

QUALITY Submersible Motor in AISI 304

Type OP4

The EBARA 4" submersible motors series OP4 represents a new standard in quality and refined technology. The improved mechanical design, combined with the most optimised efficiency in electromagnetic design assure reliability, durability and efficient operation in all duty conditions. Thanks to the simple construction components and motor can be repaired with simple tools.

RELIABLE POWER FOR PUMPS

- Filled with special food grade lubricant.
- The OP4 Series is the evolution of the 4" Submersible Rewindable Motor.
- The special design allow an easy access and replacement of all parts and allow quick servicing of the motor.

TECHNICAL FEATURES

- Motor casing, shaft and bottom end made in Stainless Steel AISI 304.
- Axial and radial thrust ball bearing.
- Standard mechanical seal graphite/ceramic.
- Optional seal type SiC
- Special cooling fluid for a better lubricant effect to increase life of moving parts. The liquid with its high thermal capacity gives the motor superior overload capabilities.
- Oversize compensation diaphragm and sand slinger protection.
- Insulation: Class F
- Removable cable connector.
- Nema standard coupling dimensions.

OPERATING LIMITS

- Maximum voltage fluctuation admissible versus nominal rated voltage: +6% -10%.
- Maximum water temperature: 35°C with at least 0.08 m/s of water flow speed
- Maximum motor starting per hour: 30 times
- Axial thrust : 1500N from 0.37kW up to 2.2kW
2500N from 2.2kW up to 5.5kW
4400N from 2.2kW up to 7.5kW
5000N from 2.2kW up to 5.5kW
- Maximum immersion depth: 150m

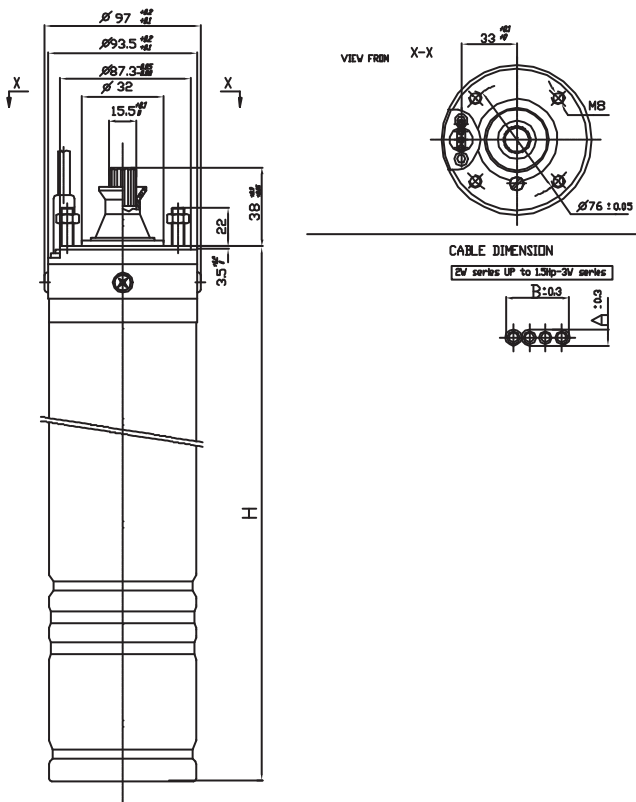
VERSION

- **Single phase** : - from 0.37kW up to 3.7kW 220-230V 50Hz
- from 0.37kW up to 3.7kW 240V 50Hz
- **Three phase** : - from 0.37kW up to 7.5kW 380-400V 50Hz
- from 0.37kW up to 7.5kW 415V 50Hz



DIMENSION

OP4" - TYPE OPM / OPT



Dimension

Type	kW	HP	Axial thrust	H mm	Cable			Weight kg					
					Length	Sez. mm ²	A mm		B mm				
OPM 050	0.37	0.5	1500 N	325	1.75	1.5	5.6	18.8	7				
OPM 075	0.55	0.75		325	1.75				7.6				
OPM 100	0.75	1		350	1.75				8.7				
OPM 150	1.1	1.5		385	1.75				10.3				
OPM 200	1.5	2		420	1.75				12				
OPM 300	2.2	3	4400 N	470	2.5				14.2				
OPM 300	2.2	3		520	2.5				15.5				
OPM 500	3.7	5		580	4				21.6				
OPT 050	0.37	0.5		1500 N	325				1.75	2.0	6.0	19.5	6.5
OPT 075	0.55	0.75			325				1.75				7
OPT 100	0.75	1	325		1.75	7.6							
OPT 150	1.1	1.5	350		1.75	8.7							
OPT 200	1.5	2	385		1.75	10.4							
OPT 300	2.2	3	420		2.5	12							
OPT 300	2.2	3	2500 N		383	2.5	10.9						
OPT 300	2.2	3	4400 N		470	2.5	14.2						
OPT 400	3	4	2500 N		418	2.5	11.9						
OPT 400	3	4	4400 N		550	2.5	21.5						
OPT 550	4	5.5	2500 N	468	2.5	13.4							
OPT 550	4	5.5	4400 N	580	2.5	22							
OPT 750	5.5	7.5	2500 N	538	3	15.5							
OPT 750	5.5	7.5	4400 N	650	4	22.4							
OPT 1000	7.5	10	4400 N	810	4	27							

