

IEC STANDARD SERIES

YKK / YXKK

YKK / YXKK SERIES HIGH-VOLTAGE THREE-PHASE INDUCTION MOTOR

High-voltage squirrel-cage induction motor with an air-to-air cooler, in two efficiency levels and two voltage classes.

**185–3150** kW

RATED OUTPUT, 6 kV

H355–H630FRAME CENTRE
HEIGHT**6 / 10** kV

VOLTAGE CLASS

IP54/55DEGREE OF
PROTECTION

SERIES

YKK-YXKK

REVISION

A01

ISSUE

September 2026

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DESCRIPTION

YKK and YXKK are high-voltage squirrel-cage three-phase induction motors covering frames 355–630 at 6 kV and 400–630 at 10 kV. The two designations share one frame and numbering system and differ in efficiency level: **YKK** carries efficiency grade 3 and **YXKK** efficiency grade 2 of GB 30254.

The 6 kV range is built to JB/T 12730-2016 and the 10 kV range to JB/T 12729-2016. The motors are efficient, quiet and light, with low vibration, dependable performance and straightforward installation and servicing.

The structural and mounting arrangement is IM B3. Ratings are continuous ratings on the basis of continuous duty S1, at 50 Hz and 6 kV or 10 kV. Other voltage classes and special requirements can be agreed at the time of order.

TECHNICAL SPECIFICATION

6 kV RANGE

Frame centre height	H355–H630 mm
Rated output power	185 kW–3150 kW
Rated voltage and frequency	6000 V, 50 Hz
Degree of protection	IP54 · IP55
Method of cooling	IC611 · IC616

10 kV RANGE

Frame centre height	H400–H630 mm
Rated output power	220 kW–2500 kW
Rated voltage and frequency	10000 V, 50 Hz
Degree of protection	IP54 · IP55
Method of cooling	IC611 · IC616

BOTH VOLTAGE RANGES

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)

STANDARDS

JB/T 12730-2016	Technical specification — 6 kV range
JB/T 12729-2016	Technical specification — 10 kV range
GB 30254	Energy efficiency — grade 3 (YKK) and grade 2 (YXKK)

MODEL DESIGNATION

The designation is formed in accordance with **JB/T 11818—2014 *Designation Method for Electric Machine Products***. For a large or medium induction motor the specification code is composed of **frame centre height · core length · number of poles**, followed where applicable by a special-environment code.

YKK	400	1	4	W
PRODUCT CODE	CENTRE HEIGHT	CORE LENGTH	POLES	ENVIRONMENT
Series identification	Frame centre height in mm	No. 1, 2, 3 ... in order from shortest to longest	Number of poles	W = outdoor type (omitted for indoor)

YKK4001-4 W = YKK series high-voltage induction motor, frame centre height 400 mm, No. 1 core length, 4 poles, outdoor type. YXKK is designated identically and differs in efficiency grade.

READING A DESIGNATION

The special-environment code is appended only where the duty requires it. Where several apply they are ordered as set out in JB/T 11818—2014.

TYPICAL APPLICATIONS

■ Ventilating fans	■ Compressors	■ Water pumps	■ Crushers
■ Cutting machine tools	■ Coal mines	■ Power plants	■ General industrial plant

NOTES

BELT DRIVE

Belt drive is not permitted on 2-pole and 4-pole motors. For other pole numbers, agree belt drive with the manufacturer before ordering.

TEMPERATURE DETECTORS

Eight PT100 detectors are fitted as standard. Anti-condensation heaters are a customer option.

BEARINGS

2-pole motors in frames 500–630 use end-shield sleeve bearings.

RATED DATA

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

6 KV RANGE (FRAMES 355–630)

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

TYPE	RATED OUTPUT kW	RATED CURRENT YKK A	RATED CURRENT YXKK A	EFFICIENCY YKK %	EFFICIENCY YXKK %	POWER FACTOR cos φ	SPEED r/min	APPROX. MASS kg
YKK/YXKK3553-2	220	27.2	26.7	91.7	93.1	0.85	2975	2150
YKK/YXKK3554-2	250	30.8	30.4	91.8	93.2	0.85	2975	2212
YKK/YXKK3555-2	280	34.5	33.9	92.0	93.4	0.85	2975	2250
YKK/YXKK3556-2	315	38.6	38.1	92.4	93.7	0.85	2975	2295
YKK/YXKK4001-2	355	42.8	42.3	92.7	93.9	0.86	2975	2460
YKK/YXKK4002-2	400	48.1	47.5	93.0	94.2	0.86	2975	2560
YKK/YXKK4003-2	450	53.9	53.3	93.3	94.4	0.86	2975	2660
YKK/YXKK4004-2	500	59.8	59.1	93.6	94.7	0.86	2975	2820
YKK/YXKK4005-2	560	66.8	66.0	93.8	94.9	0.86	2975	2900
YKK/YXKK4502-2	630	74.1	73.3	94.0	95.0	0.87	2975	2690
YKK/YXKK4503-2	710	83.4	82.6	94.1	95.1	0.87	2980	3780
YKK/YXKK4504-2	800	93.8	92.8	94.3	95.3	0.87	2980	3895
YKK/YXKK4505-2	900	105.3	104.2	94.5	95.5	0.87	2980	3990
YKK/YXKK5002-2	1000	116.9	115.8	94.6	95.5	0.87	2980	4523
YKK/YXKK5003-2	1120	130.8	129.6	94.7	95.6	0.87	2980	4780
YKK/YXKK5004-2	1250	145.7	144.3	94.9	95.8	0.87	2980	4980
YKK/YXKK5005-2	1400	161.1	159.6	95.0	95.9	0.88	2980	5120
YKK/YXKK5601-2	1600	183.9	182.2	95.1	96.0	0.88	2980	7080
YKK/YXKK5602-2	1800	206.7	205.0	95.2	96.0	0.88	2980	7310
YKK/YXKK5603-2	2000	229.2	227.3	95.4	96.2	0.88	2980	7395
YKK/YXKK6301-2	2100	240.7	238.7	95.4	96.2	0.88	2980	7530
YKK/YXKK6302-2	2240	256.4	254.3	95.5	96.3	0.88	2980	7830
YKK/YXKK6303-2	2350	269.1	266.8	95.5	96.3	0.88	2980	8630
YKK/YXKK6304-2	2500	285.9	283.5	95.6	96.4	0.88	2980	8710
YKK/YXKK6305-2	2650	303.1	300.6	95.6	96.4	0.88	2980	8890
YKK/YXKK6306-2	2800	320.3	317.6	95.6	96.4	0.88	2980	8950
YKK/YXKK6307-2	2900	331.7	328.9	95.6	96.4	0.88	2980	9120
YKK/YXKK6308-2	3150	359.9	356.9	95.7	96.5	0.88	2980	9220

