	2 / 4.6.8	6211C3 / 6311C3	6211C3
200	2 / 4.6.8	6212C3 / 6312C3	6212C3
225	2 / 4.6.8	6312C3 / 6313C3	6312C3
250	2 / 4.6.8	6313C3 / 6314C3	6313C3
280	2 / 4.6.8	6314C3 / 6317C3	6314C3
315	2 / 4.6.8	6317C3 / N319C3	6317C3 / 6319C3
355	2 / 4.6.8	6319C3 / N322C3	6319C3 / 6322C3
400	2 / 4.6.8.10	6319C3 / N326C3	6319C3 / 6326C3

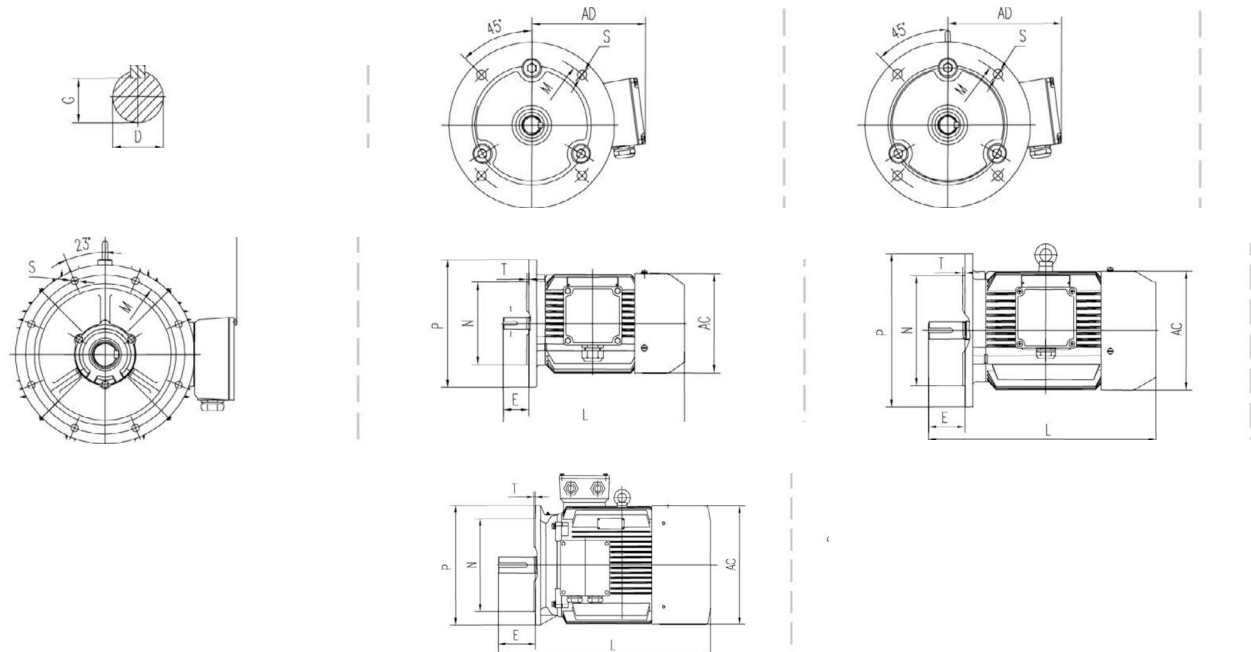
MOUNTING ARRANGEMENTS

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.

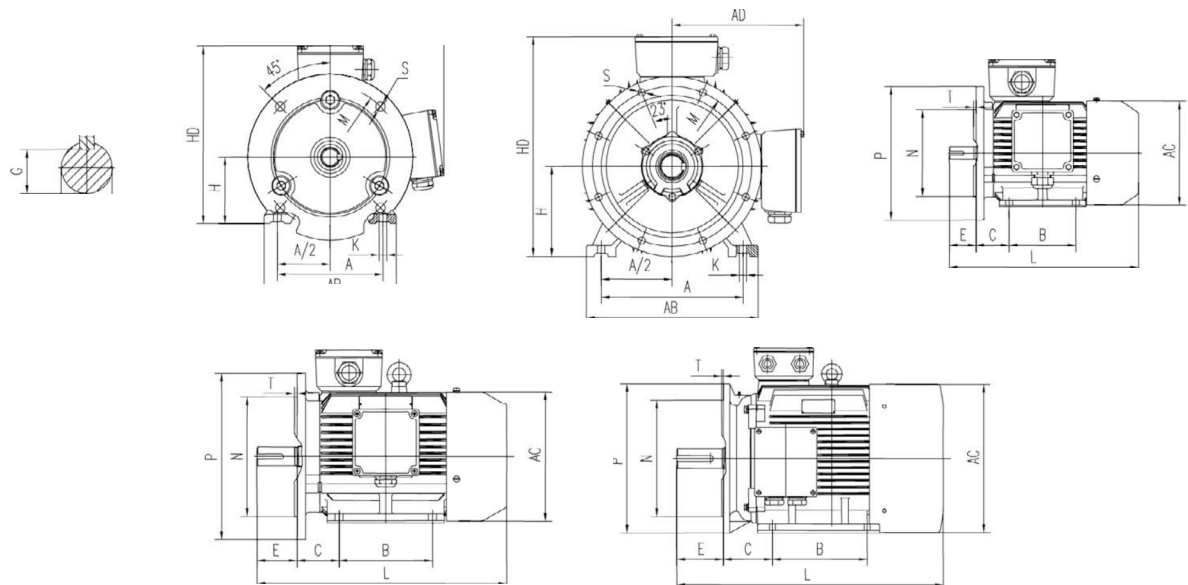
IM B3 FOOT MOUNTING



IM B5 FLANGE MOUNTING



IM B35 FOOT AND FLANGE MOUNTING



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.

COLUMNS NOT REPRODUCED

The brochure does not print “Constant power Hz”, “Constant torque Hz” as values grouped over bands of ratings rather than per type. Those figures are available on request and are omitted here rather than shown against the wrong rating.

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