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SUBMERSIBLE MOTORS FOR HYDRAULIC LIFTS  
 UNTEROELMOTOREN FÜR HYDRAULISCHE AUFZUEGE  
 MOTEURS IMMERGÉS DANS L'HUILE POUR ASCENSEURS HIDRAULIQUES

**PART NUMBER**

S – Standard motor without flywheel  
 TYPE: V – Standard motor with flywheel  
 W – Special motor with external flywheel

**SIZE: 1 / 2 / 3 / 4**  
 Construction Size 3 (135x135) or Size 4 (143x143)  
 31 = flange Ø82.55 hole Ø14 type S or W  
 34 = flange Ø155 hole Ø19 type S or V or W  
 36 = flange Ø220 hole Ø32 type S or V  
 39 = flange Ø155 hole Ø32 type S or V  
 Construction Size 1 (154x154)  
 44 = flange Ø155 hole Ø19 type S or V  
 46 = flange Ø220 hole Ø32 type S or V  
 49 = flange Ø155 hole Ø32 type S or V  
 Construction Size 2 (210x210)  
 76 = flange Ø220 hole Ø32 type S or V  
 79 = flange Ø220 hole Ø38 only type S

**POLARITY:** (N° poles) 2 or 4

**SERIE + LENGTH:** A = Leads standard length 1,4 mt. for other leads, see Tables A, B, C

**POWER: (kW)** See Motors Power Tables

**POWER SUPPLY:** T = Three-phase M = Single-phase

**VOLTAGE:** (Hundreds / Ten units / Single units)  
 Example: 400/690 V = 690

**FREQUENCY:** N = 50 Hz S = 60 Hz

**FIXING:** E or 8 (Size 1 / 3 or 4) - 9 (Size 2)

**LEAD TERMINAL:** 0-1-2-3-4-5-X-Y-K

Digit	supply leads	ground lead	protection leads
0	not terminal	not terminal	not terminal
1	hole Ø 6	hole Ø 8	male terminal
2	hole Ø 8	hole Ø 8	male terminal
3	hole Ø 10	hole Ø 10	male terminal
4	hole Ø 12	hole Ø 12	male terminal
5	hole Ø 10	hole Ø 6	male terminal
X	male terminal	hole Ø 8	male terminal
Y	male terminal	male terminal	male terminal
K	male terminal	male terminal	not terminal

Table A Three-phase - N°6 Leads

Digit leads	Leads type	Motor protect.	Marking type	Leads length	Oil protect.
A	GPR	PTC	Letters	1400	-
F	GPR	NCC	Letters	2200	-
G	GPR	PTC	Letters	1400	NCC
J	GPR	PTC	Letters	2200	NCC
K	GPR	PTC	Letters	2200	-
Q	GPR	PTC	Letters	2500	-
P	GPR	NCC	Letters	3000	NCC
L	GPR	NCC	Letters	3000	-
Y	no leads	PTC	-	-	PTC

Table B Three-phase - N°12 Leads

Digit leads	Leads type	Motor protect.	Marking type	Leads length
V	GPR	PTC	Numbers	1400
T	GPR	NCC	Numbers	2200

Table C Single-phase - Standard Leads

Digit	Leads type	Motor protect.	Marking type	Leads length
E	GPR	PTC	Numbers	1400

**Single-phase**

Size	Voltage	Hz	Digit
1 3	230 V	50	230
1 -	200/208 V	60	204
1 3	220/230 V	60	225

**Three-phase N°6 leads:**

Size	Voltage	Hz	Digit
1 2 3	Δ 200 V	50/60	346
1 2 3	Δ 208 V	60	360
1 2 3	Δ 220 V	60	380
1 2 3	Δ 230 V	50/60	400
1 2 3	Δ 240 V	50	415
1 2 3	Δ 240 V	60	415
1 2 3	Δ 254V	60	440
1 2 3	Δ 380 V	50/60	660
1 2 3	Δ 400 V	50/60	690
1 2 3	Δ 415 V	50	720
1 2 3	Δ 415 V	60	720
1 2 3	Δ 420 V	60	726
1 2 3	Δ 440 V	60	760
1 2 3	Δ 460 V	60	800
1 2 3	Δ 480 V	50	830
1 2 3	Δ 480 V	60	830
1 2 3	Δ 500 V	60	865
1 2 3	Δ 575 V	60	995