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

TYPE	RATED OUTPUT kW	RATED CURRENT YKK A	RATED CURRENT YXKK A	EFFICIENCY YKK %	EFFICIENCY YXKK %	POWER FACTOR cos φ	SPEED r/min	APPROX. MASS kg
YKK/YXKK3551-4	185	22.8	22.4	91.9	93.3	0.85	1485	1750
YKK/YXKK3552-4	200	24.6	24.2	92.1	93.4	0.85	1485	1820
YKK/YXKK3553-4	220	27.0	26.6	92.2	93.5	0.85	1485	1849
YKK/YXKK3554-4	250	30.7	30.2	92.3	93.6	0.85	1485	1960
YKK/YXKK3555-4	280	34.3	33.8	92.4	93.7	0.85	1485	2050
YKK/YXKK3556-4	315	38.1	37.6	92.6	93.8	0.86	1485	2159
YKK/YXKK4001-4	355	42.8	42.3	92.8	94.0	0.86	1485	2360
YKK/YXKK4002-4	400	48.1	47.5	93.0	94.2	0.86	1485	2490
YKK/YXKK4003-4	450	54.0	53.3	93.2	94.4	0.86	1485	2550
YKK/YXKK4004-4	500	59.9	59.1	93.4	94.5	0.86	1485	2630
YKK/YXKK4005-4	560	66.9	66.2	93.6	94.7	0.86	1485	2710
YKK/YXKK4502-4	630	75.1	74.3	93.8	94.9	0.86	1485	3160
YKK/YXKK4503-4	710	84.5	83.6	94.0	95.0	0.86	1485	3240
YKK/YXKK4504-4	800	93.8	92.8	94.3	95.3	0.87	1485	3350
YKK/YXKK4505-4	900	105.4	104.3	94.4	95.4	0.87	1490	3455
YKK/YXKK5002-4	1000	117.0	115.8	94.5	95.5	0.87	1490	4440
YKK/YXKK5003-4	1120	130.9	129.7	94.6	95.5	0.87	1490	4510
YKK/YXKK5004-4	1250	144.2	142.8	94.8	95.7	0.88	1490	4600
YKK/YXKK5005-4	1400	161.3	159.8	94.9	95.8	0.88	1490	4680
YKK/YXKK5601-4	1600	184.2	182.4	95.0	95.9	0.88	1490	5800
YKK/YXKK5602-4	1800	207.0	205.0	95.1	96.0	0.88	1490	5890
YKK/YXKK5603-4	2000	229.5	227.6	95.3	96.1	0.88	1490	5920
YKK/YXKK6301-4	2100	241.0	238.9	95.3	96.1	0.88	1490	6005
YKK/YXKK6302-4	2240	256.7	254.6	95.4	96.2	0.88	1490	6450
YKK/YXKK6303-4	2350	269.4	267.1	95.4	96.2	0.88	1490	8190
YKK/YXKK6304-4	2500	286.2	283.9	95.5	96.3	0.88	1490	8210
YKK/YXKK6305-4	2650	303.1	300.9	95.6	96.3	0.88	1490	8296
YKK/YXKK6306-4	2800	320.3	317.9	95.6	96.3	0.88	1490	8365
YKK/YXKK6307-4	2900	331.7	329.3	95.6	96.3	0.88	1490	8413
YKK/YXKK6308-4	3150	359.5	356.9	95.8	96.5	0.88	1490	8496

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

TYPE	RATED OUTPUT kW	RATED CURRENT YKK A	RATED CURRENT YXKK A	EFFICIENCY YKK %	EFFICIENCY YXKK %	POWER FACTOR cos φ	SPEED r/min	APPROX. MASS kg
YKK/YXKK3553-6	185	23.7	23.3	91.5	93.0	0.82	985	1890
YKK/YXKK3554-6	200	25.6	25.2	91.8	93.1	0.82	985	1965
YKK/YXKK3555-6	220	28.1	27.7	92.0	93.3	0.82	985	2010
YKK/YXKK3556-6	250	31.8	31.4	92.2	93.5	0.82	985	2270
YKK/YXKK4002-6	280	35.5	35.0	92.5	93.8	0.82	985	2345
YKK/YXKK4003-6	315	39.8	39.3	92.8	94.0	0.82	985	2397
YKK/YXKK4004-6	355	44.3	43.7	93.0	94.2	0.83	985	2435
YKK/YXKK4005-6	400	49.8	49.2	93.1	94.3	0.83	985	2525
YKK/YXKK4502-6	450	55.9	55.2	93.4	94.5	0.83	985	3200
YKK/YXKK4503-6	500	61.9	61.1	93.7	94.8	0.83	985	3257
YKK/YXKK4504-6	560	68.4	67.6	93.8	94.9	0.84	985	3340
YKK/YXKK4505-6	630	76.9	76.0	93.9	95.0	0.84	985	3450
YKK/YXKK5002-6	710	86.3	85.4	94.2	95.2	0.84	985	4460
YKK/YXKK5003-6	800	97.1	96.1	94.4	95.4	0.84	990	4480
YKK/YXKK5004-6	900	107.8	106.7	94.5	95.5	0.85	990	4650
YKK/YXKK5005-6	1000	119.7	118.5	94.6	95.5	0.85	990	4740
YKK/YXKK5601-6	1120	133.9	132.6	94.7	95.6	0.85	990	6570
YKK/YXKK5602-6	1250	147.4	146.0	94.9	95.8	0.86	990	6740
YKK/YXKK5603-6	1400	164.9	163.3	95.0	95.9	0.86	990	7062
YKK/YXKK6304-6	1600	188.2	186.5	95.1	96.0	0.86	990	8435
YKK/YXKK6305-6	1800	211.6	209.8	95.2	96.0	0.86	990	8495
YKK/YXKK6306-6	2000	234.6	232.6	95.4	96.2	0.86	990	8725
YKK/YXKK6307-6	2100	246.3	244.2	95.4	96.2	0.86	990	8765
YKK/YXKK6308-6	2240	262.4	260.5	95.5	96.2	0.86	990	8895

