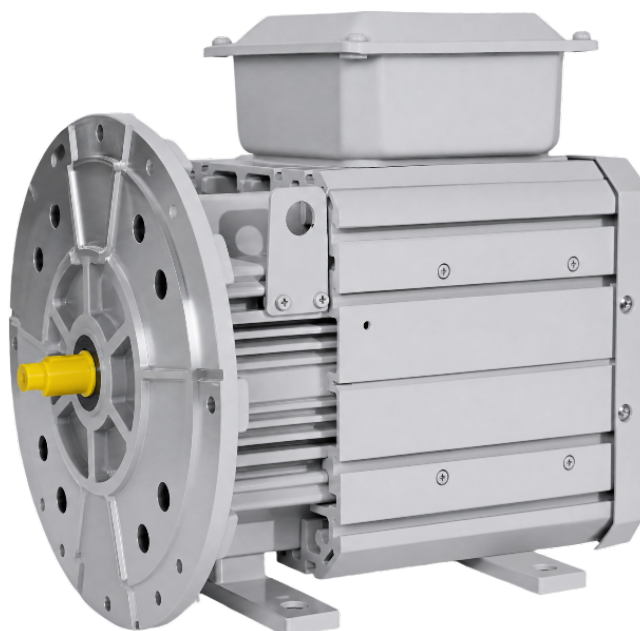


PERMANENT MAGNET SERIES

GTYP

GTYP SERIES HIGH EFFICIENCY HIGH SPEED PERMANENT MAGNET VARIABLE FREQUENCY SYNCHRONOUS MOTOR

High-speed permanent magnet motor for direct drive, to be used only with a permanent magnet motor inverter.

**1-185** kW

RATED OUTPUT

H71-H160FRAME CENTRE
HEIGHT**333-833** Hz

RATED FREQUENCY

180 (H)

THERMAL CLASS

SERIES

GTYP

REVISION

A01

ISSUE

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DESCRIPTION

The rotor uses an interior permanent magnet structure; the differing d-axis and q-axis magnetic circuits give the machine a degree of saliency torque. Rotor speed is synchronous with the stator field, so there is no slip and no slip loss, and efficiency stays high across the whole speed range.

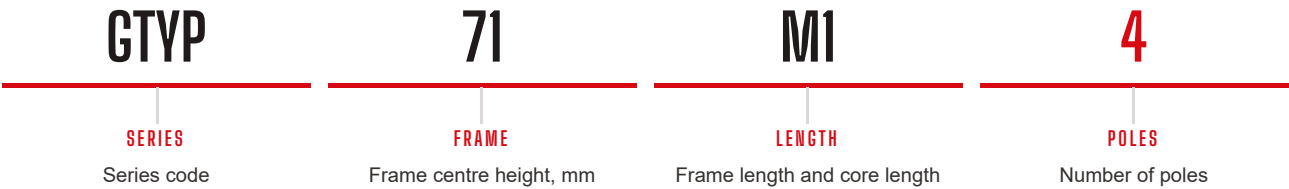
Its high speed lets the driven machine be coupled directly, removing the step-up stage. The motor is small, light, efficient and stable in performance, and can drive centrifugal fans, air knife machines and couplings.

TECHNICAL SPECIFICATION

Frame centre height	H71–H160 mm
Rated output power	1 kW–185 kW
Rated voltage and frequency	380 V, 333–833 Hz
Degree of protection	IP55
Thermal class	180 (H
Method of cooling	IC416 · 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 B5 (flange), IM B35 (foot and flange)

MODEL DESIGNATION

The type designation is formed as follows, shown for **GTYP 71M1 – 4**.



READING A DESIGNATION

All ratings listed in the brochure are 4-pole.

TYPICAL APPLICATIONS

■ Aquaculture ■ Environmental protection ■ Paper making ■ Chemical industry

NOTES**INTERFACE DIMENSIONS**

Interface dimensions of high-speed motors can be customised to a customer's requirement.

RATED DATA

The series is inverter-fed. Ratings below are grouped by synchronous speed with the corresponding base frequency; the constant-torque frequency band is stated with each group.

