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Lowara Rewindable motors L6W - L8W - L10W - L12W Series



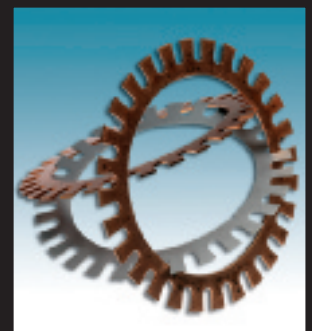
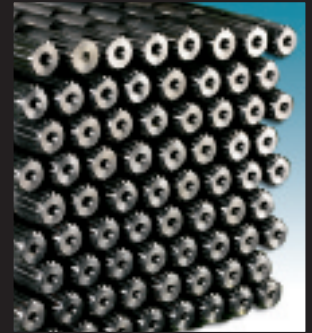
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- Superior thrust bearing design: **performances higher than NEMA Standard**
- **Bidirectional motor operation** at maximum thrust
- Protection class: **IP68**
- **WRAS** approved cables
- **Stator easy to rewind**
- Different versions available on request



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- The thrust bearing is designed to support the maximum thrust of the pump in the worst conditions
- Horizontal and vertical installation*
- Mechanical seal as standard Carbon/Ceramic
- All the thrust bearings are designed to support the maximum axial load
 - 6" up to 22 kW 16000 N
 - 6" from 26 kW to 37 kW 30000 N
 - 8" 50000 N
 - 10" and 12" 65000 N
- The outside pressure is compensated internally by the use of a special membrane which works with a non-return valve that does not allow water to enter the motor from the borehole well.
- The cable supplied complies with WRAS (Water Regulation Advisory Scheme - BS 6920)
- Maximum allowed voltage fluctuation 400 V +/-10%
- **Rewindable stator:** the design of the winding heads are easy to inspect and repair
- Suitable to operate with variable frequency inverter*
- Available on request:
 - High temperature "HT"
 - Sand protection
 - Different materials
 - PT100



* See the limits reported in the instruction manual

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L6W MOTOR SERIES

MOTOR TYPE	RATED POWER		RATED VOLTAGE	OPERATING CHARACTERISTICS AT RATED POWER				DIRECT START		MAX WATER TEMPERATURE	CABLE TYPE		
	THREE-PHASE	kW		HP	RATED CURRENT	rpm	η %	$\cos\phi$	T_s/T_n^*		I_s/I_n	Sec. (mm ²)	DOL
			V	A						°C			
L6W40T405	4	5,5	380	9,62	2845	69,5	0,91	0,96	3,64	25	2,5	2,5	4
			415	8,94	2880	72,2	0,86	1,15	4,27				
L6W55T405	5,5	7,5	380	12,7	2850	74,0	0,89	1,28	4,27	25	2,5	2,5	4
			415	12,3	2885	74,7	0,83	1,54	4,82				
L6W75T405	7,5	10	380	17,1	2830	74,4	0,9	1,18	4,07	25	2,5	2,5	4
			415	16,4	2865	75,7	0,84	1,43	4,65				
L6W93T405	9,3	12,5	380	20,5	2835	76,6	0,89	1,51	4,57	25	2,5	2,5	4
			415	19,8	2870	77,6	0,83	1,82	5,16				
L6W110T405	11	15	380	24,8	2825	76,3	0,89	1,36	4,27	25	2,5	2,5	4
			415	24,0	2860	77,4	0,82	1,64	4,81				
L6W130T405	13	17,5	380	28,7	2820	76,6	0,9	1,37	4,38	25	2,5	2,5	4
			415	27,5	2860	77,9	0,84	1,66	4,99				
L6W150T405	15	20	380	32,4	2830	76,1	0,89	1,62	4,83	25	4	2,5	4
			415	31,1	2865	80,3	0,84	1,96	5,48				
L6W185T405	18,5	25	380	40,0	2835	80,3	0,87	1,80	5,10	25	6	2,5	4
			415	39,6	2865	80,4	0,81	2,17	5,63				
L6W220T405	22	30	380	48,5	2835	78,7	0,88	1,05	4,59	25	6	2,5	4
			415	45,4	2875	81,8	0,82	1,26	5,30				
L6W260T405	26	35	380	56,2	2865	80,2	0,88	1,03	4,57	25	6	4	4
			415	53,4	2890	81,9	0,83	1,24	5,25				
L6W300T405	30	40	380	64,7	2855	80,5	0,88	1,08	4,59	25	10	4	4
			415	61,4	2885	82,1	0,83	1,30	5,28				
L6W370T405	37	50	380	81,7	2840	78,6	0,88	1,00	4,24	20	10	6	4
			415	78,8	2875	79,8	0,82	1,20	4,81				

* T_s/T_n = ratio between starting torque and nominal torque.

