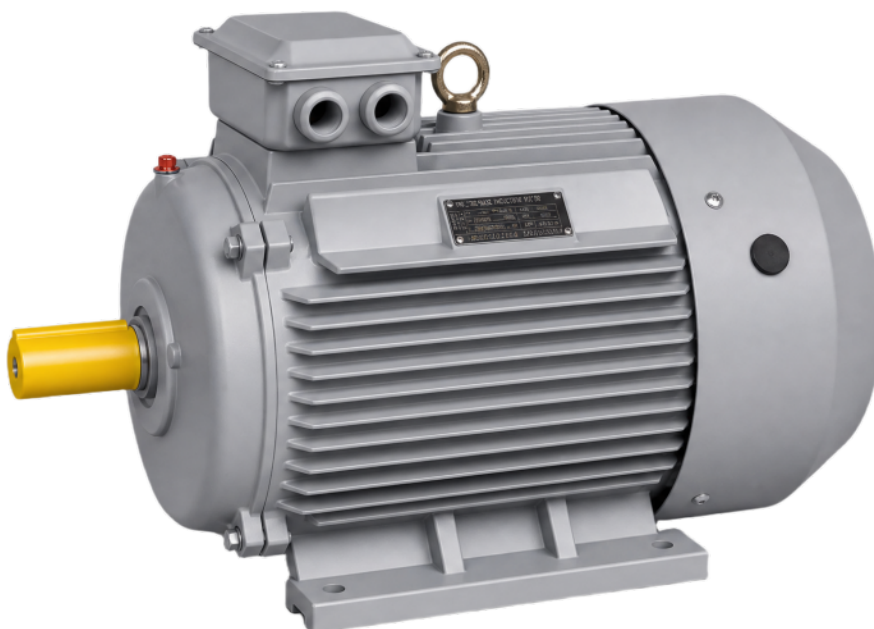


PERMANENT MAGNET SERIES

TYP

TYP SERIES HIGH EFFICIENCY PERMANENT MAGNET VARIABLE FREQUENCY SYNCHRONOUS MOTOR

Rare-earth permanent magnet synchronous motor for stepless speed control, matched to a synchronous inverter.

**0.37–315** kW

RATED OUTPUT

H80–H355FRAME CENTRE
HEIGHT**37.5–240** Hz

BASE FREQUENCY

IP54/55DEGREE OF
PROTECTION

SERIES

TYP

REVISION

A01

ISSUE

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DESCRIPTION

The TYP series is a variable-frequency, steplessly adjustable motor designed to work with a synchronous inverter. High-strength magnets are set in the rotor, making it a permanent magnet synchronous machine; it is built both with and without an encoder.

Rare-earth permanent magnet material gives strong field, high overload torque on starting and running, low current and a wide working frequency range. Efficiency is 5–10 % higher than an induction motor of the same rating, power factor approaches unity, and overall energy saving is 12–15 %.

The series suits stepless speed control duty and can replace YVP and YCT series motors. It runs well at low speed with high control accuracy. A matching control cabinet is available and can be built to a customer's requirement; motor and control system together give variable-frequency soft starting, which extends the life of the driven machine and reduces maintenance.

TECHNICAL SPECIFICATION

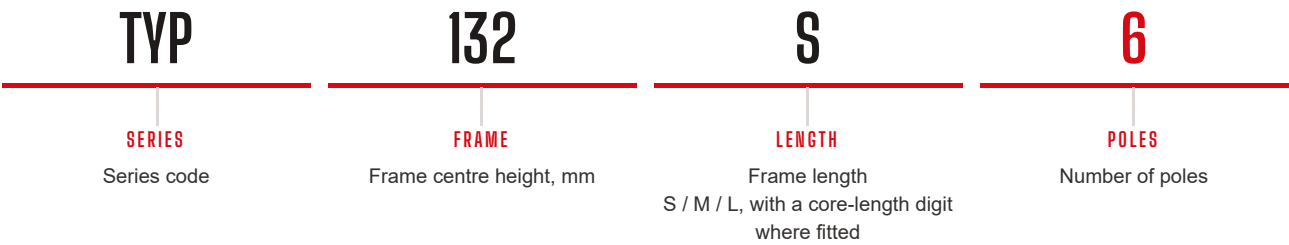
Frame centre height	H80–H355 mm
Rated output power	0.37 kW–315 kW
Supply voltage	380 V
Degree of protection	IP54 · IP55
Insulation class	F
Method of cooling	IC411
Base frequency	37.5, 50, 75, 100, 150, 200 and 240 Hz (customisable)
Altitude	Not exceeding 1,000 m (3,280 ft)
Ambient temperature	–15 °C to +40 °C (5 °F to 104 °F)
Duty type	S1, continuous duty
Mounting arrangements	IM B3 (foot mounting)