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

TYPE	RATED OUTPUT kW	RATED CURRENT YKK A	RATED CURRENT YXKK A	EFFICIENCY YKK %	EFFICIENCY YXKK %	POWER FACTOR cos φ	SPEED r/min	APPROX. MASS kg
YKK/YXKK4001-8	185	24.9	24.5	91.6	93.0	0.78	740	2370
YKK/YXKK4002-8	200	26.8	26.5	91.9	93.2	0.78	740	2450
YKK/YXKK4003-8	220	29.5	29.1	92.1	93.4	0.78	740	2520
YKK/YXKK4004-8	250	33.0	32.6	92.2	93.5	0.79	740	2650
YKK/YXKK4005-8	280	36.9	36.4	92.4	93.7	0.79	740	2760
YKK/YXKK4502-8	315	41.4	40.9	92.7	93.9	0.79	740	3450
YKK/YXKK4503-8	355	46.6	46.0	92.8	94.0	0.79	740	3560
YKK/YXKK4504-8	400	51.7	51.1	93.0	94.2	0.80	740	3680
YKK/YXKK4505-8	450	58.1	57.4	93.1	94.3	0.80	740	3780

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

TYPE	RATED OUTPUT kW	RATED CURRENT YKK A	RATED CURRENT YXKK A	EFFICIENCY YKK %	EFFICIENCY YXKK %	POWER FACTOR cos φ	SPEED r/min	APPROX. MASS kg
YKK/YXKK5002-8	500	64.2	63.5	93.6	94.7	0.80	745	4480
YKK/YXKK5003-8	560	71.8	71.0	93.8	94.9	0.80	745	4520
YKK/YXKK5004-8	630	78.7	77.8	93.9	95.0	0.82	745	4650
YKK/YXKK5005-8	710	88.6	87.7	94.0	95.0	0.82	745	4780
YKK/YXKK5601-8	800	99.7	98.6	94.2	95.2	0.82	745	4896
YKK/YXKK5602-8	900	109.9	108.2	94.3	95.3	0.84	745	6193
YKK/YXKK5603-8	1000	121.3	120.0	94.4	95.4	0.84	745	6502
YKK/YXKK6304-8	1120	135.8	134.3	94.5	95.5	0.84	745	8251
YKK/YXKK6305-8	1250	151.2	149.8	94.7	95.6	0.84	745	8440
YKK/YXKK6306-8	1400	169.2	167.6	94.8	95.7	0.84	745	8550
YKK/YXKK6307-8	1600	193.1	191.3	94.9	95.8	0.84	745	8690
YKK/YXKK6308-8	1800	217.0	215.2	95.0	95.8	0.84	745	9010

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

TYPE	RATED OUTPUT kW	RATED CURRENT YKK A	RATED CURRENT YXKK A	EFFICIENCY YKK %	EFFICIENCY YXKK %	POWER FACTOR cos φ	SPEED r/min	APPROX. MASS kg
YKK/YXKK4004-10	185	26.1	25.7	90.8	92.4	0.75	590	2720
YKK/YXKK4005-10	200	28.2	27.7	91.1	92.6	0.75	590	2830
YKK/YXKK4501-10	220	30.9	30.4	91.3	92.7	0.75	590	2860
YKK/YXKK4502-10	250	35.0	34.5	91.5	92.9	0.75	590	2990
YKK/YXKK4503-10	280	39.2	38.6	91.7	93.1	0.75	590	3010
YKK/YXKK4504-10	315	43.3	42.7	92.1	93.4	0.76	590	3150
YKK/YXKK4505-10	355	48.7	48.0	92.3	93.6	0.76	590	3220
YKK/YXKK5001-10	400	54.7	54.0	92.6	93.8	0.76	590	4190
YKK/YXKK5002-10	450	61.5	60.7	92.7	93.9	0.76	590	4310
YKK/YXKK5003-10	500	66.3	65.5	93.0	94.2	0.78	590	4710
YKK/YXKK5004-10	560	74.2	73.3	93.1	94.3	0.78	590	4830
YKK/YXKK5005-10	630	83.4	82.3	93.2	94.4	0.78	595	4960
YKK/YXKK5601-10	710	93.8	92.7	93.4	94.5	0.78	595	6820
YKK/YXKK5602-10	800	102.7	101.5	93.7	94.8	0.80	595	6950
YKK/YXKK5603-10	900	115.4	114.1	93.8	94.9	0.80	595	8240
YKK/YXKK6304-10	1000	128.1	126.6	93.9	95.0	0.80	595	8450
YKK/YXKK6305-10	1120	143.2	141.7	94.1	95.1	0.80	595	8920
YKK/YXKK6306-10	1250	159.3	157.6	94.4	95.4	0.80	595	3180
YKK/YXKK6307-10	1400	178.2	176.3	94.5	95.5	0.80	595	3561
YKK/YXKK6308-10	1600	203.4	201.5	94.6	95.5	0.80	595	4070