SYNCHRONOUS SPEED 10000 R/MIN · CONSTANT TORQUE 5-333 HZ

TYPE	RATED OUTPUT kW	RATED TORQUE N·m	RATED EFFICIENCY %
GTYP71M1-4	1.1	1.1	85.2
GTYP71M1-4	1.5	1.4	86.5
GTYP71M1-4	2.2	2.1	88.0
GTYP71M2-4	3	2.9	89.1
GTYP71M2-4	4	3.8	90.0
GTYP71M3-4	5.5	5.3	90.9
GTYP71M4-4	7.5	7.2	91.7
GTYP100L1-4	11	10.5	92.6
GTYP100L2-4	15	14.3	93.3
GTYP132S1-4	18.5	17.7	93.7
GTYP132S1-4	22	21.0	94.0
GTYP132S3-4	30	28.7	94.5
GTYP132M4-4	37	35.3	94.8
GTYP132M4-4	45	43.0	95.0
GTYP132M5-4	55	52.5	95.3
GTYP160L7-4	60	57.3	95.4
GTYP160L9-4	75	71.6	95.6
GTYP160L12-4	90	86	95.8
GTYP160L20-4	110	105	96.0

SYNCHRONOUS SPEED 10000 R/MIN · CONSTANT TORQUE 5-333 HZ (CONTINUED)

TYPE	RATED OUTPUT kW	RATED TORQUE N·m	RATED EFFICIENCY %
GTYP160L23-4	132	126	96.2

SYNCHRONOUS SPEED 15000 R/MIN · CONSTANT TORQUE 5-500 HZ

TYPE	RATED OUTPUT kW	RATED TORQUE N·m	RATED EFFICIENCY %
GTYP71M-4	1.1	0.7	85.2
GTYP71M-4	1.5	1.0	86.5
GTYP71M-4	2.2	1.4	88.0
GTYP71M1-4	3	1.9	89.1
GTYP71M2-4	4	2.5	90.0
GTYP71M3-4	5.5	3.5	90.9
GTYP71M4-4	7.5	4.8	91.7
GTYP100L1-4	11	7.0	92.6
GTYP100L1-4	15	9.6	93.3
GTYP100L2-4	18.5	11.8	93.7
GTYP132S-4	22	14.0	94.0
GTYP132S-4	30	19.1	94.5
GTYP132S3-4	37	23.6	94.8
GTYP132M-4	45	28.7	95.0
GTYP132M3-4	55	35.0	95.3
GTYP160L4-4	60	38.2	95.4
GTYP160L6-4	75	47.8	95.6
GTYP160L7-4	90	57.3	95.8
GTYP160L10-4	110	70.0	96.0
GTYP160L13-4	132	84.0	96.2
GTYP160L20-4	160	102	96.3

SYNCHRONOUS SPEED 20000 R/MIN · CONSTANT TORQUE 5-667 HZ

TYPE	RATED OUTPUT kW	RATED TORQUE N·m	RATED EFFICIENCY %
GTYP71M-4	1.1	0.5	85.2
GTYP71M-4	1.5	0.7	86.5
GTYP71M-4	2.2	1.1	88.0
GTYP71M-4	3	1.4	89.1
GTYP71M1-4	4	1.9	90.0
GTYP71M2-4	5.5	2.6	90.9
GTYP71M3-4	7.5	3.6	91.7

SYNCHRONOUS SPEED 20000 R/MIN · CONSTANT TORQUE 5-667 HZ (CONTINUED)

TYPE	RATED OUTPUT kW	RATED TORQUE N·m	RATED EFFICIENCY %
GTYP100L1-4	11	5.3	92.6
GTYP100L1-4	15	7.2	93.3
GTYP100L1-4	18.5	8.8	93.7
GTYP100L2-4	22	10.5	94.0
GTYP132S-4	22	10.5	94.0
GTYP132S-4	30	14.3	94.5
GTYP132S-4	37	17.7	94.8
GTYP132S2-4	45	21.5	95.0
GTYP132M-4	55	26.3	95.3
GTYP132M1-4	60	28.7	95.4
GTYP160L3-4	75	35.8	95.6
GTYP160L5-4	90	43.0	95.8
GTYP160L6-4	110	52.5	96.0
GTYP160L8-4	132	63.0	96.2
GTYP160L10-4	160	76.4	96.3

