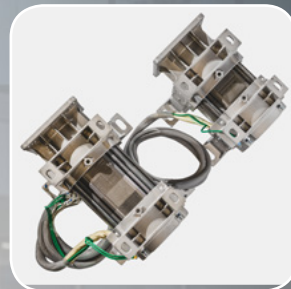
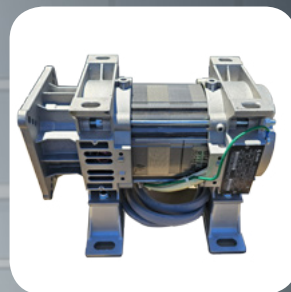




Submersible Hydraulic Motor Series by ELMO

High-Performance Electric Motors for Hydraulic Power Units



Elevator Motors (EMCO) supplies ELMO submersible electric motors designed specifically for hydraulic elevator power units. These motors operate fully immersed in hydraulic oil, delivering quiet operation, efficient cooling, and consistent performance for screw pump-driven elevator systems.

Built in Italy with decades of engineering experience, ELMO motors are widely used in elevator applications where compact design, reliability, and long operating life are critical.

Product Range – Selection Matrix

Power	208 V	230 V	230/460 V	575 V
3.5 HP (2.6 kW)	—	✓	—	—
5 HP (3.7 kW)	—	✓	—	—
15 HP (11 kW)	✓		✓	—
20 HP (15 kW)	✓		✓	✓
25 HP (18.5 kW)	✓		✓	✓
30 HP (22.1 kW)	✓		✓	✓
40 HP (29 kW)	✓		✓	✓
50 HP (37 kW)	✓		✓	✓

*Note: Other sizes are available on request.

Typical Applications

- Hydraulic passenger and freight elevators
- Lift machine-room power units
- Screw pump hydraulic systems
- Industrial lifting platforms
- Custom hydraulic drive assemblies

Key Benefits

- **Oil-Immersed Cooling:** Submerged operation allows heat to dissipate directly into the hydraulic fluid, enhancing efficiency and reducing noise.
- **High Load Resilience:** Built for durability, these motors handle the high torque demands of lift start-ups and peak cycles. Their thermal and mechanical strength ensures stability in high-traffic environments.
- **Seamless Pump Integration:** The motor is designed for direct mounting to screw pump assemblies. This precise alignment reduces mechanical vibration and extends the operational life of the entire drive unit.
- **Industrial Reliability:** Featuring integrated thermal protection and corrosion resistance, these motors meet strict elevator safety standards. They are engineered for the rigorous demands of typical duty vertical transport.
- **Optimized Energy Efficiency:** Integration with VVVF drives or soft starters enables smooth acceleration and lower power consumption. This setup reduces electrical stress on the system while significantly improving ride quality.