12 POLES — SYNCHRONOUS SPEED 500 R/MIN, 50 HZ

TYPE	RATED OUTPUT kW	RATED CURRENT YKK A	RATED CURRENT YXKK A	EFFICIENCY YKK %	EFFICIENCY YXKK %	POWER FACTOR cos φ	SPEED r/min	APPROX. MASS kg
YKK/YXKK4502-12	185	28.0	27.5	90.9	92.5	0.70	490	3090
YKK/YXKK4503-12	200	30.1	29.7	91.2	92.6	0.70	490	3195
YKK/YXKK4504-12	220	32.2	31.7	91.4	92.8	0.72	490	3245
YKK/YXKK4505-12	250	36.4	35.9	91.7	93.1	0.72	490	3312
YKK/YXKK5001-12	280	40.7	40.1	91.9	93.3	0.72	490	4705
YKK/YXKK5002-12	315	45.7	45.1	92.1	93.4	0.72	490	4865
YKK/YXKK5003-12	355	50.0	49.3	92.3	93.6	0.74	490	4922
YKK/YXKK5004-12	400	56.2	55.5	92.6	93.8	0.74	490	5011
YKK/YXKK5005-12	450	63.1	62.3	92.7	93.9	0.74	490	5200
YKK/YXKK5601-12	500	69.8	69.0	93.1	94.2	0.74	490	6510
YKK/YXKK5602-12	560	76.1	75.2	93.2	94.3	0.76	495	6600
YKK/YXKK5603-12	630	85.5	84.5	93.3	94.4	0.76	495	6710
YKK/YXKK6304-12	710	96.2	95.1	93.4	94.5	0.76	495	8880
YKK/YXKK6305-12	800	108.1	106.8	93.7	94.8	0.76	495	9080
YKK/YXKK6306-12	900	121.5	120.1	93.8	94.9	0.76	495	9265
YKK/YXKK6307-12	1000	134.8	133.3	93.9	95.0	0.76	495	9310
YKK/YXKK6308-12	1120	150.9	149.3	94.0	95.0	0.76	495	9610

10 KV RANGE (FRAMES 400-630)

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

TYPE	RATED OUTPUT kW	RATED CURRENT YKK A	RATED CURRENT YXKK A	EFFICIENCY YKK %	EFFICIENCY YXKK %	POWER FACTOR cos φ	SPEED r/min	MAX. TORQUE T_{max}/T_N	LOCKED-ROTOR TORQUE / rated torque	LOCKED-ROTOR CURRENT / rated current	LOAD INERTIA J kg·m²	APPROX. MASS kg
YKK, YXKK4001-2	220	16.3	16.0	91.6	93.0	0.85	2975	1.8	0.6	7.0	18.3	2780
YKK, YXKK4002-2	250	18.4	18.2	91.8	93.2	0.85	2975	1.8	0.6	7.0	20.8	2840
YKK, YXKK4003-2	280	20.6	20.3	92.1	93.5	0.85	2975	1.8	0.6	7.0	23.4	2950
YKK, YXKK4004-2	315	23.1	22.8	92.4	93.7	0.85	2975	1.8	0.6	7.0	26.8	3050
YKK, YXKK4005-2	355	25.6	25.3	92.8	94.0	0.86	2975	1.8	0.6	7.0	30.1	3180
YKK, YXKK4006-2	400	28.8	28.5	93.1	94.2	0.86	2975	1.8	0.6	7.0	33.4	3230
YKK, YXKK4501-2	450	32.3	32.0	93.3	94.4	0.86	2975	1.8	0.6	7.0	37.4	3850
YKK, YXKK4502-2	500	35.9	35.5	93.4	94.5	0.86	2975	1.8	0.6	7.0	42.1	3910
YKK, YXKK4503-2	560	40.1	39.6	93.6	94.7	0.86	2975	1.8	0.6	7.0	46.3	4010
YKK, YXKK4504-2	630	44.6	44.1	93.7	94.7	0.87	2975	1.8	0.6	7.0	52.6	4120
YKK, YXKK4505-2	710	50.2	49.7	93.8	94.8	0.87	2975	1.8	0.6	7.0	59.4	4250
YKK, YXKK5003-2	800	56.4	55.8	94.0	95.0	0.87	2975	1.8	0.6	7.0	68.1	5950
YKK, YXKK5004-2	900	63.4	62.8	94.1	95.1	0.87	2980	1.8	0.6	7.0	75.8	6020
YKK, YXKK5005-2	1000	70.4	69.7	94.2	95.2	0.87	2980	1.8	0.6	7.0	83.5	6135
YKK, YXKK5006-2	1120	78.7	77.9	94.4	95.3	0.87	2980	1.8	0.6	7.0	93.6	6220

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

TYPE	RATED OUTPUT kW	RATED CURRENT YKK A	RATED CURRENT YXKK A	EFFICIENCY YKK %	EFFICIENCY YXKK %	POWER FACTOR cos φ	SPEED r/min	MAX. TORQUE T_{max}/T_N	LOCKED- ROTOR TORQUE / rated torque	LOCKED- ROTOR CURRENT / rated current	LOAD INERTIA J kg·m ²	APPROX. MASS kg
YKK, YXKK5602-2	1250	87.6	86.8	94.6	95.5	0.87	2980	1.8	0.6	7.0	104.5	7960
YKK, YXKK5603-2	1400	98.0	97.0	94.8	95.7	0.87	2980	1.8	0.6	7.0	117.3	8120
YKK, YXKK5604-2	1600	110.6	109.6	94.9	95.7	0.88	2980	1.8	0.6	7.0	133.3	8270
YKK, YXKK5605-2	1800	124.3	123.2	95.0	95.8	0.88	2980	1.8	0.6	7.0	150.2	8310
YKK, YXKK6301-2	2000	137.8	136.6	95.2	96.0	0.88	2980	1.8	0.6	7.0	167.5	9350
YKK, YXKK6302-2	2100	144.7	143.5	95.2	96.0	0.88	2980	1.8	0.6	7.0	175.2	9430
YKK, YXKK6303-2	2240	154.0	152.7	95.4	96.2	0.88	2980	1.8	0.6	7.0	187.9	9500
YKK, YXKK6304-2	2350	161.6	160.2	95.4	96.2	0.88	2980	1.8	0.6	7.0	196.3	9596
YKK, YXKK6305-2	2500	171.9	170.4	95.4	96.2	0.88	2980	1.8	0.6	7.0	208.8	9630