STANDARDS

Q/1083 SLJ 018-2018	High efficiency permanent magnet variable frequency synchronous motor
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MODEL DESIGNATION

The type designation is formed as follows, shown for **TYP 132S – 6**.



READING A DESIGNATION

Frames 80 to 355 are covered by the series standard.

TYPICAL APPLICATIONS

- Axial and centrifugal fans
- Pumps
- Powder separators
- Compressors
- Belt conveyors

NOTES

ENCODER

Built with or without an encoder; the encoder version pairs with the intelligent control system as a mechatronic drive package.

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.

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

TYPE	RATED OUTPUT kW	EFFICIENCY %	RATED CURRENT A	RATED TORQUE N·m
TYP132S-6	2.2	88.1	4	28.0
TYP132M1-6	3	88.9	5.4	38.2
TYP160M1-6	4	90.1	7.1	50.9
TYP160M2-6	5.5	90.9	9.7	70.0
TYP160L-6	7.5	91.5	13.1	95.5

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

TYPE	RATED OUTPUT kW	EFFICIENCY %	RATED CURRENT A	RATED TORQUE N·m
TYP180L-6	11	92.7	19.0	140.1
TYP200L-6	15	93.3	25.7	191
TYP225S-6	18.5	94.0	31.5	235.6
TYP225M-6	22	94.5	37.4	280.1
TYP250M-6	30	94.7	50.7	382
TYP280S-6	37	95.0	62.3	471.1
TYP280M-6	45	95.2	75.6	573
TYP315S-6	55	95.4	92.2	700.3
TYP315M-6	75	95.6	125	955
TYP315L1-6	90	95.6	151	1146
TYP315L2-6	110	95.7	184	1401

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

TYPE	RATED OUTPUT kW	EFFICIENCY %	RATED CURRENT A	RATED TORQUE N·m
TYP80M1-6	0.37	84.4	0.74	3.5
TYP80M2-6	0.55	85.9	1.06	5.3
TYP90L-6	1.1	88.7	1.98	10.5
TYP100L-6	1.5	89.9	2.7	14.3
TYP112M-6	2.2	90.9	3.9	21.0
TYP132S-6	3	91.8	5.2	28.7
TYP132M1-6	4	92.7	6.9	38.2
TYP132M2-6	5.5	93.4	9.4	52.5
TYP160M-6	7.5	94.0	12.8	71.6
TYP160L-6	11	94.5	18.6	105.1
TYP180L-6	15	94.9	25.3	143.3
TYP200L1-6	18.5	95.3	31.0	176.7
TYP200L2-6	22	95.6	36.8	210.1
TYP225M-6	30	95.8	50.1	286.5
TYP250M-6	37	96.0	61.6	353.4
TYP280S-6	45	96.2	74.8	429.8
TYP280M-6	55	96.3	91.3	525.3
TYP315S-6	75	96.4	124	716.3
TYP315M-6	90	96.5	149	859.5
TYP315L1-6	110	96.5	182	1051
TYP315L2-6	132	96.6	219	1261
TYP355M1-6	160	96.2	266	1528

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

TYPE	RATED OUTPUT kW	EFFICIENCY %	RATED CURRENT A	RATED TORQUE N·m
TYP355M-6	185	96.2	308	1767
TYP355M2-6	200	96.3	332	1910
TYP355M3-6	220	96.4	365	2101
TYP355L-6	250	96.5	414	2388

