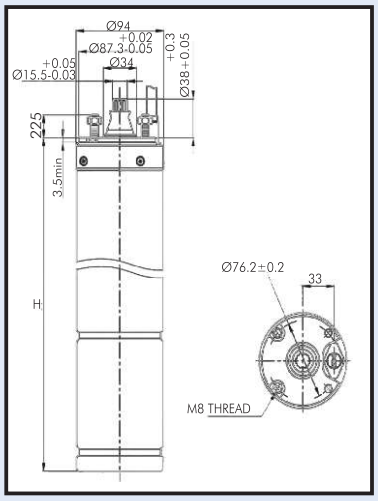
Submersible Motors

DSM4



Material Specification

Component	Material
Motor shell	304 stainless steel
Sand guard	NBR
Cable connector	EPDM
Upper end bracket cover	304 stainless steel
Upper end bracket	Zinc plated cast iron
Mechanical Seal	Ceramic /Carbon
Shaft (0.5-3HP)	304 stainless steel
Shaft (4 -10HP)	630 stainless steel
Rotor (0.5-3HP)	Aluminium
Rotor (4-10HP)	Copper
Connector	PPS
Winding	Copper
Lower end bracket	Aluminium
Lower end bracket cover	304 stainless steel
Diaphragm	NBR

DAYLIFF rewindable 4"oil filled submersible motors are specially designed to give exceptional reliability and efficiency with all submersible borehole pumps.

Features

- Stators are more resistant to failure due to the special high efficiency design and the ability to operate with wider voltage fluctuations.
- Special stator design provides high torque starting, especially in single phase versions.
- Motor casing, shaft, upper cover and bottom end made from stainless steel, the upper housing from zinc plated cast iron.
- Removable waterproof tail cable connection and CE approved cable suitable for potable water.
- Non-toxic premium quality FDA approved colourless oil.
- Standard NEMA 4" flange suitable for use with all types of pumps.
- Protection: IP68
- Insulation Class: E
- Voltage:1x220V/240V, 50Hz/3x400V/415V,50Hz

Operating Parameters

Max Voltage Variation: ±10%
Min Water Pass Flow Rate: 0.2m/sec
Max Starts/Hr: 40
Max Immersion Depth: 200m
Max Water Temperature: 35°C

Motor Data

Single Phase

Power		In	Istart	Efficiency	PF	Nn	Thrust Load	Capacitor	Tail Cable		H	Weight
kW	HP	A	A	%	CosØ	RPM	N	μF	mm2	m	mm	Kg
0.37	0.5	3.7	12	53	0.90	2840	2000	16	1.5	1.7	346	7.3
0.55	0.75	5.0	15	62	0.90	2840	2000	20	1.5	1.7	365	8.2
0.75	1	6.2	20	64	0.90	2840	2000	25	1.5	1.7	380	8.8
1.1	1.5	8.1	32	68	0.90	2840	2000	35	1.5	1.7	405	10.0
1.5	2	10.4	38	73	0.90	2840	2000	40	1.5	1.7	440	11.5
2.2	3	15.0	46	72	0.90	2840	3000	55	1.5	2.5	495	14.0

Three Phase

Power		In	Istart	Efficiency	PF	Nn	Thrust Load	Tail Cable		H	Weight
kW	HP	A	A	%	CosØ	RPM	N	mm2	m	mm	Kg
0.37	0.5	1.6	4.5	60	0.80	2820	2000	1.5	1.7	330	6.7
0.55	0.75	1.9	6.7	64	0.80	2840	2000	1.5	1.7	346	7.4
0.75	1	2.3	8.9	66	0.80	2840	2000	1.5	1.7	365	8.2
1.1	1.5	3.1	12	70	0.80	2850	2000	1.5	1.7	380	8.9
1.5	2	4.0	14	72	0.80	2850	2000	1.5	1.7	405	10.0
2.2	3	5.6	22	71	0.85	2850	3000	1.5	2.5	440	11.6
3.0	4.0	7.4	43	73	0.85	2840	5000	2.0	2.5	516	15.2
4.0	5.5	9.8	49	75	0.85	2850	5000	2.0	2.5	607	19.5
5.5	7.5	13.7	71	76	0.85	2850	5000	2.0	2.5	683	23.1
7.5	10	18.9	96	76	0.85	2850	5000	2.0	2.5	783	27.5