SYNCHRONOUS SPEED 25000 R/MIN · CONSTANT TORQUE 5-833 HZ

TYPE	RATED OUTPUT kW	RATED TORQUE N·m	RATED EFFICIENCY %
GTYP71M-4	1.1	0.4	85.2
GTYP71M-4	1.5	0.6	86.5
GTYP71M-4	2.2	0.8	88.0
GTYP71M-4	3	1.1	89.1
GTYP71M1-4	4	1.5	90.0
GTYP71M1-4	5.5	2.1	90.9
GTYP71M2-4	7.5	2.9	91.7
GTYP71M3-4	11	4.2	92.6
GTYP71M4-4	15	5.7	93.3
GTYP100L2-4	18.5	7.1	93.7
GTYP100L2-4	22	8.4	94.0
GTYP100L3-4	30	11.5	94.5
GTYP100L4-4	37	14.1	94.8
GTYP100L5-4	45	17.2	95.0
GTYP132S2-4	55	21.0	95.3
GTYP132S3-4	60	22.9	95.4
GTYP132M1-4	75	28.7	95.6
GTYP132M3-4	90	34.4	95.8

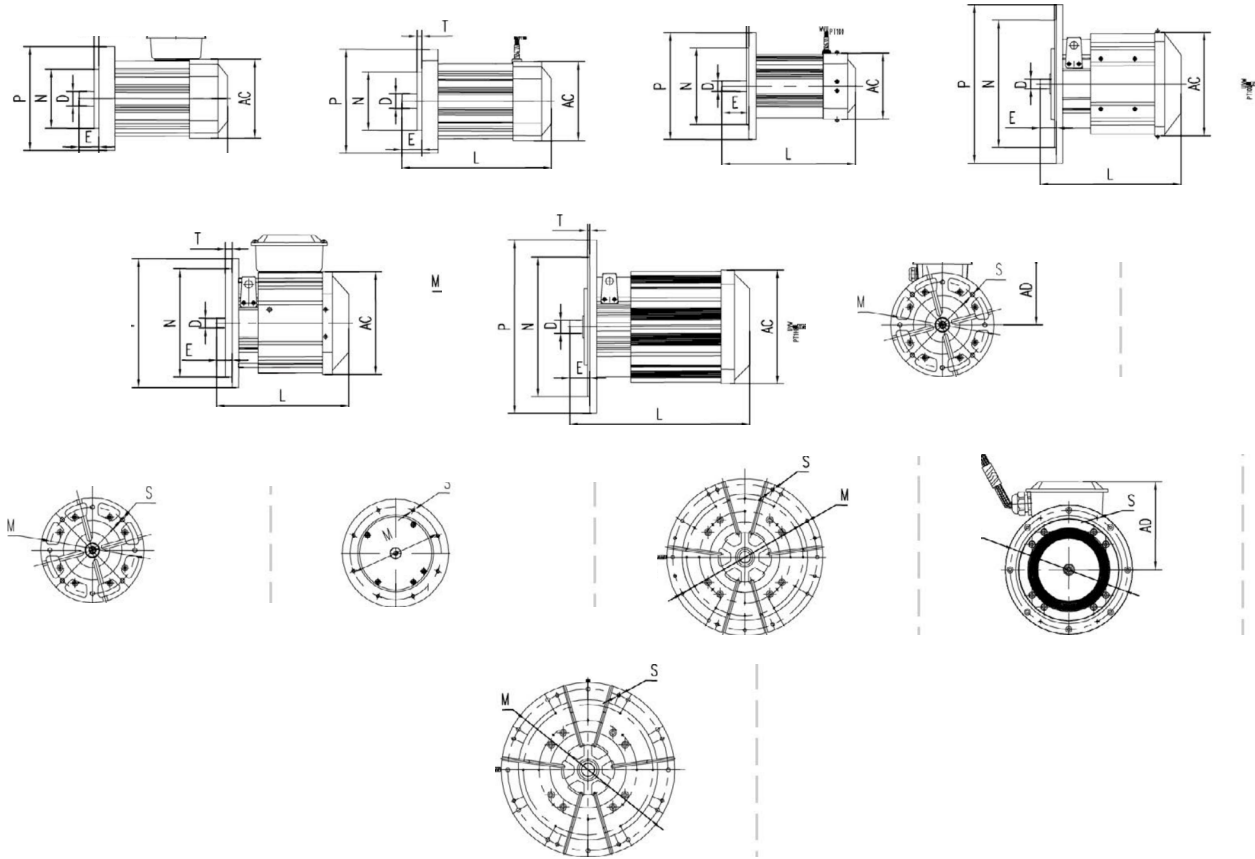
SYNCHRONOUS SPEED 25000 R/MIN · CONSTANT TORQUE 5-833 HZ (CONTINUED)