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

TYPE	RATED OUTPUT kW	RATED CURRENT YKK A	RATED CURRENT YXKK A	EFFICIENCY YKK %	EFFICIENCY YXKK %	COS φ	R/MIN	MAX. TORQUE T_{max}/T_N	LOCKED- ROTOR TORQUE T_R/T_N	LOCKED- ROTOR CURRENT I_R/I_N	J KG.M ²	APPROX. MASS kg
YKK, YXKK4001-4	220	16.7	16.4	91.4	92.8	0.83	1485	1.8	0.7	7.0	123.3	2560
YKK, YXKK4002-4	250	18.9	18.6	91.6	93.0	0.83	1485	1.8	0.7	7.0	146.7	2610
YKK, YXKK4003-4	280	21.2	20.8	91.8	93.2	0.83	1485	1.8	0.7	7.0	157.3	2680
YKK, YXKK4004-4	315	23.7	23.4	92.1	93.5	0.83	1485	1.8	0.7	7.0	177.3	2746
YKK, YXKK4005-4	355	25.8	25.4	92.3	93.6	0.86	1485	1.8	0.7	7.0	199.1	2798
YKK, YXKK4006-4	400	28.6	28.6	92.5	93.7	0.86	1485	1.8	0.7	7.0	225.7	2835
YKK, YXKK4501-4	450	32.1	32.1	92.9	94.1	0.86	1485	1.8	0.7	7.0	253.2	3735
YKK, YXKK4502-4	500	35.6	35.6	93.0	94.1	0.86	1485	1.8	0.7	7.0	281.3	3805
YKK, YXKK4503-4	560	39.8	39.8	93.3	94.4	0.86	1490	1.8	0.7	7.0	315.6	3889
YKK, YXKK4504-4	630	45.2	44.7	93.5	94.6	0.86	1490	1.8	0.7	7.0	354.7	3955
YKK, YXKK4505-4	710	50.6	50.1	94.1	95.1	0.86	1490	1.8	0.7	7.0	399.5	4015
YKK, YXKK5003-4	800	56.2	55.7	94.3	95.2	0.87	1490	1.8	0.7	7.0	450.4	4452
YKK, YXKK5004-4	900	63.2	62.6	94.4	95.3	0.87	1490	1.8	0.7	6.5	506.8	5052
YKK, YXKK5005-4	1000	70.2	69.5	94.5	95.4	0.87	1490	1.8	0.7	6.5	543.6	5122
YKK, YXKK5006-4	1120	78.5	77.8	94.6	95.5	0.87	1490	1.8	0.7	6.5	609.4	5230
YKK, YXKK5602-4	1250	87.5	86.7	94.7	95.6	0.87	1490	1.8	0.6	6.5	679.1	6860
YKK, YXKK5603-4	1400	96.6	95.8	95.0	95.8	0.88	1490	1.8	0.6	6.5	761.2	6990
YKK, YXKK5604-4	1600	110.3	109.4	95.1	95.9	0.88	1490	1.8	0.6	6.5	870.2	7030
YKK, YXKK5605-4	1800	124.0	123.0	95.2	96.0	0.88	1490	1.8	0.6	6.5	979.8	7100
YKK, YXKK6301-4	2000	137.5	136.3	95.4	96.2	0.88	1490	1.8	0.6	6.5	1087.8	8915
YKK, YXKK6302-4	2100	144.4	143.2	95.4	96.2	0.88	1490	1.8	0.6	6.5	1142.2	9035
YKK, YXKK6303-4	2240	154.2	152.9	95.5	96.3	0.88	1490	1.8	0.6	6.5	1218.3	9110
YKK, YXKK6304-4	2350	161.4	160.1	95.5	96.3	0.88	1490	1.8	0.6	6.5	1278.6	9209
YKK, YXKK6305-4	2500	171.7	170.3	95.5	96.3	0.88	1490	1.8	0.6	6.5	1359.4	9295

