

IEC STANDARD SERIES

YE3 COMPACT HV

YE3 SERIES COMPACT HIGH-VOLTAGE THREE-PHASE INDUCTION MOTOR

Single-speed continuous-duty high-voltage squirrel-cage induction motor in a notably compact frame.

**185–3150** kW

RATED OUTPUT

H315–H630FRAME CENTRE
HEIGHT**3.3 / 6** kV

VOLTAGE CLASS

IP55/65DEGREE OF
PROTECTION

SERIES

YE3-CHV

REVISION

A01

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DESCRIPTION

The YE3 compact high-voltage series is a single-speed, continuous-duty high-voltage squirrel-cage three-phase induction motor. The design is compact and small in volume, with high efficiency, a high degree of protection, low noise, dependable performance, long service life and straightforward installation and maintenance.

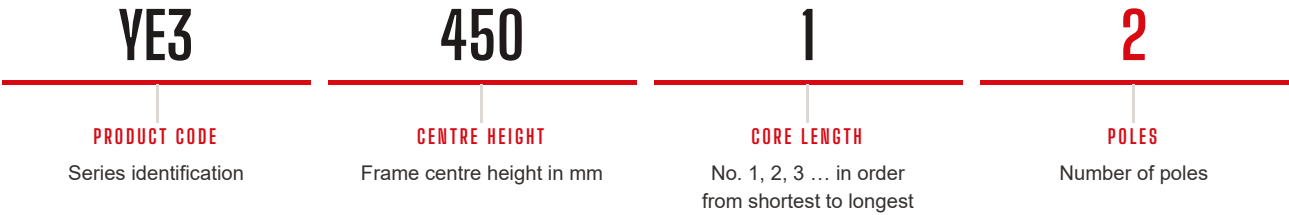
The series is offered in two voltage versions, 3.3 kV and 6 kV. The type numbering is common to both; rated current differs with voltage, as set out in the rated data tables.

TECHNICAL SPECIFICATION

Frame centre height	H315–H630 mm
Rated output power	185 kW–3150 kW
Rated voltage and frequency	6000V3300 V, 50 Hz
Degree of protection	IP55/IP65
Thermal class	155 (F)
Method of cooling	IC411
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)

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.



YE3-4501-2 = YE3 compact high-voltage induction motor, frame centre height 450 mm, No. 1 core length, 2 poles.

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

- Water pumps
- Fans
- Compressors

NOTES

VOLTAGE VERSIONS

3.3 kV and 6 kV. Rated current differs between versions; read the table for the voltage you are specifying.

RATED DATA

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

3.3 KV VERSION

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

TYPE	RATED OUTPUT kW	SPEED r/min	EFFICIENCY %	POWER FACTOR cos φ	RATED CURRENT A
YE3-3151-2	200	2980	92.7	0.84	45
YE3-3152-2	220	2980	92.9	0.85	49
YE3-3153-2	250	2980	93.1	0.85	55
YE3-3154-2	280	2980	93.3	0.85	62
YE3-3155-2	315	2980	93.5	0.86	69
YE3-3552-2	355	2980	93.8	0.86	77
YE3-3553-2	400	2980	94.0	0.86	87

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

TYPE	RATED OUTPUT kW	SPEED r/min	EFFICIENCY %	POWER FACTOR cos φ	RATED CURRENT A
YE3-3554-2	450	2980	94.2	0.86	97
YE3-3555-2	500	2980	94.4	0.87	107
YE3-4001-2	560	2980	94.6	0.87	119
YE3-4002-2	630	2980	94.8	0.87	134
YE3-4003-2	710	2980	95.0	0.87	150
YE3-4501-2	800	2985	95.2	0.88	167
YE3-4502-2	900	2980	95.3	0.88	188
YE3-4503-2	1000	2980	95.4	0.88	208
YE3-4504-2	1120	2980	95.6	0.88	233
YE3-4505-2	1250	2980	95.7	0.89	257
YE3-5001-2	1000	2980	95.4	0.88	208
YE3-5002-2	1120	2980	95.6	0.88	233
YE3-5003-2	1250	2980	95.7	0.89	257
YE3-5004-2	1400	2980	95.8	0.89	287
YE3-5601-2	1600	2980	95.9	0.89	328
YE3-5602-2	1800	2980	96.1	0.89	368
YE3-5603-2	2000	2980	96.2	0.90	404
YE3-6301-2	2240	2980	96.2	0.90	453
YE3-6302-2	2500	2980	96.3	0.90	505
YE3-6303-2	2800	2980	96.3	0.90	565

