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S-2000 TEFC/TENV

AC Motors

1/8 - 5 HP



Reliance® Electric S-2000 motors, designed to meet all general purpose industrial applications

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| Standard Features | Specifications | Performance Data |

Reliance Electric S-2000, Totally Enclosed Fan Cooled and Totally Enclosed Non-Ventilated motors are specifically designed for all general purpose industrial applications in which the environment is dusty, dirty and/or humid. These motors are enclosed to reduce the exchange of air between the inside and the outside of the motor. Although not considered "air-tight", this minimizes the possibility of contaminants in the environment from entering the motor. With a Reliance S-2000, TEFC/TENV you are assured a long lasting, reliable motor for your application.

Standard Features

- **Frame** - Full seam weld. Optimum thickness for better heat dissipation. Ends turned for excellent fit to end shields. Frames primed with alkyd primer for corrosion resistance.
- **End Shields** - Die cast aluminum with metal bearing bore inserts to provide extra strength and security. Moisture drains are provided in each end shield providing drainage when mounted vertical or horizontal.
- **Base** - Heavy duty steel welded to frame.
- **Rotor** - Cast aluminum with integrally cast fins for excellent cooling. Keyless design, heat shrunk to shaft, turned for proper air gap, and dynamically balanced, providing for a superior, more efficient electrical design.
- **Stator** - Specially treated class "F" and "H" wire used with full slot liner material. Coil heads laced for improved mechanical strength. Stator tested before and after assembly providing optimum electrical integrity.
- **Insulation** - Non-hygroscopic, baked-on insulation assures superior electrical strength.
- **Hardware** - Zinc chromate plated, high strength, with hex heads. Plating provides exceptional corrosion protection.
- **Bearings** - Double shielded. Oversized. Permanently lubricated with moisture resistant grease. Rugged - holds up in tough applications.
- **Conduit Box** - Oversized, top mounted, conduit box with F1/F2 conduit connection and grounding lug for ease of installation and safety (F1/F2 conduit box in the end shield for TENV).
- **Shaft** - High strength, carbon steel.
- **Connection Diagram** - Permanently attached to motor.
- **Fan** - Antistatic, bidirectional, corrosion resistant polypropylene. Provides superior cooling with reduced losses due to air movement. Keyed and clamped to prevent movement on the shaft.
- **Single-Phase** - Electronic switch mounted in conduit box (or on end shield for TENV) providing convenience and reliability.
- **Certifications** - U.L® component recognition and CSA approved.
- **Energy Savings Design** - Provided by electrically matched rotor and stator which reduce primary and secondary losses.

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- **Leads** - Permanently marked providing fast identification.

Specifications

Horsepower	1/8 - 5
Speed	3600, 1800, 1200, 9001 RPM
Enclosure	Totally Enclosed Fan Cooled or Totally Enclosed Non-Ventilated
Frame	48, 56, 140T, and 180T
NEMA Design	B
Power Supply	Single-phase, 60 Hertz, 115/208-230 or Three-phase, 60 Hertz, 208-230/460 A wide range of other frequencies and voltages are also available.)
Insulation	Class F
Duty	Continuous
Ambient	40°C
Service Factor	1.15