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

TYPE	RATED OUTPUT kW	EFFICIENCY %	RATED CURRENT A	RATED TORQUE N·m
TYP90S-6	1.1	87.4	2	7.0
TYP90L-6	1.5	88.1	2.7	9.6
TYP100L1-6	2.2	89.7	3.9	14.0
TYP100L2-6	3	90.3	5.3	19.1
TYP112M-6	4	90.9	7	25.5
TYP132S-6	5.5	92.1	9.6	35.0
TYP132M-6	7.5	92.6	13	47.8
TYP160M-6	11	93.6	18.8	70.0
TYP160L-6	15	94.0	25.5	95.5
TYP180M-6	18.5	94.3	31.4	117.8
TYP180L-6	22	94.7	37.2	140.1
TYP200L-6	30	95.0	50.5	191
TYP225S-6	37	95.3	62.1	235.6
TYP225M-6	45	95.6	75.3	286.5
TYP250M-6	55	95.8	91.8	350.2
TYP280S-6	75	96.0	125	477.5
TYP280M-6	90	96.2	150	573
TYP315S-6	110	96.5	182	700.3
TYP315M-6	132	96.6	219	840.4
TYP315L1-6	160	96.7	265	1019
TYP315L-6	185	96.7	306	1178
TYP315L2-6	200	96.7	331	1273
TYP315L3-6	220	96.7	364	1401
TYP355M-6	250	96.7	413	1592
TYP355M1-6	280	96.7	463	1783
TYP355L-6	315	96.8	520	2006

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

TYPE	RATED OUTPUT kW	EFFICIENCY %	RATED CURRENT A	RATED TORQUE N·m
TYP90S-6	1.5	90.9	2.64	4.8
TYP90L-6	2.2	91.8	3.83	7.0
TYP100L-6	3	92.6	5.2	9.6
TYP112M-6	4	93.3	6.9	12.7
TYP132S-6	5.5	94.0	9.4	17.5
TYP132M-6	7.5	94.5	12.7	23.9
TYP160M1-6	11	95.0	18.5	35.0
TYP160M2-6	15	95.3	25.2	47.8
TYP160L-6	18.5	95.6	31	58.9
TYP180M-6	22	95.9	36.7	70.0
TYP200L1-6	30	96.1	49.9	95.5
TYP200L2-6	37	96.3	61.4	117.8
TYP225M-6	45	96.4	74.7	143.3
TYP250M-6	55	96.5	91.2	175.1
TYP280S-6	75	96.6	124	238.8
TYP280M-6	90	96.7	149	286.5
TYP315S-6	110	96.8	182	350.2
TYP315M-6	132	96.8	218	420.2
TYP315L1-6	160	96.8	264	509.3
TYP315L-6	185	96.8	306	588.9
TYP315L2-6	200	96.8	330	636.7
TYP315L3-6	220	96.8	363	700.3
TYP355M-6	250	96.5	414	795.8
TYP355M1-6	280	96.5	464	891.3
TYP355L-6	315	96.5	522	1003

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

TYPE	RATED OUTPUT kW	EFFICIENCY %	RATED CURRENT A	RATED TORQUE N·m
TYP90S-8	0.75	84.9	1.40	9.6
TYP90L-8	1.1	86.0	2.02	14.0
TYP100L1-8	1.5	87.2	2.7	19.1
TYP100L2-8	2.2	88.1	4	28.0
TYP112M1-12	3	88.9	5.3	38.2
TYP112M2-12	4	90.1	7.0	50.9
TYP132S-12	5.5	90.9	9.6	70.0
TYP132M-12	7.5	91.5	13	95.5

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

TYPE	RATED OUTPUT kW	EFFICIENCY %	RATED CURRENT A	RATED TORQUE N·m
TYP160M-12	11	92.7	18.8	140.1
TYP160L-12	15	93.3	25.4	191
TYP180M-12	18.5	94.0	31.1	235.6
TYP180L-12	22	94.5	36.8	280.1
TYP200L-12	30	94.7	50.1	382
TYP225S-12	37	95.0	61.6	471.1
TYP225M-12	45	95.2	74.8	573
TYP250M-12	55	95.4	91.2	700.3
TYP280S-12	75	95.6	124	955
TYP280M-12	90	95.6	149	1146
TYP315S-12	110	94.7	184	1401
TYP315M1-12	132	94.9	220	1681
TYP315M2-12	160	95.1	266	2037
TYP315L1-12	185	95.3	307	2356
TYP315L2-12	200	95.4	322	2547
TYP355M-12	220	95.4	365	2801
TYP355M1-12	250	95.4	415	3183
TYP90S-8	1.1	88.7	1.96	10.5
TYP90L-8	1.5	89.9	2.64	14.3
TYP100L1-8	2.2	90.9	3.8	21.0
TYP100L2-8	3	91.8	5.2	28.7