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

TYPE	RATED OUTPUT kW	EFFICIENCY %	POWER FACTOR cos φ	RATED CURRENT A
YE3-3151-4	200	92.5	0.82	46
YE3-3152-4	220	92.7	0.84	49
YE3-3153-4	250	92.9	0.84	56
YE3-3154-4	280	93.1	0.85	62
YE3-3155-4/3551-4	315	93.4	0.85	69
YE3-3552-4	355	93.7	0.86	77
YE3-3553-4	400	93.9	0.86	87
YE3-3554-4	450	94.1	0.86	97
YE3-3555-4	500	94.3	0.87	107
YE3-4001-4	560	94.5	0.87	119
YE3-4002-4	630	94.7	0.87	134
YE3-4003-4	710	94.9	0.87	150
YE3-4501-4	800	95.1	0.87	169

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

TYPE	RATED OUTPUT kW	EFFICIENCY %	POWER FACTOR COS φ	RATED CURRENT A
YE3-4502-4	900	95.2	0.88	188
YE3-4503-4	1000	95.3	0.88	209
YE3-5001-4	1120	95.5	0.88	233
YE3-5002-4	1250	95.6	0.88	260
YE3-5003-4	1400	95.7	0.88	291
YE3-5004-4	1600	95.9	0.88	332
YE3-5601-4	1800	96.0	0.88	373
YE3-5602-4	2000	96.1	0.89	409
YE3-5603-4	2240	96.1	0.89	458
YE3-6301-4	2500	96.2	0.89	511
YE3-6302-4	2800	96.2	0.89	572
YE3-6303-4	3150	96.4	0.89	642

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

TYPE	RATED OUTPUT kW	EFFICIENCY %	POWER FACTOR COS φ	RATED CURRENT A
YE3-3552-6	280	92.9	0.78	68
YE3-3553-6	315	93.2	0.79	75
YE3-3554-6	355	93.5	0.79	84
YE3-3555-6	400	93.7	0.81	92
YE3-4001-6	450	93.9	0.83	101
YE3-4002-6	500	94.1	0.84	111
YE3-4003-6/4501-6	560	94.3	0.84	124
YE3-4502-6	630	94.6	0.84	139
YE3-4503-6	710	94.7	0.84	156
YE3-4504-6	800	94.9	0.84	176
YE3-5001-6	900	95.0	0.84	197
YE3-5002-6	1000	95.2	0.85	216
YE3-5003-6	1120	95.3	0.85	242
YE3-5601-6	1400	95.6	0.85	301
YE3-5602-6	1600	95.7	0.85	344
YE3-5603-6	1800	95.8	0.85	387
YE3-6301-6	2000	96.0	0.86	424
YE3-6302-6	2240	96.0	0.86	475
YE3-6303-6	2500	96.0	0.86	530

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

TYPE	RATED OUTPUT kW	EFFICIENCY %	POWER FACTOR COS φ	RATED CURRENT A
YE3-3551-8	200	91.8	0.74	52
YE3-3552-8	220	91.9	0.74	57
YE3-3553-8	250	92.2	0.75	63
YE3-3554-8	280	92.3	0.75	71
YE3-3555-8	315	92.6	0.78	76
YE3-4001-8	355	92.9	0.80	84
YE3-4002-8	400	93.1	0.80	94
YE3-4003-8	450	93.4	0.80	105
YE3-4501-8	450	93.4	0.80	105
YE3-4502-8	500	93.7	0.81	115
YE3-4503-8	560	93.8	0.81	129
YE3-4504-8	630	94.1	0.81	145
YE3-4505-8	710	94.2	0.81	163
YE3-5001-8	630	94.1	0.81	145
YE3-5002-8	710	94.2	0.81	163
YE3-5003-8	800	94.4	0.81	183
YE3-5004-8	900	94.5	0.82	203
YE3-5601-8	1000	94.7	0.82	225
YE3-5602-8	1120	94.8	0.82	252
YE3-5603-8	1250	95.0	0.82	281
YE3-5604-8	1400	95.1	0.83	310
YE3-6301-8	1600	95.3	0.83	354
YE3-6302-8	1800	95.4	0.83	398
YE3-6303-8	2000	95.6	0.83	441
YE3-6304-8	2240	95.6	0.84	488