System Compatibility

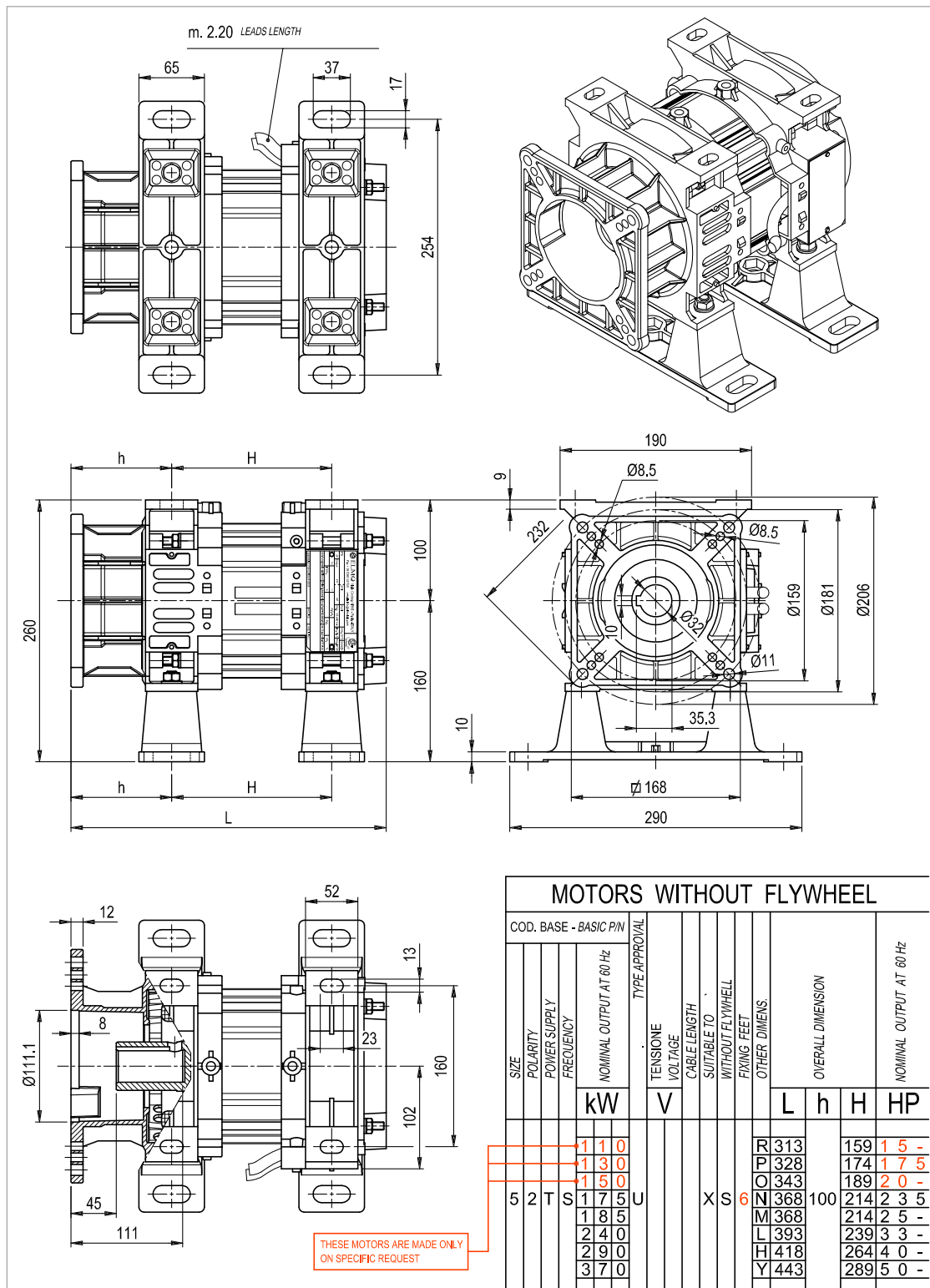
These motors are commonly paired with:

- Screw-type hydraulic pumps
- Gear pump systems
- Hydraulic valve manifolds
- Complete elevator power units

