

SPECIAL PURPOSE SERIES

YD

YD SERIES POLE-CHANGING MULTI-SPEED THREE-PHASE INDUCTION MOTOR

Single-winding pole-changing motor for general machinery needing stepped speed control.

0.45-160 kW
RATED OUTPUT

H80-H280
FRAME CENTRE
HEIGHT

2 / 3
SPEEDS

Single
WINDING

SERIES
YD

REVISION
A01

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DESCRIPTION

The YD series changes speed and output by changing the winding connection, giving stepped speed control. Speed is changed by a single-winding pole-changing method, in two-speed and three-speed versions. It has a wide field of use, good starting behaviour, reliable running and easy maintenance.

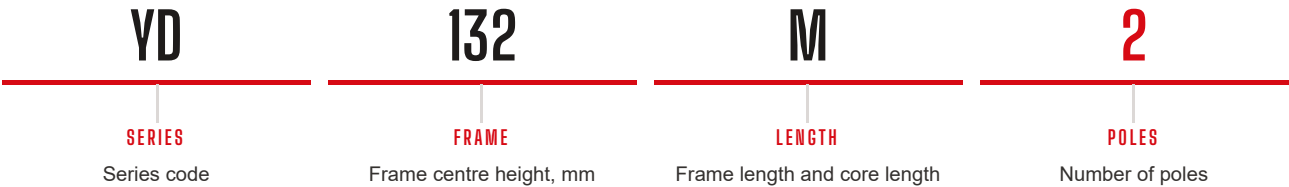
The series suits machinery of all kinds that needs stepped speed control. It is simple, small, quiet and inexpensive.

TECHNICAL SPECIFICATION

Speed combinations	Two-speed and three-speed, including 2/4, 6/8, 12, 2/4/6 and 2/4/8 poles
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 type designation is formed as follows, shown for **YD-132M-2**.



TYPICAL APPLICATIONS

- General machinery needing stepped speed control

NOTES

NOT FOR FANS AND PUMPS

The brochure states that this series is not for fan and pump duty; the YDT series covers that application, with output apportioned to the flow–speed law.

NOT EXPLOSION PROTECTED

This series carries no explosion-protection marking and must not be used in a hazardous area.

RATED DATA

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

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	A	A/2	B	C	D	E	F	G	H	K	M	N	P	R	FLANGE HOLES	AB	AC	AD	HD	L
YD80 M	125	62.5	100	50	19	40	6	15.5	80	10	165	130	200	0	4	165	175	150	175	290
YD90S	140	70	100	56	24	50	8	20	90	10	165	130	200	0	4	180	195	160	195	315
YD90L	140	70	125	56	24	50	8	20	90	10	165	130	200	0	4	180	195	160	195	340
YD100 L	160	80	140	63	28	60	8	24	100	12	215	180	250	0	4	205	215	180	245	380
YD112 M	190	95	140	70	28	60	8	24	112	12	215	180	250	0	4	245	240	190	265	400
YD132 S	216	108	140	89	38	80	10	33	132	12	265	230	300	0	4	280	275	210	315	475

PRINCIPAL OUTLINE AND MOUNTING DIMENSIONS (MM) (CONTINUED)

FRAME	A	A/2	B	C	D	E	F	G	H	K	M	N	P	R	FLANGE HOLES	AB	AC	AD	HD	L
YD132 M	216	108	178	89	38	80	10	33	132	12	265	230	300	0	4	280	275	210	315	515
YD160 M	254	127	210	108	42	110	12	37	160	14.5	300	250	350	0	4	330	335	265	385	605
YD160 L	254	127	254	108	42	110	12	37	160	14.5	300	250	350	0	4	330	335	265	385	650
YD180 M	279	139.5	241	121	48	110	14	42.5	180	14.5	300	250	350	0	4	355	380	285	430	670
YD180 L	279	139.5	279	121	48	110	14	42.5	180	14.5	300	250	350	0	4	355	380	285	430	710
YD200 L	318	159	305	133	55	110	16	49	200	18.5	350	300	400	0	4	395	420	315	475	775
YD225 S	356	178	286	149	60	140	18	53	225	18.5	400	350	450	0	8	435	475	345	530	820
YD225 M	356	178	311	149	60	140	18	53	225	18.5	400	350	450	0	8	435	475	345	530	845
YD250 M	406	203	349	168	65	140	18	58	250	24	500	450	550	0	8	490	515	385	575	930
YD280 S	457	228.5	368	190	75	140	20	67.5	280	24	500	450	550	0	8	550	586	410	640	1000
YD280 M	457	228.5	419	190	75	140	20	67.5	280	24	500	450	550	0	8	550	586	410	640	1050

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.