6 KV VERSION

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

TYPE	RATED OUTPUT kW	SPEED r/min	EFFICIENCY %	POWER FACTOR COS φ	RATED CURRENT A
YE3-3552-2	355	2980	93.8	0.86	42
YE3-3553-2	400	2980	94.0	0.86	48
YE3-3554-2	450	2980	94.2	0.86	53
YE3-3555-2	500	2980	94.4	0.87	59
YE3-4001-2	560	2980	94.6	0.87	65
YE3-4002-2	630	2980	94.8	0.87	74
YE3-4003-2	710	2980	95.0	0.87	83

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

TYPE	RATED OUTPUT kW	SPEED r/min	EFFICIENCY %	POWER FACTOR cos φ	RATED CURRENT A
YE3-4501-2	800	2985	95.2	0.88	92
YE3-4502-2	900	2980	95.3	0.88	103
YE3-4503-2	1000	2980	95.4	0.88	115
YE3-4504-2	1120	2980	95.6	0.88	128
YE3-4505-2	1250	2980	95.7	0.89	141
YE3-5001-2	1000	2980	95.4	0.88	115
YE3-5002-2	1120	2980	95.6	0.88	128
YE3-5003-2	1250	2980	95.7	0.89	141
YE3-5004-2	1400	2980	95.8	0.89	158
YE3-5601-2	1600	2980	95.9	0.89	180
YE3-5602-2	1800	2980	96.1	0.89	203
YE3-5603-2	2000	2980	96.2	0.90	222
YE3-6301-2	2240	2980	96.2	0.90	249
YE3-6302-2	2500	2980	96.3	0.90	278
YE3-6303-2	2800	2980	96.3	0.90	311

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

TYPE	RATED OUTPUT kW	EFFICIENCY %	POWER FACTOR cos φ	RATED CURRENT A
YE3-3551-4	315	93.4	0.85	38
YE3-3552-4	355	93.7	0.86	42
YE3-3553-4	400	93.9	0.86	48
YE3-3554-4	450	94.1	0.86	54
YE3-3555-4	500	94.3	0.87	59
YE3-4001-4	560	94.5	0.87	66
YE3-4002-4	630	94.7	0.87	74
YE3-4003-4	710	94.9	0.87	83
YE3-4501-4	800	95.1	0.87	93
YE3-4502-4	900	95.2	0.88	103
YE3-4503-4	1000	95.3	0.88	115
YE3-5001-4	1120	95.5	0.88	128
YE3-5002-4	1250	95.6	0.88	143
YE3-5003-4	1400	95.7	0.88	160
YE3-5004-4	1600	95.9	0.88	182
YE3-5601-4	1800	96.0	0.88	205
YE3-5602-4	2000	96.1	0.89	225
YE3-5603-4	2240	96.1	0.89	252

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

TYPE	RATED OUTPUT kW	EFFICIENCY %	POWER FACTOR COS φ	RATED CURRENT A
YE3-6301-4	2500	96.2	0.89	281
YE3-6302-4	2800	96.2	0.89	315
YE3-6303-4	3150	96.4	0.89	353

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

TYPE	RATED OUTPUT kW	EFFICIENCY %	POWER FACTOR COS φ	RATED CURRENT A
YE3-3552-6	280	92.9	0.78	37
YE3-3553-6	315	93.2	0.79	41
YE3-3554-6	355	93.5	0.79	46
YE3-3555-6	400	93.7	0.81	51
YE3-4001-6	450	93.9	0.83	56
YE3-4002-6	500	94.1	0.84	61
YE3-4003-6/4501-6	560	94.3	0.84	68
YE3-4502-6	630	94.6	0.84	76
YE3-4503-6	710	94.7	0.84	86
YE3-4504-6	800	94.9	0.84	97
YE3-5001-6	900	95.0	0.84	109
YE3-5002-6	1000	95.2	0.85	119
YE3-5003-6	1120	95.3	0.85	133
YE3-5004-6	1250	95.5	0.85	148
YE3-5601-6	1400	95.6	0.85	166
YE3-5602-6	1600	95.7	0.85	189
YE3-5603-6	1800	95.8	0.85	213
YE3-6301-6	2000	96.0	0.86	233
YE3-6302-6	2240	96.0	0.86	261
YE3-6303-6	2500	96.0	0.86	291

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

TYPE	RATED OUTPUT kW	EFFICIENCY %	POWER FACTOR COS φ	RATED CURRENT A
YE3-3551-8	200	91.8	0.74	28
YE3-3552-8	220	91.9	0.74	31
YE3-3553-8	250	92.2	0.75	35
YE3-3554-8	280	92.3	0.75	39
YE3-3555-8	315	92.6	0.78	42
YE3-4001-8	355	92.9	0.80	46