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

TYPE	RATED OUTPUT kW	RATED CURRENT YKK A	RATED CURRENT YXKK A	EFFICIENCY YKK %	EFFICIENCY YXKK %	COSΦ	R/MIN	MAX. TORQUE T_{max}/T_N	LOCKED- ROTOR TORQUE T_A/T_N	LOCKED- ROTOR CURRENT I_A/I_N	J KG.M ²	APPROX. MASS kg
YKK, YXKK4004-6	220	17.4	17.1	91.2	92.4	0.80	985	1.8	0.7	6.0	269.2	2695
YKK, YXKK4005-6	250	19.7	19.4	91.4	92.9	0.80	985	1.8	0.7	6.0	305.9	2775
YKK, YXKK4006-6	280	22.0	21.7	91.7	93.1	0.80	985	1.8	0.7	6.0	342.7	2825
YKK, YXKK4501-6	315	24.1	23.7	92.0	93.4	0.82	985	1.8	0.7	6.0	385.9	3725
YKK, YXKK4502-6	355	26.7	26.4	92.2	93.5	0.83	985	1.8	0.7	6.0	434.4	3795
YKK, YXKK4503-6	400	30.1	29.6	92.4	93.7	0.83	985	1.8	0.7	6.0	489.5	3835
YKK, YXKK4504-6	450	33.8	33.3	92.6	93.8	0.83	985	1.8	0.7	6.0	550.7	3899
YKK, YXKK4505-6	500	37.3	36.9	93.0	94.2	0.83	985	1.8	0.7	6.0	611.9	3925
YKK, YXKK5002-6	560	41.2	40.7	93.3	94.4	0.84	985	1.8	0.7	6.0	685.4	4695
YKK, YXKK5003-6	630	46.2	45.7	93.6	94.7	0.84	985	1.8	0.7	6.0	771	4735
YKK, YXKK5004-6	710	52.0	51.4	93.8	94.8	0.84	985	1.8	0.7	6.0	868.9	4815
YKK, YXKK5005-6	800	58.4	57.8	94.0	95.0	0.84	985	1.8	0.7	6.0	939	4885
YKK, YXKK5006-6	900	64.8	64.2	94.2	95.2	0.85	985	1.8	0.7	6.0	956	5060
YKK, YXKK5602-6	1000	71.9	71.2	94.4	95.3	0.85	985	1.8	0.7	6.0	971	6960
YKK, YXKK5603-6	1120	80.4	79.6	94.6	95.5	0.85	985	1.8	0.7	6.0	1066.3	7086
YKK, YXKK5604-6	1250	88.6	87.7	94.7	95.6	0.86	985	1.8	0.7	6.0	1189.7	7100
YKK, YXKK5605-6	1400	98.8	98.0	95.1	95.9	0.86	990	1.8	0.7	6.0	1332.6	7195
YKK, YXKK6301-6	1600	112.8	111.8	95.2	96.0	0.86	990	1.8	0.6	6.0	1522.8	8995
YKK, YXKK6302-6	1800	126.8	125.8	95.3	96.0	0.86	990	1.8	0.6	6.0	1713.6	9026
YKK, YXKK6303-6	2000	140.7	139.7	95.4	96.1	0.86	990	1.8	0.6	6.0	1904.9	9100
YKK, YXKK6304-6	2100	147.7	146.7	95.4	96.1	0.86	990	1.8	0.6	6.0	1998.8	9195
YKK, YXKK6305-6	2240	157.6	156.4	95.4	96.1	0.86	990	1.8	0.6	6.0	2132.3	9254

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

TYPE	RATED OUTPUT kW	RATED CURRENT YKK A	RATED CURRENT YXKK A	EFFICIENCY YKK %	EFFICIENCY YXKK %	COSΦ	R/MIN	MAX. TORQUE T_{max}/T_N	LOCKED- ROTOR TORQUE T_A/T_N	LOCKED- ROTOR CURRENT I_A/I_N	J KG.M ²	APPROX. MASS kg
YKK, YXKK4502-8	220	18.5	18.2	91.1	92.6	0.75	740	1.8	0.7	6.0	475.4	3760
YKK, YXKK4503-8	250	21.0	20.7	91.3	92.8	0.75	740	1.8	0.7	6.0	521.9	3820
YKK, YXKK4504-8	280	23.2	22.8	91.6	93.0	0.76	740	1.8	0.7	6.0	584.3	3899
YKK, YXKK4505-8	315	25.6	25.2	92.0	93.4	0.77	740	1.8	0.7	6.0	657.2	3930
YKK, YXKK5001-8	355	28.8	28.4	92.4	93.7	0.77	740	1.8	0.7	6.0	740.8	4860
YKK, YXKK5002-8	400	32.0	31.5	92.5	93.8	0.78	740	1.8	0.7	6.0	834.6	4910
YKK, YXKK5003-8	450	35.9	35.4	92.7	93.9	0.78	740	1.8	0.7	6.0	938.9	5020
YKK, YXKK5004-8	500	39.2	38.7	93.1	94.3	0.79	740	1.8	0.7	6.0	1043	5110
YKK, YXKK5005-8	560	43.8	43.3	93.3	94.5	0.79	740	1.8	0.7	6.0	1168	5195
YKK, YXKK5006-8	630	47.2	46.7	93.8	94.9	0.82	740	1.8	0.7	6.0	1314	5283
YKK, YXKK5602-8	710	53.1	52.6	94.0	95.0	0.82	740	1.8	0.7	6.0	1481	6983

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

TYPE	RATED OUTPUT kW	RATED CURRENT YKK A	RATED CURRENT YXKK A	EFFICIENCY YKK %	EFFICIENCY YXKK %	COSΦ	R/MIN	MAX. TORQUE T_{max}/T_N	LOCKED- ROTOR TORQUE T_A/T_N	LOCKED- ROTOR CURRENT I_A/I_N	J KG.M ²	APPROX. MASS kg
YKK, YXKK5603-8	800	59.7	59.1	94.2	95.2	0.82	740	1.8	0.7	6.0	1669	7040
YKK, YXKK5604-8	900	67.1	66.4	94.3	95.3	0.82	740	1.8	0.7	6.0	1881	7105
YKK, YXKK5605-8	1000	74.5	73.7	94.5	95.5	0.82	740	1.8	0.7	6.0	1986	7195
YKK, YXKK6302-8	1120	82.2	81.4	94.7	95.6	0.83	740	1.8	0.7	6.0	2136	8396
YKK, YXKK6303-8	1250	91.7	90.8	94.8	95.7	0.83	740	1.8	0.7	6.0	2228	8445
YKK, YXKK6304-8	1400	102.6	101.6	94.9	95.8	0.83	740	1.8	0.6	6.0	2308	8496
YKK, YXKK6305-8	1600	117.2	116.1	94.9	95.8	0.83	740	1.8	0.7	6.0	2588	8545