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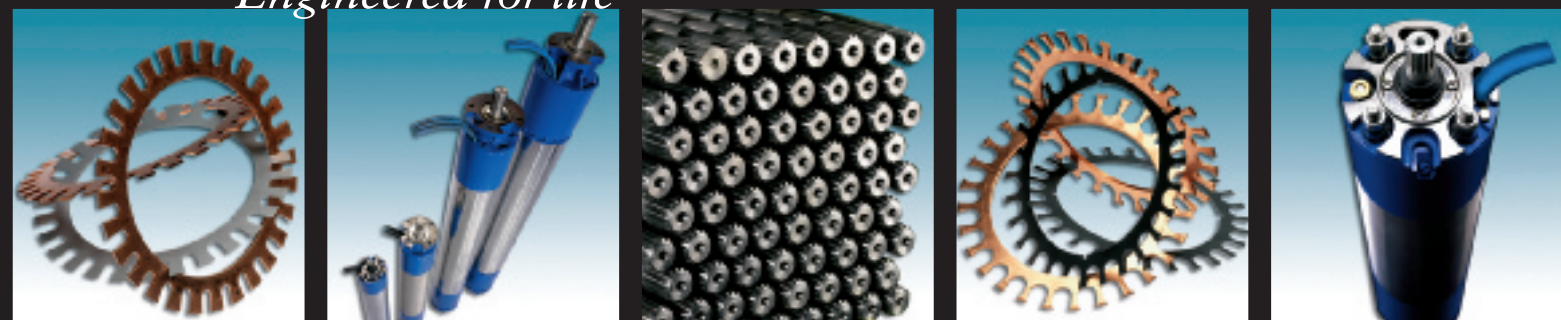
L10W MOTOR SERIES

MOTOR TYPE	RATED POWER		RATED VOLTAGE	OPERATING CHARACTERISTICS AT RATED POWER				DIRECT START		MAX WATER TEMPERATURE	CABLE TYPE		
	THREE-PHASE	kW		HP	RATED CURRENT	rpm	η %	$\cos\phi$	T_s/T_n^*		I_s/I_n	Sec. (mm ²)	DOL
			V	A						°C			
L10W930T405	93	125	380	191	2895	83,0	0,87	1,02	5,14	25	35	25	5
			415	180	2915	84,0	0,84	1,21	5,95				
L10W1100T405	110	150	380	235	2900	83,5	0,86	1,20	4,77	25	50	25	5
			415	220	2920	84,5	0,82	1,43	5,57				
L10W1300T405	130	175	380	270	2895	84,0	0,86	1,29	4,84	25	50	25	5
			415	255	2915	85,5	0,83	1,54	5,60				
L10W1500T405	150	200	380	308	2905	83,0	0,86	1,26	4,77	25	70	25	5
			415	285	2925	84,0	0,84	1,50	5,63				

* T_s/T_n = ratio between starting torque and nominal torque.

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L8W MOTOR SERIES

MOTOR TYPE	RATED POWER		RATED VOLTAGE	OPERATING CHARACTERISTICS AT RATED POWER				DIRECT START		MAX WATER TEMPERATURE	CABLE TYPE		
				RATED CURRENT							Sec. (mm ²)		
	THREE-PHASE	kW		HP	V	A	rpm	η%	cosφ		Ts/Tn*	Is/In	°C
L8W300T405	30	40	380	65	2905	83,0	0,85	1,20	4,67	25	10	6	5
			415	59	2900	83,0	0,84	1,09	4,70				
L8W370T405	37	50	380	81	2840	80,5	0,87	1,04	4,19	25	10	6	5
			415	76	2870	81,5	0,83	1,23	4,88				
L8W450T405	45	60	380	92	2850	82,0	0,87	0,92	3,72	25	16	6	5
			415	88,5	2880	83,5	0,83	1,09	4,23				
L8W520T405	52	70	380	110	2840	82,0	0,86	1,14	3,90	25	16	6	5
			415	104	2885	82,5	0,82	1,16	4,50				
L8W550T405	55	75	380	118	2840	82,0	0,87	1,26	3,57	25	16	10	5
			415	110	2885	82,5	0,83	1,27	4,19				
L8W600T405	60	80	380	124	2855	82,0	0,87	1,12	4,18	25	16	10	5
			415	118	2885	83,5	0,83	1,33	4,80				
L8W670T405	67	90	380	138	2850	82,5	0,88	0,98	4,22	25	16	10	5
			415	132	2885	83,5	0,83	1,16	4,82				
L8W750T405	75	100	380	156	2860	82,0	0,87	0,92	4,10	25	25	16	5
			415	148	2885	83,0	0,82	1,10	4,72				
L8W830T405	83	110	380	172	2860	83,0	0,87	0,91	4,12	25	35	16	5
			415	163	2880	84,0	0,82	1,08	4,66				
L8W930T405	93	125	380	192	2850	83,0	0,87	0,84	3,38	25	35	16	5
			415	180	2885	84,0	0,83	1,00	4,30				

* Ts/Tn = ratio between starting torque and nominal torque.