TECHNICAL DATA 50Hz

Type		SINGLE PHASE															
		Thrust Load N	Weight Kg	H mm	kW	Hp	In Amp	Istart	RPM	Cos·	Ts/Tn	EFF%	µF	Rm [·]	Ra [·]	T _{emp} °C	Nominal torque [Nm]
Single phase 240V 50 Hz	OPM 050	1500	7	325	0.37	0.5	3.3	10	2850	0.97	0.70	53	20	9.2	19.7	20	1.24
	OPM 075		7.6	325	0.55	0.75	4.3	13.1	2830	0.94	0.63	58	25	7.2	10.1	20	1.85
	OPM 100		8.7	350	0.75	1	5.6	18.1	2830	0.96	0.62	63	35	4.6	8	20	2.53
	OPM 150		10.3	385	1.1	1.5	7.5	24	2840	0.97	0.62	64	40	3.2	6.3	20	3.70
	OPM 200		12	420	1.5	2	10.1	33	2840	0.98	0.62	66	60	2.7	5.1	20	5.04
	OPM 300		1500	14.2	470	2.2	3	13.7	42	2850	0.97	0.64	66	80	1.8	3.3	20
220/240	OPM500	4400	22	580	3.7	5	24/22	125	2840	0.95	0.5	69	100	1.0	1.5	20	12.44

Type		THREE PHASE													
		Thrust Load N	Weight Kg	H mm	kW	Hp	In Amp	Istart	RPM	Cos·	Ts/Tn	EFF%	R [·]	T _{emp} °C	Nominal torque [Nm]
Three Phase 415V 50Hz	OPT 050	1500	6.5	325	0.37	0.5	1.1	4	2830	0.71	2.7	58	35.7	20	1.25
	OPT 075		7		0.55	0.75	1.6	6	2830	0.72	2.9	62	27.3	20	1.85
	OPT 100		7.6		0.75	1	2.2	9	2830	0.75	3.1	64	19.7	20	2.53
	OPT 150		8.7	350	1.1	1.5	3.3	13	2820	0.74	3.2	65	14.1	20	3.72
	OPT 200		10.4	385	1.5	2	4.2	16	2830	0.74	3.2	65	9.3	20	5.06
	OPT 300		1500	12	420	2.2	3	5.6	24	2820	0.75	3.2	66	7.5	20
	OPT 300	2500	11.0	383	5.6			23	2850	0.82	2.9	78	6.2	20	7.37
	OPT 300	5000	11.2	383	5.6			23	2850	0.82	2.9	78	6.2	20	7.37
	OPT 400	2500	12.8	470	3	4	5.6	24	2820	0.78	3.1	72	7.5	20	7.45
	OPT 400	4400	14.2	470			7.7	30	2860	0.80	2.8	78	6.2	20	10.00
	OPT 400	5000	13.1	418			7.7	30	2860	0.80	2.8	78	6.2	20	10.00
	OPT 550	4400	19	550	4	5.5	7.3	33	2840	0.76	3.2	75	4.6	20	10.10
	OPT 550	2500	15.3	468			9.7	45	2825	0.82	3.0	78	4.6	20	13.52
	OPT 550	5000	15.6	468			9.7	45	2825	0.82	3.0	78	4.6	20	13.52
	OPT 750	4400	20.5	580	5.5	7.5	9.5	45	2830	0.79	3.3	76	3.8	20	13.45
	OPT 750	2500	18.6	538			13.5	55	2820	0.83	3.0	78	3.5	20	18.62
	OPT 750	5000	18.9	538			13.5	55	2820	0.83	3.0	78	3.5	20	18.62
	OPT 1000	4400	22.4	650	7.5	10	13.0	56	2830	0.78	3.3	76	2.7	20	18.55
OPT 1000	4400	27	810	7.5			10	17.0	70	2820	0.83	3.2	77	1.9	20

*All specifications are subject to change without prior notice.



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