



**DSM**  
Submersible Motor



DAYLIFF DSM submersible motors are specifically designed to give exceptional reliability and efficiency in all borehole pumping applications. Features include:-

- 4" oil filled type motor with FDA approved colourless oil
- 6" canned type motor with resin filled stator for extended motor life
- Largely stainless steel AISI 304 construction with cast iron top and bottom bearings
- Water lubricated thrust and radial bearings
- Reinforced netted Nylon diaphragm for internal motor pressure compensation
- Thermal overload for motor protection
- Standard NEMA flanges for use with all types of pumps

**Protection:** IP68

**Insulation Class:** F

**Voltage:** 1x220V/240V,50Hz/ 3x380V/415V, 50Hz

**OPERATING PARAMETERS**

**Max Voltage Variation:** ± 10%

**Max Starts/Hr:** 20

**Max Water Temperature:** 35°C

**Min Water Pass Flow Rate:** 0.2m/sec

**Max Immersion Depth:** 200m-4" and 300m-6"

**Installation:** Vertical/horizontal with a tilt angle > 50

**MOTOR DATA**

**SINGLE PHASE**

Power		In	Istart	Efficiency	PF	RPM	Capacitor	Tail Cable		H	Weight
kW	HP	(A)	(A)	%	CosØ		µF	mm <sup>2</sup>	m	(mm)	
0.37	0.5	3.7	12	53	0.90	2840	16	1.5	1.7	346	7
0.55	0.75	5.0	15	62			20			365	8
0.75	1	6.2	20	64			25			380	9
1.1	1.5	8.1	32	68			35			405	10
1.5	2	10.4	38	73			40			440	12
2.2	3	15.0	46	72			55			495	14

**THREE PHASE**

Power		In	Istart	Efficiency	PF	RPM	Thrust Load (N)	Tail Cable		H	Dia (mm)	Weight (Kg)			
kW	HP	(A)	(A)	(%)	(CosØ)			mm <sup>2</sup>	m	(mm)					
0.37	0.5	1.6	4.5	60	0.80	2820	2000	1.5	1.7	330	94	7			
0.55	0.75	1.9	6.7	64		2840				346		7			
0.75	1	2.3	8.9	66		2850				3000		2.0	2.5	365	8
1.1	1.5	3.1	12	70										380	9
1.5	2	4.0	14	72										405	10
2.2	3	5.6	22	71		0.85				2840		5000	2.0	2.5	440
3.0	4.0	7.4	43	73	516		15								
4.0	5.5	9.8	49	75	607		20								
5.5	7.5	13.7	71	76	683		23								
7.5	10	18.9	96	76	783		28								
5.5	7.5	12.7	59.5	79	2837		627	51							
7.5	10	16.5	67.5	79	2826	662	55								
9.2	12.5	21.5	62.5	78	2803	11000	4.0	2.8	704	53					
11	15	24.2	60.7	77	2802	15500	4.0	4.0	727	61					
13	17.5	28.9	138.7	79	2803	11000	5.0	3.0	804	64					
15	20	32	142.3	80	2837	15500	4.0	4.0	787	67					
18.5	25	40	101.2	81	2814	15500	6.0	4.0	857	75					
22	30	47	139.4	77	2720	2720	6.0	4.0	907	80					
26	36	58	301	82	2003	11000	5.0	5.0	1004	101					
30	40	64.1	320	83	0.84	2848	8.4		1047	102					
37	50	72.4	275	82	0.85	2850			1417	117					

**MATERIAL SPECIFICATION**

Component	Material
Motor shell	304 stainless steel
Sand guard	NBR
Cable connector	4"-EPDM, 6"-XLPE
Upper end bracket cover	4"-304 stainless steel, 6"-Cast Iron
Upper end bracket	Zinc plated cast iron
Mechanical Seal	Ceramic /Carbon
Shaft (0.5-10HP)	4"-304 stainless steel, 6"-AISI 420
Rotor (0.5-3HP)	4"-Aluminium
Rotor (4-10HP)	4"-Copper
Winding	Copper
Lower end bracket	4"-Aluminium, 6"-Cast Iron
Lower end bracket cover	4"-304 stainless steel, 6"-Cast Iron
Diaphragm	NBR