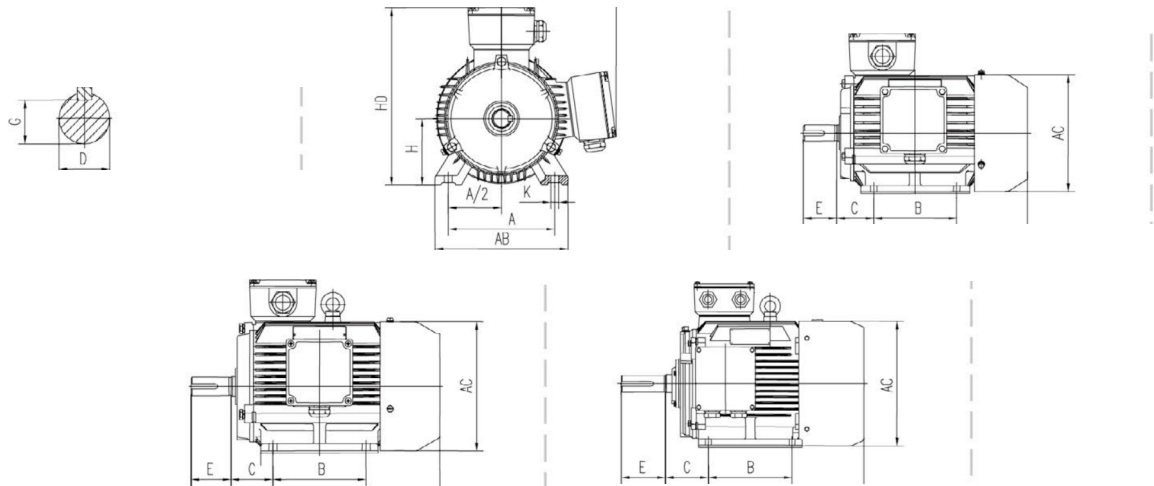
8 POLES — SYNCHRONOUS SPEED 750 R/MIN, 50 HZ (CONTINUED)

TYPE	RATED OUTPUT kW	EFFICIENCY %	POWER FACTOR COS φ	RATED CURRENT A
YE3-4002-8	400	93.1	0.80	52
YE3-4003-8	450	93.4	0.80	58
YE3-4501-8	450	93.4	0.80	58
YE3-4502-8	500	93.7	0.81	63
YE3-4503-8	560	93.8	0.81	71
YE3-4504-8	630	94.1	0.81	80
YE3-4505-8	710	94.2	0.81	90
YE3-5001-8	630	94.1	0.81	80
YE3-5002-8	710	94.2	0.81	90
YE3-5003-8	800	94.4	0.81	101
YE3-5004-8	900	94.5	0.82	112
YE3-5601-8	1000	94.7	0.82	124
YE3-5602-8	1120	94.8	0.82	139
YE3-5603-8	1250	95.0	0.82	154
YE3-5604-8	1400	95.1	0.83	171
YE3-6301-8	1600	95.3	0.83	195
YE3-6302-8	1800	95.4	0.83	219
YE3-6303-8	2000	95.6	0.83	243
YE3-6304-8	2240	95.6	0.84	268

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.

PRINCIPAL OUTLINE AND MOUNTING DIMENSIONS (MM)

FRAME	POLES	A	B	C	D	E	F	G (NOTE B)	H	K	AD	HD	L	(BB)
315	2	560±1.40	800±1.40	216	65~80	140~170	18~22	0/-0.043	315	28	780	920	2150/2270	1100
355	4~8	630±1.40	900±1.40	254	75~100	140~210	20~28	67.5/90/0	355	28	810	970	2250/2370	1250
400	2/4~8	710±1.75	1000±1.75	280	85~110	170~210	22~28	76/100/-0.052	400	35	850	1070	2370/2500	1340
450	2/4/6~12	800	1120	95~130(by pole number)	95~130	170~250	25~32	86/109/119	450	35	870	1160	2530/2590/2680	1460
500	2/4/6~12	900	1250	425#/315±4.0	110~140	210~250	28~36	100/119/128	500	42	920	1250	2810/2890	1600
560	2/4/6~12	1000	1400	530#/355±4.0	130~160	250~300	32~40	119/138/147	560	42	960	1360	3080/3110/3250	1800
630	2/4/6~12	1120	1600	560#/530	140~180	250~300	36~45	128/157/165	630	48	1035	1390	3325/3370/3450	1960

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