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

TYPE	RATED OUTPUT kW	RATED CURRENT YKK A	RATED CURRENT YXKK A	EFFICIENCY YKK %	EFFICIENCY YXKK %	COSΦ	R/MIN	MAX. TORQUE T_{max}/T_N	LOCKED- ROTOR TORQUE T_A/T_N	LOCKED- ROTOR CURRENT I_A/I_N	J KG.M ²	APPROX. MASS kg
YKK, YXKK5001-10	250	21.9	21.6	91.2	92.7	0.72	590	1.8	0.7	5.5	636	4215
YKK, YXKK5002-10	280	23.8	23.4	91.5	93.0	0.74	590	1.8	0.7	5.5	712.3	4295
YKK, YXKK5003-10	315	26.8	26.3	91.7	93.2	0.74	590	1.8	0.7	5.5	801.4	4333
YKK, YXKK5004-10	355	29.6	29.2	92.1	93.4	0.75	590	1.8	0.7	5.5	903.4	4399
YKK, YXKK5005-10	400	33.3	32.8	92.3	93.6	0.75	590	1.8	0.7	5.5	1017	4445
YKK, YXKK5006-10	450	36.9	36.4	92.5	93.8	0.76	590	1.8	0.7	5.5	1144	4525
YKK, YXKK5601-10	500	40.4	39.8	92.7	94.0	0.77	590	1.8	0.7	5.5	1272	6762
YKK, YXKK5602-10	560	44.6	44.0	92.9	94.1	0.78	590	1.8	0.7	5.5	1424	6882
YKK, YXKK5603-10	630	50.0	49.4	93.1	94.3	0.78	590	1.8	0.7	5.5	1602	7010
YKK, YXKK5604-10	710	56.3	55.6	93.3	94.5	0.78	590	1.8	0.7	5.5	1806	7112
YKK, YXKK5605-10	800	63.1	62.4	93.8	94.8	0.78	590	1.8	0.7	5.5	2036	8210
YKK, YXKK6301-10	900	69.0	68.3	94.0	95.0	0.80	590	1.8	0.7	5.5	2286	8790
YKK, YXKK6302-10	1000	76.6	75.8	94.1	95.1	0.80	590	1.8	0.7	5.5	2546	8850
YKK, YXKK6303-10	1120	85.8	84.9	94.2	95.2	0.80	590	1.8	0.7	5.5	2820	8920
YKK, YXKK6304-10	1250	95.7	94.3	94.2	95.3	0.80	590	1.8	0.7	5.5	3180	8990
YKK, YXKK6305-10	1400	107.1	106.0	94.3	95.3	0.80	590	1.8	0.7	5.5	3561	9095

12 POLES — SYNCHRONOUS SPEED 500 R/MIN, 50 HZ

TYPE	RATED OUTPUT kW	RATED CURRENT YKK A	RATED CURRENT YXKK A	EFFICIENCY YKK %	EFFICIENCY YXKK %	COSΦ	R/MIN	MAX. TORQUE T_{max}/T_N	LOCKED- ROTOR TORQUE T_A/T_N	LOCKED- ROTOR CURRENT I_A/I_N	J KG.M ²	APPROX. MASS kg
YKK, YXKK5003-12	220	19.4	19.0	90.9	92.4	0.72	485	1.8	0.7	5.5	808.7	4195
YKK, YXKK5004-12	250	22.0	21.6	91.1	92.6	0.72	485	1.8	0.7	5.5	919	4235
YKK, YXKK5005-12	280	24.5	24.1	91.3	92.8	0.72	485	1.8	0.7	5.5	1029	4315
YKK, YXKK5006-12	315	27.6	27.1	91.5	93.0	0.72	485	1.8	0.7	5.5	1158	4395
YKK, YXKK5601-12	355	31.0	30.5	91.8	93.2	0.72	485	1.8	0.7	5.5	1305	6665
YKK, YXKK5602-12	400	34.3	33.8	92.0	93.4	0.73	485	1.8	0.7	5.5	1407	6777

12 POLES — SYNCHRONOUS SPEED 500 R/MIN, 50 HZ (CONTINUED)

TYPE	RATED OUTPUT kW	RATED CURRENT YKK A	RATED CURRENT YXKK A	EFFICIENCY YKK %	EFFICIENCY YXKK %	COSΦ	R/MIN	MAX. TORQUE T _{max} /T _N	LOCKED- ROTOR TORQUE T _R /T _N	LOCKED- ROTOR CURRENT I _R /I _N	J KG·M ²	APPROX. MASS kg
YKK, YXKK5603-12	450	38.6	38.0	92.2	93.5	0.73	485	1.8	0.7	5.5	1650	6890
YKK, YXKK5604-12	500	42.7	42.1	92.5	93.8	0.73	485	1.8	0.7	5.5	1838	6965
YKK, YXKK5605-12	560	47.0	46.4	92.9	94.1	0.74	485	1.8	0.7	5.5	2058	7055
YKK, YXKK6301-12	630	52.7	52.1	93.1	94.3	0.74	490	1.8	0.7	6.0	2315	9055
YKK, YXKK6302-12	710	59.3	58.6	93.3	94.5	0.74	490	1.8	0.7	6.0	2610	9135
YKK, YXKK6303-12	800	66.5	65.8	93.8	94.8	0.74	490	1.8	0.7	6.0	2940	9255
YKK, YXKK6304-12	900	74.8	74.0	93.8	94.8	0.74	490	1.8	0.7	6.0	3308	9342
YKK, YXKK6305-12	1000	83.1	82.2	93.8	94.8	0.74	490	1.8	0.7	6.0	3676	9459