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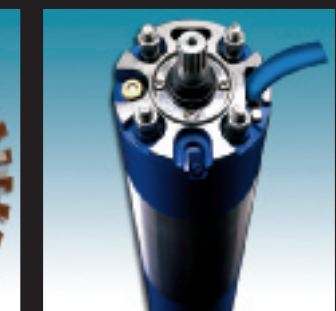
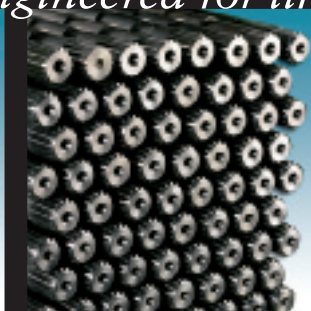
L12W MOTOR SERIES

MOTOR TYPE	RATED POWER		RATED VOLTAGE	OPERATING CHARACTERISTICS AT RATED POWER				DIRECT START		MAX WATER TEMPERATURE	CABLE TYPE		
				RATED CURRENT							Sec. (mm ²)		
	THREE-PHASE	kW		HP	V	A	rpm	η%	cosφ		Ts/Tn*	Is/In	°C
L12W1850T405	185	250	380	380	2895	84,0	0,87	1,28	5,57	25	70	50	5
			415	360	2915	84,5	0,86	1,53	6,40				
L12W2200T405	220	300	380	470	2910	84,5	0,86	1,04	4,60	25	95	50	5
			415	435	2930	85,5	0,83	1,24	5,42				
L12W2600T405	260	350	380	525	2875	85,0	0,87	0,96	4,10	25	120	50	5
			415	498	2910	86,0	0,83	1,15	4,67				
L12W3000T405	300	400	380	620	2880	85,0	0,87	0,90	4,10	25	2x70	70	5
			415	570	2910	86,0	0,84	1,08	4,90				

* Ts/Tn = ratio between starting torque and nominal torque.

l12w-2p50_a_te

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L6W-L8W-L10W-L12W MOTORS SUBMERSIBLE REWINDABLE LIQUID COOLED MOTOR - DIAMETERS 6" TO 12" - LW SERIES.

The choice of materials and the **robust design** ensures optimum operating performance, superior quality, reliability and ease of installation.

SPECIFICATIONS

- Shaft extension and coupling dimensions according to **NEMA** standards (6" and 8"). 10"-12" coupling dimensions see technical documentation.
- **Rewindable stator.**
- Class **Y insulation** (standard).
- Protection class: **IP68.**
- Compensating diaphragm for internal liquid expansion.
- Kingsbury bi-directional axial thrust bearing.
- Sandproof **mechanical seal.**
- Maximum **immersion depth: 350 m.**
- Maximum number of **starts per hour** evenly distributed:
 - 15 (6")
 - 10 (8")
 - 8 (10")
 - 4 (12")
- Maximum permissible line **voltage variations:**
 - 230 V ± 10%
 - 400 V ± 10%

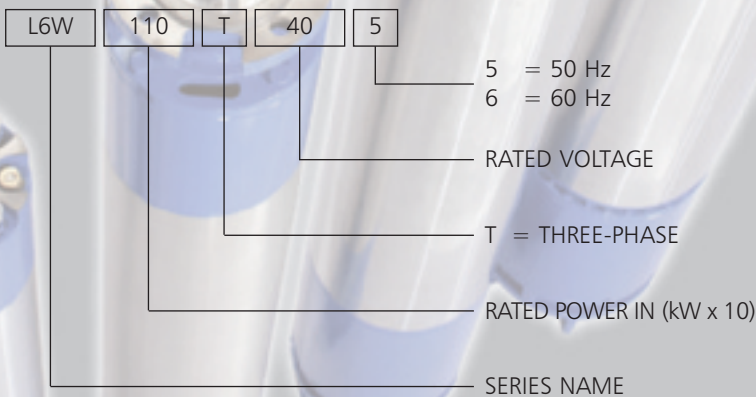
• Axial thrust:

- 6" up to 22 kW - 16000 N
- 6" from 26 kW to 37 kW - 30000 N
- 8" - 50000 N
- 10"-12" - 65000 N

VERSIONS

- 6" from 4 kW to 37 kW
 - 8" from 30 kW to 93 kW
 - 10" from 93 kW to 150 kW
 - 12" from 185 kW to 300 kW
- Different voltages available on request.

IDENTIFICATION CODE



EXAMPLE: L6W110T405

L6W MOTOR:
RATED POWER 11 kW; THREE-PHASE; RATED VOLTAGE 400 V; 50 Hz



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