

APPLICATIONS

STAIRS rewindable 4" oil filled submersible motors are designed to operate dependably in 4" and larger boreholes.

GENERAL SPECIFICATIONS

Mounting flange	4" NEMA standard
Degree of protection	IP 68
Insulation class	F
Single phase motors	0.37 kW up to 4.0 kW
Three phase motors	0.37 kW up to 7.5 kW
Standard voltages	1-207-244 (50Hz) 1-100-116 or 254 or 207-244(60Hz) 3-207-244 or 360-424(50Hz) 3-360-424 or 207-244(60Hz)
Cable length	1.7 M 0.37 kW up to 1.5 kW 2.5 M 2.2 kW up to 7.5 kW

OPERATING PARAMETERS

Max voltage variation	+ 10% / - 10%
Max starts / h	40
Max water temperature	35°C
Flow rate	0.2m/sec
Axial Thrust	2000N from 0.37 kW up to 1.5 kW 2.2 kW 5000N from 3 kW up to 7.5 kW
Max immersion depth	200m

FEATURES

- Removable waterproof cable connector for easy maintenance operations.
- Cable materials are CE approved (for potable water applications).
- Non-toxic oil - Premium quality, colorless white oil.
- Special stator design for high starting torque in single-phase models.
- Unique single-phase electrical design for PSC starting, and starting capacitor + PSC starting.
- Motor casing, shaft, upper cover and bottom end made of stainless steel.
- Zinc-plated cast iron upper bracket.
- Stators are designed for higher efficiency and the ability to operate within wider voltage fluctuations.
- Use of high quality European made components such as mechanical seal, cable connectors, copper winding wires and insulations.
- All motors 100% tested.

TECHNICAL DATA

SINGLE-PHASE MOTORS 50 Hz PSC

Motor Type	P2	Voltage	In	Istart	Efficiency	PF	Nn	Thrust Load	Capacitor	Cable			
3-Wire	2-Wire	KW	HP	V	A	A	%	RPM	N	µF	mm2	m	
4R201	4R201M	0.37	0.5	230	3.7	12	53	0.90	2840	2000	16	1.5	1.7
4R202	4R202M	0.55	0.75	230	5.0	15	62	0.90	2840	2000	20	1.5	1.7
4R203	4R203M	0.75	1	230	6.2	20	64	0.90	2840	2000	25	1.5	1.7
4R204	4R204M	1.1	1.5	230	9.2	22	68	0.90	2840	2000	35	1.5	1.7
4R206	4R206M	1.5	2	230	10.4	38	73	0.90	2840	2000	40	1.5	1.7
4R307	N/A	2.2	3	230	15.0	46	72	0.90	2840	3000	55	1.5	2.5
4R508	N/A	3	4	230	21.7	61	74	0.90	2840	3000	70	1.5	2.5
4R509	N/A	4	5.5	230	28.1	85	70	0.90	2840	5000	85	2	2.5

THREE-PHASE MOTORS 50 HZ DOL

Motor Type	P2	V	Istart	Efficiency	PF	Nn	Thrust Load	Capacitor	Cable		
3-Wire	KW	HP	V	A	%	RPM	N	µF	mm2	m	
4R222	0.37	0.5	230	2.9	7.8	60	0.80	2870	2000	1.5	1.7
4R223	0.55	0.75	230	3.4	11.6	64	0.80	2850	2000	1.5	1.7
4R224	0.75	1	230	4.0	15	66	0.80	2840	2000	1.5	1.7
4R225	1.1	1.5	230	5.3	21	70	0.80	2850	2000	1.5	1.7
4R226	1.5	2	230	6.9	24	72	0.80	2850	2000	1.5	1.7
4R328	2.2	3	230	9.7	38	71	0.85	2850	3000	1.5	1.7
4R529	3	4	230	12.8	74	73	0.85	2850	5000	2.0	2.5
4R530	4	5.5	230	17.1	84	75	0.85	2850	5000	2.0	2.5
4R531	5.5	7.5	230	23.7	123	76	0.85	2850	5000	2.0	2.5
4R533	7.5	10	230	32.8	186	76	0.85	2850	5000	2.0	2.5
4R210	0.37	0.5	400	1.6	4.5	60	0.80	2820	2000	1.5	1.7
4R211	0.55	0.75	400	1.9	6.7	64	0.80	2840	2000	1.5	1.7
4R212	0.75	1	400	2.3	8.9	66	0.80	2840	2000	1.5	1.7
4R213	1.1	1.5	400	3.1	12	70	0.80	2850	2000	1.5	1.7
4R214	1.5	2	400	3.6	15	72	0.80	2850	2000	1.5	1.7
4R316	2.2	3	400	5.6	22	71	0.85	2850	3000	1.5	1.7
4R517	3	4	400	7.4	43	73	0.85	2840	5000	2.0	2.5
4R518	4	5.5	400	9.8	49	75	0.85	2850	5000	2.0	2.5
4R519	5.5	7.5	400	13.7	71	76	0.85	2850	5000	2.0	2.5
4R521	7.5	10	400	18.9	96	76	0.85	2850	5000	2.0	2.5

