

SIMFLO®

453 SERIES

4" 3-WIRE ENCAPSULATED SUBMERSIBLE MOTOR

Technical Features

- Encapsulated resin-filled stator
- Upper bracket: Cast iron with 304SS cover cap
- Motor shell: 304SS
- Motor shaft: 304SS
- Shaft end and Coupling: NEMA Standard
- Kingsbury thrust bearing
- Winding: enameled copper – Class F insulation
- Degree of protection: IP68/Class B insulation
- Max temp. 95°F with water cooling flow min. 0.27 ft/s
- Max depth immersion: 490 ft
- No. of starts per hour: max 30 at regular intervals
- Labyrinth seal, sand slinger, and lip seal
- Coolant: water and propylene glycol
- Motor lead length: 5.75 to 13 ft according to motor size (3 wires plus ground)
- Voltage variation: +6 / -10%
- Suitable for horizontal operation

Motor range versions

- Single Phase: 0.5 hp to 5 hp, 230V 60Hz
- Three Phase: 0.5 hp to 10 hp, 230/460V 60Hz
- Axial thrust: 1500 N from 0.5 hp to 1 hp
3000 N from 1.5 hp to 3 hp
6500 N from 5 hp to 10 hp
- Other voltage and frequencies available upon request



UL CLASSIFIED PRODUCT



SINGLE PHASE

60Hz.

	Thrust Load N	Weight lb	H in	Hp	kW	In	Istart	Imax	RPM	Cosφ	EFF%	Crun μF	Cstart μF	S.F.	Ω	Ω
						Amp									start	main
230 V	MTS.50CO.216C.SS3	1500	16.1	10.24	0.5	0.37	5.5	22	6.4	3540	0.7	57	59-71	1.60	17.74	5.01
	MTS.75CO.216C.SS3	1500	16.8	10.43	0.75	0.55	7	32	9.3	3520	0.7	62	86-103	1.50	12.30	3.70
	MTS.10DO.216C.SS3	1500	20.1	12.00	1	0.75	8.5	40	12.0	3510	0.7	58	105-126	1.40	7.78	2.44
	MTS.15DO.216C.SS3	1500	24.7	13.39	1.5	1.1	10.1	49	13.0	3500	0.82	65	116-125	1.30	7.12	2.17
	MTS.20DO.216C.SS3	3000	30.9	14.76	2	1.5	11.6	52	15.0	3500	0.84	67	116-125	1.25	5.89	1.72
	MTS.30DO.216C.SS3	3000	36.2	16.93	3	2.2	14.8	68	16.9	3470	0.96	67	208-250	1.15	3.42	1.49
MTS.50DO.216C.SS3	6500	64.6	26.57	5	3.7	25.5	88	27.8	3580	0.91	69	290-310	1.15	1.78	0.79	

THREE PHASE

60Hz.

	Thrust Load N	Weight lb	H in	Hp	kW	In	Istart	Imax	RPM	Cosφ	EFF%	Starting torque Nm	S.F.	Ω	
						Amp								start	main
230 V	MTS.50CO.236C.SS3	1500	12.8	9.25	0.5	0.37	2.3	10.4	3.5	3510	0.70	62	2.6	1.60	11.22
	MTS.75CO.236C.SS3	1500	15.4	9.84	0.75	0.55	3.5	17.3	5.2	3510	0.70	64	4.8	1.50	5.79
	MTS.10DO.236C.SS3	1500	18.3	10.43	1	0.75	4.5	22.5	6.2	3510	0.70	66	6.51	1.40	4.56
	MTS.15DO.236C.SS3	1500	24.0	11.61	1.5	1.1	5.7	31.2	7.3	3480	0.71	71	9.3	1.30	3.4
	MTS.20DO.236C.SS3	3000	25.1	13.39	2	1.5	7.3	43.3	9.0	3410	0.80	68	13.02	1.25	2.45
	MTS.30DO.236C.SS3	3000	31.3	14.76	3	2.2	10.9	60.6	12.5	3400	0.76	70	17.69	1.15	1.59
	MTS.55DO.236C.SS3	6500	51.6	21.85	5.5	4	17.7	95.3	20.8	3440	0.76	78	33.3	1.15	1.16
	MTS.75DO.236C.SS3	6500	64.8	26.57	7.5	5.5	25.1	142.0	30.0	3440	0.78	73	48.64	1.15	0.66
	MTS.0100.236C.SS3	6500	74.5	30.12	10	7.5	38.1	176.7	43.3	3490	0.72	74	60.61	1.15	0.41
	MTS.50CO.236D.SS3	1500	12.8	9.25	0.5	0.37	1.2	6.8	1.60	3510	0.70	60	2.6	1.60	39.7
460 V	MTS.75CO.236D.SS3	1500	15.4	9.84	0.75	0.55	1.6	10.5	1.95	3500	0.70	65	4.8	1.50	26.3
	MTS.10DO.236D.SS3	1500	18.3	10.43	1	0.75	2	12.5	2.50	3490	0.70	67	6.51	1.40	24
	MTS.15DO.236D.SS3	1500	24.0	11.61	1.5	1.1	2.8	15	3.30	3475	0.71	69	9.3	1.30	14.17
	MTS.20DO.236D.SS3	3000	25.1	13.39	2	1.5	3.5	22	4.20	3470	0.76	71	13.02	1.25	10.54
	MTS.30DO.236D.SS3	3000	31.3	14.76	3	2.2	4.9	30.5	5.50	3450	0.75	75	17.69	1.15	7.8
	MTS.55DO.236D.SS3	6500	51.6	21.85	5.5	4	9	62	9.90	3470	0.76	77	33.3	1.15	3.97
	MTS.75DO.236D.SS3	6500	64.8	26.57	7.5	5.5	12	77	13.30	3470	0.78	77	48.64	1.15	3.3
	MTS.0100.236D.SS3	6500	74.5	30.12	10	7.5	16.2	95.0	18.50	3460	0.78	77	60.61	1.15	2.2