TYPE	RATED OUTPUT kW	RATED TORQUE N·m	RATED EFFICIENCY %
GTYP160L4-4	110	42.0	96.0
GTYP160L6-4	132	50.4	96.2
GTYP160L7-4	160	61.1	96.3
GTYP160L9-4	185	70.7	96.5

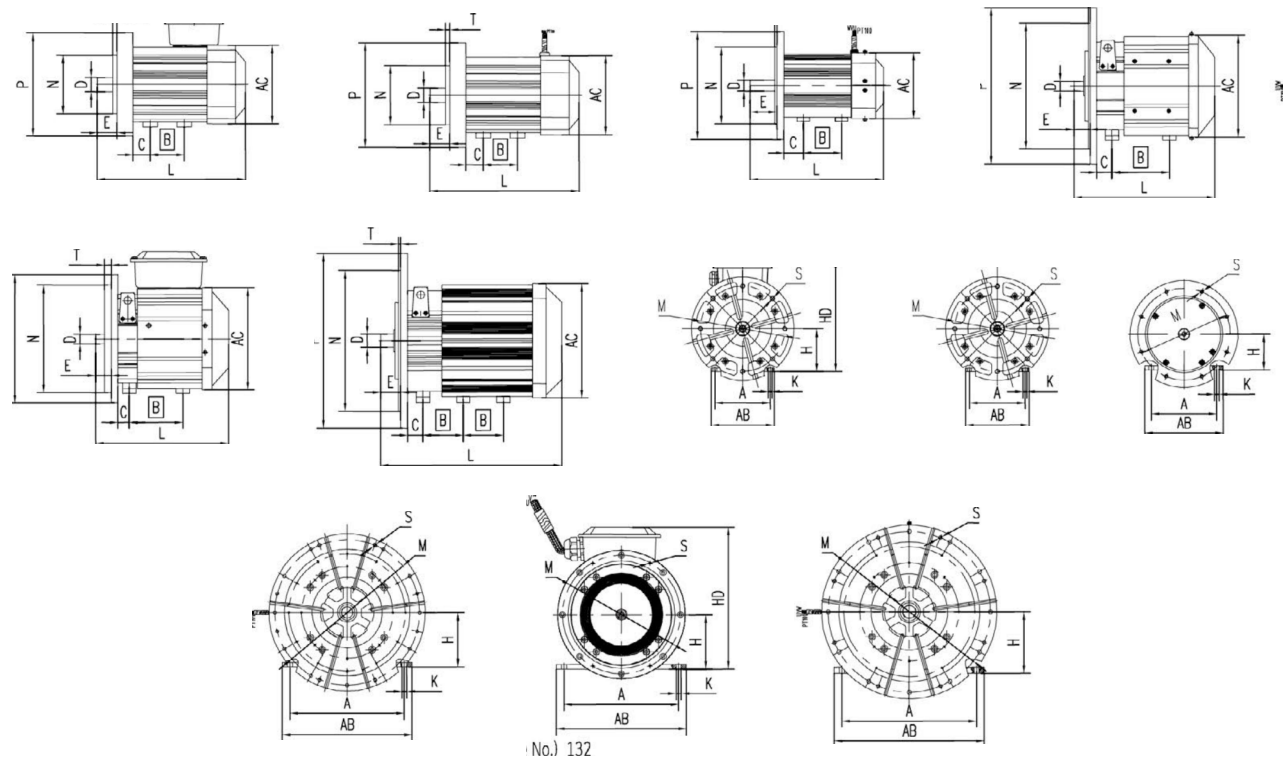
MOUNTING ARRANGEMENTS

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 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

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	H	K	M	N	P	S	FLANGE HOLES	AB	AC	AD	HD	L
71M, M1~M5	4	145	45~106	30	25(to order)	to order	74	10	148(to order)	102(to order)	180(to order)	M8(to order)	to order	165	132	120	195	to customer requirement
100L1~L5	4	170	85~145	50	to order	to order	93.3	12.5	240(to order)	200(to order)	280(to order)	M8(to order)	to order	200	182	/	/	to customer requirement
132S~M5	4	300	150~220	40	30(to order)	to order	142	13	380(to order)	330(to order)	410(to order)	M10(to order)	to order	340	264	228	370	to customer requirement
160L3~L20	4	330	105~220	40	35(to order)	to order	161	13.5	422(to order)	367(to order)	456(to order)	M10(to order)	to order	370	300	/	/	to customer requirement

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.