Technical Summary

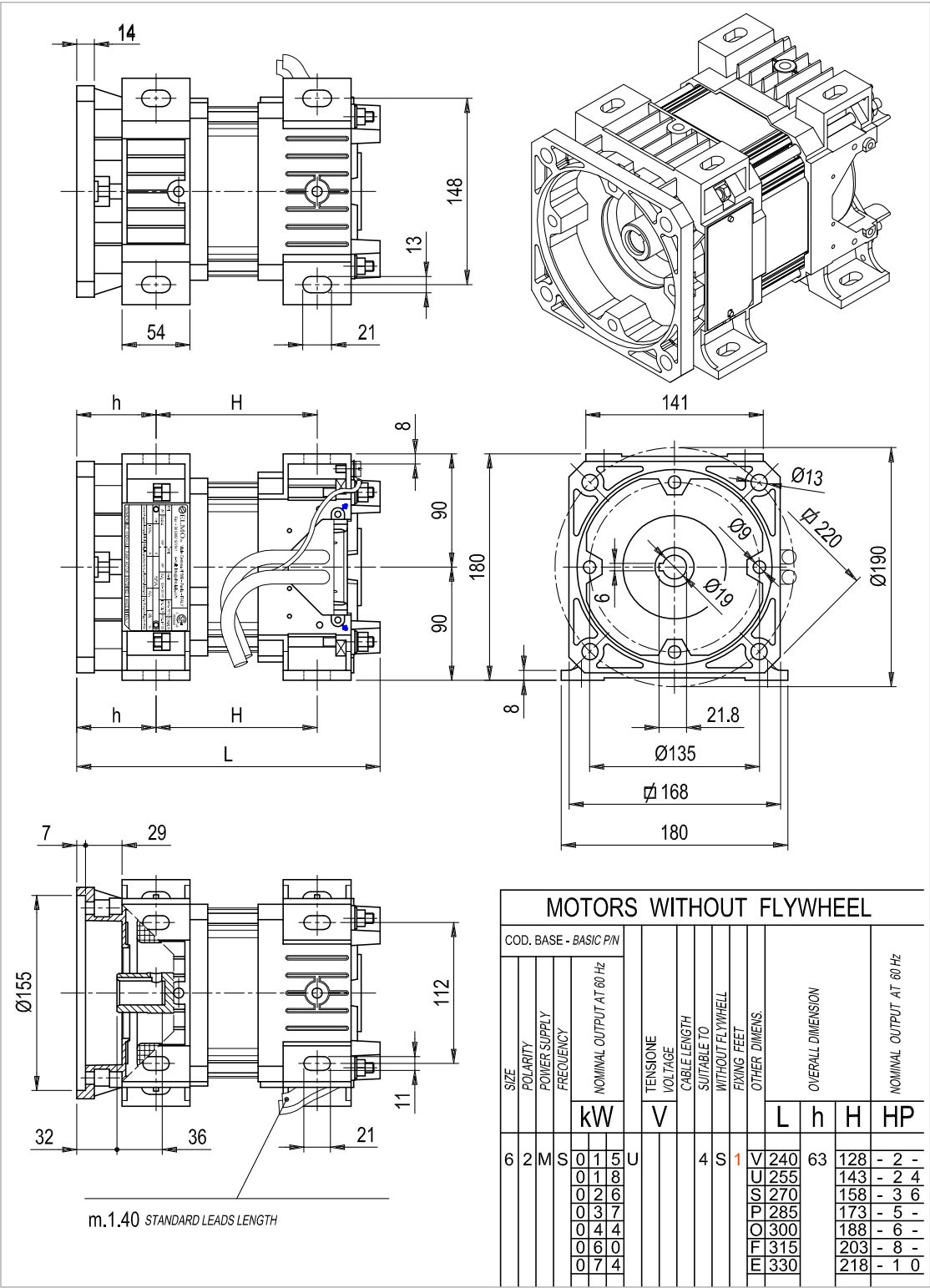
- **Output range:** 2.6 kW to 37 kW
- **Horsepower range:** 3.5 HP to 50 HP
- **Supply voltages:** 230 V, 208 V, 230–460 V, 575 V
- **Duty type:** S2 (30 min/60 min)
- **Cooling method:** Hydraulic oil immersion
- **Installation:** Tank-mounted submersible configuration
- **Motor type:** Single & Three-phase induction design