**Three-phase N°12 leads:**

Size	Voltage	Hz	Digit
1 2	Δ 200/400 V	50	690
1 2	Δ 230/460 V	60	800

Size	1	2	3
kW Three-phase 50 Hz - 2 Poles	147	33	- 15
	16	40	- 2
	20	47	- 3
	24	60	- 44
	29	77	- 6
	-	90	- 77
	-	-	- 9
	-	-	- 95
	-	-	- 11
	-	-	- 12
	-	-	- 13

Size	1	2	4
kW Single-phase 50 Hz	11	132	- 07
	-	-	- 15
	-	-	- 185
	-	-	- 22
	-	-	- 30
	-	-	- 37
	-	-	- 45
	-	-	- 55
	-	-	- 65
	-	-	- 76
	-	-	- 92

Motors Power Tables:  
 Ten units / Single units / Decimals

Size	1	2	3
kW Three-phase 60 Hz - 2 Poles	175	40	- 22
	185	48	- 36
	24	57	- 53
	29	72	- 73
	37	92	- 92
	-	A8	- 11
	-	-	- 132
	-	-	- 15

Size	1	2	4
kW Single-phase 60 Hz - 4 Poles	- 05	- 11	- 15
	- 07	- 15	- 18
	- 12	- 18	- 26
	- 15	- 22	- 37
	- 22	- 26	- 45
	- 26	- 29	- 54
	- 29	- 37	- 66
	- 37	- 44	- 75
	- 48	- 51	- 90
	- 6	- 62	- 11

Power A8 - = 108 kW

**SERIAL NUMBER OF THE MOTOR**

YEAR: Example: 15 = 2015 16 = 2016 17 = 2017

PROGRESSIVE INTERNAL ALPHANUMERIC NUMBER:  
 letters and numbers from 3° to 6° Digit

PROGRESSIVE NUMBER OF SERIES:  
 01 = first motor 99 = ninety ninth motor

**ORDER CONFIRMATION**

Customer's order \_\_\_\_\_  
 Date of delivery \_\_\_\_\_  
 Part Number \_\_\_\_\_  
 Motor code of customer \_\_\_\_\_  
 kW \_\_\_\_ HP \_\_\_\_ VOLT \_\_\_\_ Hz \_\_\_\_

**INVOICE**

Part Number \_\_\_\_\_ Motor code of customer \_\_\_\_\_  
 kW \_\_\_\_ HP \_\_\_\_ VOLT \_\_\_\_ Hz \_\_\_\_  
 Coupling and frame \_\_\_\_\_  
 Motor rating plate \_\_\_\_\_ Customer's order \_\_\_\_\_

**TEST / AUDIT MONTH:**

January = 01 July = 07  
 February = 02 August = 08  
 March = 03 September = 09  
 April = 04 October = 10  
 May = 05 November = 11  
 June = 06 December = 12

**ELMO** SRL Viale Certosa N°8/B - Pavia - ITALY  
 SUBMERSIBLE HYDRAULIC PUMP MOTOR

**CE UK CA**  
IEC 60034 -1

Part N.	Serial N.	Audit
~ Potenza Output kW	Cv HP	Serv. Duty S4
Hz	V	Giri/min. R.P.M.
I nom.	A	cos φ P.F.
Use a non aggressive paraffinic oil		Reliability assured only by using thermal detectors
Max 30 pct overload for 45 sec		

For operating instructions see [www.elmoitaly.com](http://www.elmoitaly.com) PATENTED MADE IN ITALY

YEAR: Example: 2015 = 2015  
 2016 = 2016

CAPACITOR VALUE (single-phase motor only):  
 Example: CAP value in μF followed from max. voltage of working in V

**MOTOR RATING PLATE**

BAR CODE: ELMO Part N. (if request)

BAR CODE: ELMO Serial N. (if request)

IN ANY MOMENT AND WITHOUT NOTICE ELMO CAN CHANGE MANUFACTURING PROCESS, PERFORMANCE FEATURES.

LA ELMO S.r.l. SI RISERVA IL DIRITTO DI APPORTARE QUALSIASI VARIAZIONE SENZA ALCUN PREAVVISO.