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

TYPE	RATED OUTPUT kW	EFFICIENCY %	RATED CURRENT A	RATED TORQUE N·m
TYP112M-12	4	92.7	6.8	38.2
TYP132S1-12	5.5	93.4	9.3	52.5
TYP132S2-12	7.5	94.0	12.6	71.6
TYP132M-12	11	94.5	18.4	105.1
TYP160M-12	15	94.9	25	143.3
TYP160L-12	18.5	95.3	30.7	176.7
TYP180L-12	22	95.6	36.4	210.1
TYP200L1-12	30	95.8	49.6	286.5
TYP200L2-12	37	96.0	61	353.4
TYP225S-12	45	96.2	74	429.8
TYP225M-12	55	96.3	90.4	525.3
TYP250M-12	75	96.4	123	716.3

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

TYPE	RATED OUTPUT kW	EFFICIENCY %	RATED CURRENT A	RATED TORQUE N·m
TYP280S-12	90	96.5	148	859.5
TYP280M-12	110	95.8	182	1051
TYP315S1-12	132	96.0	218	1261
TYP315S2-12	160	96.2	263	1528
TYP315M1-12	185	96.2	304	1767
TYP315M2-12	200	96.3	329	1910
TYP315L1-12	220	96.4	361	2101
TYP315L2-12	250	96.5	410	2388
TYP355M1-12	280	96.5	459	2674
TYP355M2-12	315	96.6	516	3008

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

TYPE	RATED OUTPUT kW	EFFICIENCY %	RATED CURRENT A	RATED TORQUE N·m
TYP90S-8	1.5	88.1	2.69	9.6
TYP90L-8	2.2	89.7	3.88	14.0
TYP100L1-8	3	90.3	5.3	19.1
TYP100L2-8	4	90.9	7	25.5
TYP112M1-8	5.5	92.1	9.5	35.0
TYP112M2-8	7.5	92.6	12.8	47.8
TYP132S-8	11	93.6	18.6	70.0
TYP132M-8	15	94.0	25.3	—
TYP160M-8	18.5	94.3	31	117.8
TYP160L-8	22	94.7	36.8	140.1
TYP180M-8	30	95.0	50.0	191
TYP180L1-8	37	95.3	61.4	235.6
TYP180L2-8	45	95.6	74.5	286.5
TYP200L-8	55	95.8	90.9	350.2
TYP225S-8	75	96.0	123	477.5
TYP225M-8	90	96.2	148	573
TYP250M-8	110	96.3	181	700.3
TYP280S-8	132	96.4	217	840.4
TYP280M1-8	160	96.6	262	1019
TYP280M1-8	185	96.7	303	1178
TYP315S-8	200	96.7	339	1273
TYP315M1-8	220	96.7	369	1401
TYP315M2-8	250	96.7	422	1592

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

TYPE	RATED OUTPUT kW	EFFICIENCY %	RATED CURRENT A	RATED TORQUE N·m
TYP315L1-8	280	96.7	501	1783
TYP315L2-8	315	96.7	551	2006

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

TYPE	RATED OUTPUT kW	EFFICIENCY %	RATED CURRENT A	RATED TORQUE N·m
TYP90S-8	3	92.6	5.1	9.6
TYP90L-8	4	93.3	6.8	12.7
TYP100L1-8	5.5	94.0	9.3	17.5
TYP100L2-8	7.5	94.5	12.6	23.9
TYP112M-8	11	95.0	18.3	35.0
TYP132S1-8	15	95.3	24.9	47.8
TYP132S2-8	18.5	95.3	30.6	58.9
TYP132M-8	22	95.3	36.3	70
TYP160M-8	30	96.1	49.4	95.5
TYP160L-8	37	96.3	60.8	117.8
TYP180M-8	45	96.4	73.9	143.3
TYP180L-8	55	96.5	90.2	175.1
TYP200L1-8	75	96.6	123	238.8
TYP200L2-8	90	96.7	147	286.5
TYP225S-8	110	96.0	181	350.2
TYP225M-8	132	96.2	217	420.2
TYP250M-8	160	96.3	263	509.3
TYP280S-8	185	96.4	304	588.9
TYP280M-8	200	96.5	328	636.7
TYP315S1-8	220	96.5	361	700.3
TYP315S2-8	250	96.5	410	795.8
TYP315S3-8	280	96.5	459	891.3
TYP315S4-8	315	96.5	574	1003