Submersible Motors for Hydraulic Lifts (3PH, 60HZ) Series 52TS-U-XS6



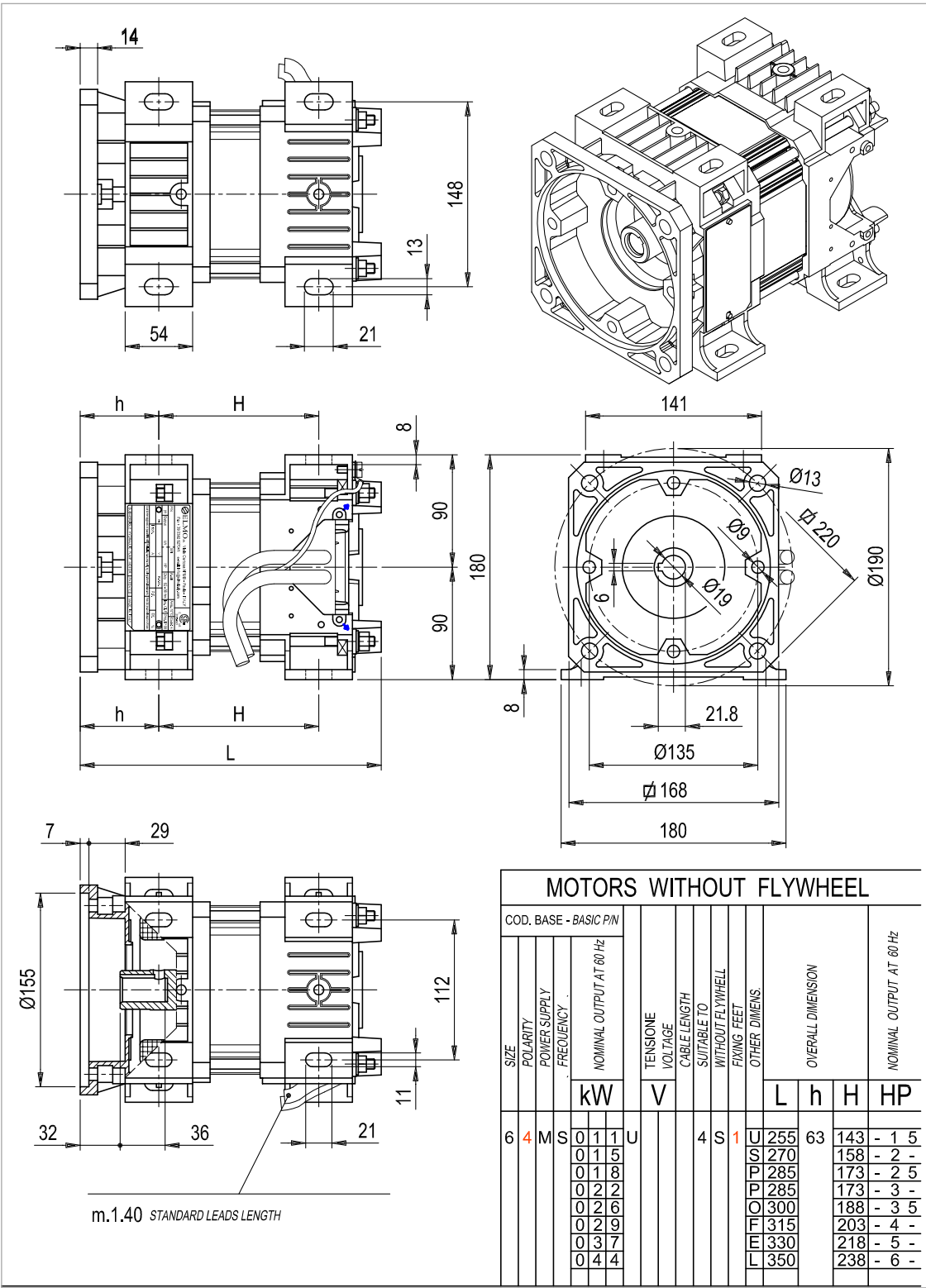
Dimensions in mm

Submersible Motors for Hydraulic Lifts (1PH, 60HZ) Series 62MS-U-4S1



Dimensions in mm

Submersible Motors for Hydraulic Lifts (1PH, 60HZ) Series 64MS-U-4S1



Dimensions in mm

Submersible Motors for Hydraulic Lifts Full Load Data—80 Starts Per Hour

ELMO PART NUMBER	EMCO PART NUMBER	DESCRIPTION	KW	HP	VOLTAGE	PHASE	FULL LOAD AMPS	LOCKED ROTOR AMPS	KVA CODE	TORQUE (FT/LBF)	SPEED (RPM)	FL EFFICIENCY (%)	MOTOR LOSS (BTU/HR)	FL POWER FACTOR	WEIGHT (LBS.)
52TS110U21MXS6R	HYDMTR-15.0HP-208V	11 kW-15 HP-208V-3PH	11	15	208V	3	50	186	D	23.1	3360	76	12060	0.81	45.2
52TS110U83XXS6R	HYDMTR-15.0HP-230/460V	11 kW-15 HP-230/460V-3PH	11	15	230V	3	45	168	D	23.1	3360	76	12060	0.81	45.0
52TS110U83XXS6R	HYDMTR-15.0HP-230/460V	11 kW-15 HP-230/460V-3PH	11	15	460V	3	22.4	84	D	23.1	3360	76	12060	0.81	45.0
52TS150U21MXS6O	HYDMTR-20.0HP-208V	15 kW-20 HP-208V-3PH	15	20	208V	3	63	239	D	30.5	3390	79	13530	0.83	53.6
52TS150U83XXS6O	HYDMTR-20.0HP-230/460V	15 kW-20 HP-230/460V-3PH	15	20	230V	3	57	216	D	30.5	3390	79	13530	0.83	54.0
52TS150U83XXS6O	HYDMTR-20.0HP-230/460V	15 kW-20 HP-230/460V-3PH	15	20	460V	3	28.3	108	D	30.5	3390	79	13530	0.83	54.0
52TS150U57MXS6O	HYDMTR-20.0HP-575V	15 kW-20 HP-575V-3PH	15	20	575V	3	23	86	D	30.5	3390	79	13530	0.83	53.1
52TS185U21MXS6M	HYDMTR-25.0HP-208V	18.5 kW-25 HP-208V-3PH	18.5	25	208V	3	77	310	D	38	3380	78	17950	0.86	61.5
52TS185U83XXS6M	HYDMTR-25.0HP-230/460V	18.5 kW-25 HP-230/460V-3PH	18.5	25	230V	3	69	280	D	38	3380	78	17950	0.86	60.8
52TS185U83XXS6M	HYDMTR-25.0HP-230/460V	18.5 kW-25 HP-230/460V-3PH	18.5	25	460V	3	35	140	D	38	3380	78	17950	0.86	60.8
52TS185U57MXS6M	HYDMTR-25.0HP-575V	18.5 kW-25 HP-575V-3PH	18.5	25	575V	3	27.7	112	D	38	3380	78	17950	0.86	60.4