SINGLE-PHASE MOTORS 60 Hz PSC

Motor Type		HP	V	S.F	In	Istart	Efficiency	PF	Nn	Thrust Load	Capacitor	Cable			
3-Wire	2-Wire	KW	HP	V	A	A	%	allowable	overload	RPM	N	QF	mm2	m	
4R261	4R261M	0.37	0.5	110	1.6	8.5	9.8	30	64	0.89	0.95	3430	2000	65	1.5
4R261	4R261M	0.37	0.5	230	1.6	4.8	5.2	15	64	0.75	0.87	3430	2000	16	1.5
4R261	N/A	0.37	0.5	254	1.6	4.3	47	13.8	58	0.75	0.87	3430	2000	12.5	1.5
4R262	N/A	0.55	0.75	110	1.5	10.9	12.8	38	65	0.59	0.84	3440	2000	80	1.5
4R262	4R262M	0.55	0.75	230	1.5	5.8	16.1	29	68	0.67	0.88	3440	2000	20	1.5
4R262	N/A	0.55	0.75	254	1.5	5.3	6	17.1	62	0.79	0.90	3430	2000	16	1.5
4R293	N/A	0.75	1	110	1.4	11.5	14.8	30	68	0.68	0.89	3440	2000	109	1.5
4R293	4R293M	0.75	1	230	1.4	6.3	4	29	70	0.89	0.91	3450	2000	26	1.5
4R293	N/A	0.75	1	254	1.4	5.5	67	15.3	66	0.88	0.95	3430	2000	20	1.5
4R294	4R294M	1.1	1.5	110	1.3	9.7	10.3	34	70	0.89	0.91	3450	2000	35	1.5
4R294	N/A	1.1	1.5	254	1.3	7.9	9.2	25.7	65	0.88	0.95	3450	2000	30	1.5
4R296	4R296M	1.5	2	230	1.25	10.8	12	41	72	0.92	0.95	3450	2000	40	1.5
4R296	N/A	1.5	2	254	1.25	11	12	38	69	0.91	0.97	3450	2000	35	1.5
4R357	N/A	2.2	3	230	1.15	14.4	16.1	45	70	0.92	0.98	3450	3000	55	1.5
4R357	N/A	2.2	3	254	1.15	14	16.4	45.9	71	0.93	0.98	3450	3000	45	1.5
4R508	N/A	3	4	230	1.15	16	20	64	71	0.95	0.97	3450	5000	75	2.0

THREE-PHASE MOTORS 60 HZ DOL

Motor Type	P2	V	S.F	In	Istart	Efficiency	PF %	Nn	Thrust Load	Cable				
3-Wire	KW	HP	V	A	A	%		RPM	N	mm ²				
4R280	0.37	0.5	230	1.6	2.8	3.3	10	68	0.56	0.63	3450	2000	1.5	1.7
4R281	0.55	0.75	230	1.5	3.8	4.3	17	69	0.63	0.78	3450	2000	1.5	1.7
4R282	0.75	1	230	1.4	4.5	5.2	24	72	0.65	0.77	3450	2000	1.5	1.7
4R283	1.1	1.5	230	1.3	6.7	6.6	33	72	0.73	0.81	3450	2000	1.5	1.7
4R284	1.5	2	230	1.25	7.8	8.3	40	74	0.69	0.77	3450	2000	1.5	1.7
4R386	2.2	3	230	1.15	10.3	11.2	48	74	0.76	0.80	3450	3000	1.5	2.5
4R587	3	4	230	1.15	17.5	18.7	109	75	0.76	0.78	3450	5000	2.0	2.5
4R588	4	5.5	230	1.15	19.1	21	109	75	0.77	0.80	3450	5000	2.0	2.5
4R608	5.5	7.5	230	1.15	25.3	27.6	134	75	0.76	0.80	3450	5000	2.0	2.5
4R589	7.5	10	230	1.15	34.1	36.9	215	76	0.73	0.78	3450	5000	2.0	2.5
4R270	0.37	0.5	400	1.6	6.6	1.9	9	68	0.63	0.74	3450	2000	1.5	1.7
4R271	0.55	0.75	400	1.5	2.2	2.5	11	69	0.68	0.80	3450	2000	1.5	1.7
4R272	0.75	1	400	1.4	2.6	3	14	72	0.68	0.69	3450	2000	1.5	1.7
4R273	1.1	1.5	400	1.3	3.3	3	19	72	0.74	0.82	3450	2000	1.5	1.7
4R274	1.5	2	400	1.25	4.4	4.9	23	74	0.67	0.75	3450	2000	1.5	1.7
4R376	2.2	3	400	1.15	6	6.5	28	74	0.74	0.79	3450	3000	1.5	2.5
4R577	3	4	400	1.15	10	10.3	76	75	0.73	0.77	3450	5000	2.0	2.5
4R597	4	5.5	400	1.15	10.5	11.6	83	76	0.75	0.79	3450	5000	2.0	2.5
4R578	5.5	7.5	400	1.15	14.5	15.9	78	75	0.76	0.80	3450	5000	2.0	2.5
4R579	7.5	10	400	1.15	19.7	21.3	124	76	0.73	0.78	3450	5000	2.0	2.5