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

TYPE	RATED OUTPUT kW	EFFICIENCY %	RATED CURRENT A	RATED TORQUE N·m
TYP132S1-8	15	93.3	25.4	39.8
TYP132S2-8	18.5	93.7	31.2	49.1
TYP132M-8	22	94.0	37	58.4
TYP160M-8	30	94.5	50.2	79.6

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

TYPE	RATED OUTPUT kW	EFFICIENCY %	RATED CURRENT A	RATED TORQUE N·m
TYP160L-8	37	94.8	61.8	98.2
TYP180M1-8	45	95.0	75	119.4
TYP180M2-8	55	95.3	91.3	145.9
TYP200L1-8	75	95.6	124	199
TYP200L2-8	90	95.8	149	238.8
TYP225S-8	110	96.0	181	291.8
TYP225M-8	132	96.2	217	350.2
TYP250M-8	160	96.3	263	424.4
TYP280S-8	185	96.4	304	490.8
TYP280M1-8	200	96.5	328	530.6
TYP280M-8	220	96.5	361	583.6
TYP280M2-8	250	96.5	410	663.2
TYP315S1-8	280	96.5	459	742.8
TYP315S2-8	315	96.5	538	835.6
TYP315M-8	355	96.5	606	941.7

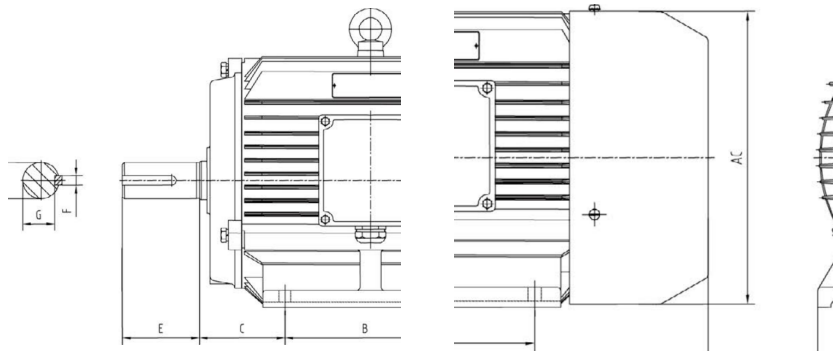
6 POLES — SYNCHRONOUS SPEED 1000 R/MIN, 50 HZ

FRAME	A	A2	B	C	D	E	F	G	H	K	AB	AC	AD	HD	L
TYP80M1-6/M2-6	125	62.5	100	50±1.5	19	40	6	15.5	80	10	165	156	145	220	285
TYP90S-6/90L-6	140	70	100~125	56±1.5	24	50	8	20	90	10	180	178	165	250	320~340
TYP100L-6	160	80	140	63±2	28	60	8	24	100	12	200	205	180	270	385
TYP112M	190	95	140	70±2	28	60	8	24	112	12	230	225	200	300	400
TYP132S/M	216	108	140~178	89±2	38	80	10	33	132	12	270	265	215	345	470~510
TYP160M/L	254	127	210~254	108±3	42	110	12	37	160	14.5	320	320	260	415	615~660
TYP180M/L	279	139.5	241~279	121±3	48	110	14	42.5	180	14.5	355	360	280	455	690~730
TYP200L	318	159	305	133±3	55	110	16	49	200	18.5	390	400	310	510	785
TYP225M/S	356	178	286~311	149±4	55~60	110~140	16~18	49~53	225	18.5	435	450	340	555	820~845
TYP250M	406	203	349	168±4	60~65	140	18	53~58	250	24	490	490	370	620	915
TYP280S/M	457	228.5	368~419	190±4	65~75	140	18~20	58~67.5	280	24	550	550	395	675~680	975~1030
TYP315S/M/L	508	254	406~508	216±4	65~80	140~170	18~22	58~71	315	28	630	630	530	850	1185~1335
TYP355M/L	610	305	560~630	254±4	75~95	140~170	20~25	67.5~86	355	28	730	710	650	1010	1500~1530

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

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 “Power factor $\cos \phi$ ” 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.

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.