52TS221U21MXS6L	HYDMTR-30.0HP-208V	22.1 kW-30 HP-208V-3PH	22.1	30	208V	3	90	376	E	46	3400	82	16760	0.83	69.4
52TS221U83XXS6L	HYDMTR-30.0HP-230/460V	22.1 kW-30 HP-230/460V-3PH	22.1	30	230V	3	82	340	E	46	3400	82	16760	0.83	68.8
52TS221U83XXS6L	HYDMTR-30.0HP-230/460V	22.1 kW-30 HP-230/460V-3PH	22.1	30	460V	3	41	170	E	46	3400	82	16760	0.83	68.8
52TS221U57MXS6L	HYDMTR-30.0HP-575V	22.1 kW-30 HP-575V-3PH	22.1	30	575V	3	33	136	E	46	3400	82	16760	0.83	68.1
52TS290U21MXS6H	HYDMTR-40.0HP-208V	29 kW-40 HP-208V-3PH	29	40	208V	3	115	420	C	60	3370	79	27060	0.88	76.7
52TS290U83XXS6H	HYDMTR-40.0HP-230/460V	29 kW-40 HP-230/460V-3PH	29	40	230V	3	104	380	C	60	3370	79	27060	0.88	74.3
52TS290U83XXS6H	HYDMTR-40.0HP-230/460V	29 kW-40 HP-230/460V-3PH	29	40	460V	3	52	190	C	60	3370	79	27060	0.88	74.3
52TS290U57MXS6H	HYDMTR-40.0HP-575V	29 kW-40 HP-575V-3PH	29	40	575V	3	42	152	C	60	3370	79	27060	0.88	75.4
52TS370U21MXS6Y	HYDMTR-50.0HP-208V	37 kW-50 HP-208V-3PH	37	50	208V	3	148	542	C	77	3370	79	33830	0.88	86.2
52TS370U83XXS6Y	HYDMTR-50.0HP-230/460V	37 kW-50 HP-230/460V-3PH	37	50	230V	3	134	490	C	77	3370	79	33830	0.88	85.5
52TS370U83XXS6Y	HYDMTR-50.0HP-230/460V	37 kW-50 HP-230/460V-3PH	37	50	460V	3	67	245	C	77	3370	79	33830	0.88	85.5
52TS370U57MXS6Y	HYDMTR-50.0HP-575V	37 kW-50 HP-575V-3PH	37	50	575V	3	53	196	C	77	3370	79	33830	0.88	83.3
62MS026U16C4S1S	HYDMTR-3.5HP-230V	2.6 kW-3.5 HP-230V-1PH	2.6	3.5	230V	1	21.3	42	A	5.3	3430	68	4190	0.99	32.4
62MS037U16C4S1P	HYDMTR-5.0HP-230V	3.7 kW-5 HP-230V-1PH	3.7	5	230V	1	31	65	A	7.6	3410	67	6270	0.96	37.3
64MS022U18D4S1P	HYDMTR-3.0HP-230V	2.2 kW-3 HP-230V-1PH	2.2	3	230V	1	21.7	42	B	9.1	1700	59	5306	0.81	38.5



**USA DISTRIBUTOR OF SUBMERSIBLE
HYDRAULIC MOTOR SERIES BY ELMO**

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