

Scot builds many DC Motorpumps™. Brush life is a prime consideration. Two pole motors have a shorter brush life than four pole motors. Applications for continuous duty should use four pole motors if possible. Two pole average brush life is approximately 2000 – 4000 hours. Four pole average brush life is appreciably longer.

- DC 2 pole = 3000 RPM
- DC 4 pole = 1800 RPM

Permanent magnet design DC motors will run in one direction with the positive line to one lead and the opposite rotation when the leads are reversed. This reversing does not damage a permanent magnet design unless the load connected to the motor cannot operate in the reverse direction.

Scot DC motors are TENV (totally enclosed non-ventilated) or TEFC (totally enclosed fan cooled).

The motor leads are marked by the factory which power line (positive or negative) should be connected to each motor lead.

Group 48000 DC Motorpumps have a 7/8 inch bronze shaft and a 7/8 inch seal.

Group 57000 Motorpumps have a 1-1/4 inch bronze shaft and a 1-1/4 inch seal.

Impellers are keyed to the Bronze shaft for easy removal.

3000 RPM 2 pole DC models have the same curve as the 50 Hz 2 pole model with AC motor.

1800 RPM 4 pole models have the same curve

Example of model number
48372-2DC24

Pump	Pole 2 or 4	Motor	Volts 12 or 24
48372	2	DC	24

Click below to view Typical Spec Sheet

[48372-2DC](#)



DC Motors 2 Pole

HP	Volts	FL Amps	Poles	RPM	Encl
1/2	12	44	2	3000	TENV
1/2	24	20	2	3000	TENV
3/4	12	58	2	3000	TENV
3/4	24	30	2	3000	TEFC
1	24	40	2	3000	TEFC
1-1/2	24	65	2	3000	TEFC

DC Motors 4 Pole

HP	Volts	FL Amps	Poles	RPM	Encl
1/2	12	39	4	1800	TENV
3/4	12	58	4	1800	TEFC
1	12	39	4	1800	TEFC
1-1/2	24	60	4	1800	TEFC
2	24	70	4	1800	TEFC

The following motorpumps are available with DC Motors from the list above

Model Number Motorpump	Suct Size	Disc Size	Poles	Volts	Max HP
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2 Pole 12 and 24 Volt

48372-2DC	1-1/4	1	2	12	1/2
48377-2DC	1-1/2	1-1/2	2	12	3/4
48377-2DC	1-1/2	1-1/2	2	24	3/4
48378-2DC	1-1/2	1-1/2	2	12	2
57016-2DC	2	1-1/2	2	24	2
48382-2DC	2	2	2	24	1-1/2
57017-2DC	2	2	2	24	2
57121-2DC	2-1/2	2-1/2	2	24	2

4 Pole 12 and 24 Volt

48378-4DC	1-1/2	1-1/2	4	24	1/2
57016-4DC	2	1-1/2	4	12	1/2
48382-4DC	2	2	4	12	1/2
57017-4DC	2	2	4	12	3/4
57017-4DC	2	2	4	24	3/4
57122-4DC	2-1/2	2-1/2	4	12	3/4
57121-4DC	2-1/2	2-1/2	4	24	1-1/2
57122-4DC	2-1/2	2-1/2	4	24	1-1/2