BEARINGS

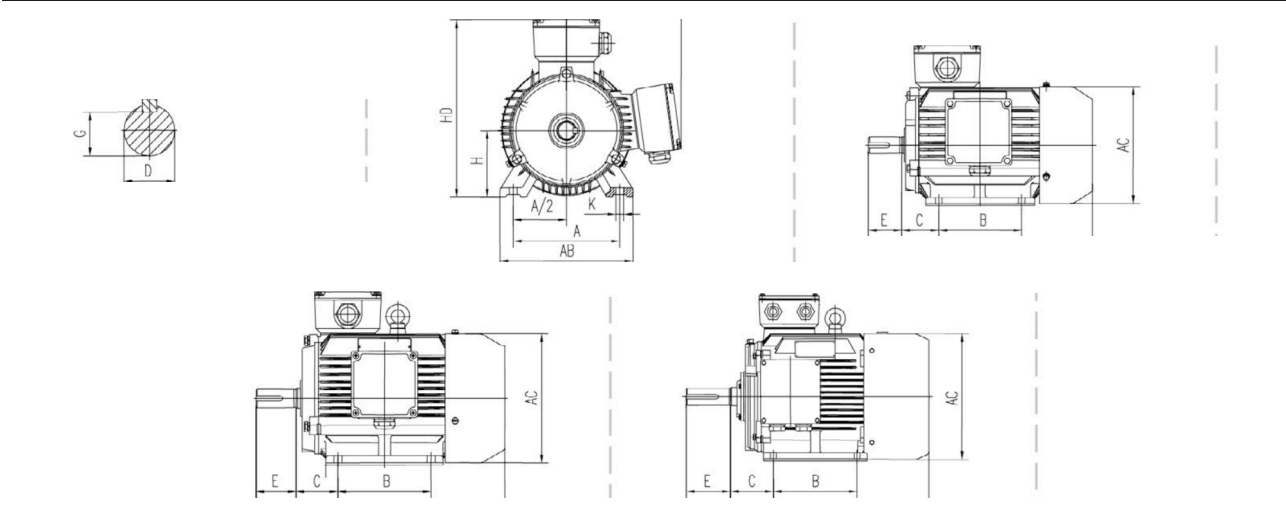
BEARING SPECIFICATION BY FRAME

FRAME	DRIVE-END BEARING	NON-DRIVE-END BEARING
H355-2	6318/C3	6318/C3
H355-4	NU222EM/C3	6222/C3
H400-2	6320/C3	6320/C3
H400-4	NU224EM/C3	6224/C3
H450-2	6322/C3	6322/C3
H450-4	NU228EM/C3	6226/C3
H500-2	sleeve bearing	sleeve bearing
H500-4	NU230EM/C3	6228/C3
H560-2	sleeve bearing	sleeve bearing
H560-4	NU234EM/C3	6232/C3
H630-2	sleeve bearing	sleeve bearing
H630-4	NU238EM/C3	6236/C3

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



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.

6 KV RANGE — OUTLINE AND MOUNTING DIMENSIONS (FRAMES 355-630)

FRAME	POLES	A	B	C	D	E	F	G	H	K	AC	AD	HD	L
355	2	630	900	315	80	170	22	71	355	28	550	1020	1500	2450
355	4~6	630	900	315	100	210	28	90	355	28	550	1020	1500	2450
400	2	710	1000	375	90	170	25	81	400	35	575	1050	1700	2600
400	4~10	710	1000	335	110	210	28	100	400	35	575	1050	1700	2600
450	2	800	1120	400	100	210	28	90	450	35	650	1120	1850	2850
450	4	800	1120	355	120	210	32	109	450	35	650	1120	1850	2850
450	6~12	800	1120	355	130	250	32	119	450	35	650	1120	1850	2850
500	2	900	1250	560	110	210	28	100	500	42	710	1200	2150	3290
500	4	900	1250	475	130	250	32	119	500	42	710	1200	2150	3290
500	6~12	900	1250	475	140	250	36	128	500	42	710	1200	2150	3290

6 KV RANGE — OUTLINE AND MOUNTING DIMENSIONS (FRAMES 355-630) (CONTINUED)

FRAME	POLES	A	B	C	D	E	F	G	H	K	AC	AD	HD	L
560	2	1000	1400	560	130	250	32	119	560	42	800	1260	2400	3500
560	4	1000	1400	500	150	250	36	138	560	42	800	1260	2400	3500
560	6~12	1000	1400	500	160	300	40	147	560	42	800	1260	2400	3500
630	2	1120	1600	560	140	250	36	128	630	48	900	1360	2720	3750
630	4	1120	1600	530	170	300	40	157	630	48	900	1360	2720	3750
630	6~12	1120	1600	530	180	300	45	165	630	48	900	1360	2720	3750

10 KV RANGE — OUTLINE AND MOUNTING DIMENSIONS (FRAMES 400-630)

FRAME	POLES	A	B	C	D	E	F	G	H	K	AC	AD	HD	L
400	2	710	1000	375	90	170	25	81	400	35	575	950	1700	2550
400	4~6	710	1000	335	110	210	28	100	400	35	575	950	1700	2400
450	2	800	1120	400	90	170	25	90	450	35	650	1000	1850	2850
450	4	800	1120	355	110	210	28	81/100	450	35	650	1000	1850	2580
450	6~10	800	1120	355	110	210	28	100	450	35	650	1000	1850	2580
500	2	900	1250	560	100	210	28	100	500	42	710	1100	2200	3290
500	4	900	1250	475	130	250	32	119	500	42	710	1100	2200	3030
500	6~12	900	1250	475	130	250	32	119	500	42	710	1100	2200	3030
560	2	1000	1400	560	130	250	32	119	560	42	800	1200	2390	3550
560	4	1000	1400	500	150	250	36	138	560	42	800	1200	2390	3290
560	6~12	1000	1400	500	160	300	40	147	560	42	800	1200	2390	3290
630	2	1120	1600	560	140	250	36	128	630	48	900	1200	2650	3790
630	4	1120	1600	530	170	300	40	157	630	48	900	1200	2650	3550
630	6~12	1120	1600	530	180	300	45	165	630	48	900	1200	2650	3550

INFORMATION REQUIRED WHEN ORDERING

- Motor type
 - Rated voltage (6000 V or 10000 V)
 - Synchronous speed
 - Degree of protection (IP54 / IP55)
 - Insulation class (F)
- Rated output
 - Rated frequency (50 Hz)
 - Mounting arrangement (IM B3)
 - Method of cooling (IC611)
 - Site conditions (altitude 1,000 m, ambient 40 °C)

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.