1 Single-Phase 900 RPM not available

Performance Data

HP	Full Load RPM	Encl	Type	Amperes @230V			Efficiency Load			Power Factor Load			S.F.	Torque Lb. Ft.			Perf. Data Design
				FL	LR	Code	4/4	3/4	2/4	4/4	3/4	2/4		FL	BD	LR	
Single-Phase - TENV, TEFC																	
1/6	1140	TENV	CS	2.20	9.20	N	48.0	42.0	36.0	48.0	43.0	36.0	1.15	0.74	1.83	2.70	M2800E
1/4	1725	TENV	CS	2.60	16.20	M	58.1	53.9	45.2	59.2	51.6	43.3	1.15	0.75	2.50	2.83	M2270J
	1140	TENV	CS	2.90	13.00	L	58.0	53.0	43.0	50.0	44.0	36.0	1.15	1.12	3.56	3.81	M3129
1/3	3450	TENV	CS	3.30	13.50	L	54.0	52.0	43.0	65.0	62.0	54.0	1.15	0.49	1.44	1.31	M2274B
	1725	TENV	CS	3.20	16.65	M	64.0	58.0	51.0	58.0	50.0	43.0	1.15	0.99	3.16	3.58	M2269F
	1140	TENV	CS	3.90	16.15	M	56.0	51.0	43.0	53.0	46.0	38.0	1.15	1.49	4.40	5.48	M3122A
1/2	3450	TENV	CS	3.50	18.25	N	66.0	64.0	56.0	73.0	67.0	58.0	1.15	0.79	2.06	1.69	M2273A
	1750	TEFC	CS	4.30	25.00	L	67.9	63.6	55.7	58.8	50.4	40.7	1.15	1.50	5.00	4.00	M2268P
	1140	TENV	CS	4.70	22.50	L	61.0	59.0	52.0	58.0	50.0	41.0	1.15	2.27	5.24	6.50	M3131C
3/4	3450	TEFC	CS	4.70	26.25	N	70.6	69.3	63.0	75.8	68.3	58.0	1.15	1.13	2.54	2.36	M2272A
	1730	TEFC	CS	5.50	28.50	K	70.7	69.4	64.2	68.1	59.7	48.8	1.15	2.25	5.92	7.31	M6983M
	1140	TEFC	CH	5.40	24.50	H	69.0	67.0	62.0	64.0	56.0	45.0	1.15	3.41	6.80	7.50	M2678A
1	3450	TEFC	CS	5.60	34.30	J	70.0	69.0	65.0	78.0	74.0	63.0	1.15	1.45	3.58	3.56	M2651
	1750	TEFC	CS	6.80	34.30	K	72.0	70.0	64.0	67.0	58.0	47.0	1.15	3.01	7.50	10.00	M2688
	1140	TEFC	CH	5.90	28.20	J	74.9	73.1	67.5	77.1	73.1	64.0	1.15	4.57	9.10	9.80	M4576A
1.5	3450	TEFC	CS	8.50	58.40	K	80.0	79.5	76.5	77.8	70.2	58.3	1.15	2.19	6.69	5.42	M2646
	1730	TEFC	CH	8.00	59.00	K	77.0	76.0	72.0	79.0	73.0	61.0	1.15	4.52	11.60	14.20	M3145G
2	3450	TEFC	CS	10.00	65.00	K	79.0	77.8	74.6	81.0	76.9	66.2	1.15	3.00	8.25	6.68	M6637A
	1730	TEFC	CH	9.00	60.60	H	79.9	81.0	78.8	84.9	81.7	73.2	1.00	5.99	14.20	15.80	M6626

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Three-Phase - TENV, TEFC																	
1/6	1140	TENV	P	0.50	1.75	L	66.0	62.0	57.0	56.0	50.0	40.0	1.15	0.77	2.58	2.16	M2721
1/4	3450	TENV	P	0.50	3.25	M	65.7	64.0	56.0	74.0	67.0	56.0	1.15	0.39	1.54	1.44	M2707
	3450	TEFC	P	0.70	4.05	L	62.0	52.8	42.9	68.3	60.0	52.2	1.15	0.47	1.51	1.25	M1671
	1730	TENV	P	0.55	3.45	M	71.0	66.0	60.0	61.0	52.0	42.0	1.15	0.78	3.56	1.19	M2706
	1730	TEFC	P	0.80	2.90	K	62.0	56.8	47.5	57.8	50.8	41.7	1.15	0.76	2.87	2.19	M1645
	1140	TENV	P	0.70	3.25	M	67.0	61.0	55.0	52.0	44.0	36.0	1.15	1.14	5.06	4.00	M2709
1/3	3450	TENV	P	0.60	3.75	L	70.6	67.0	60.9	71.2	62.6	50.8	1.15	0.52	2.06	2.00	M2708
	3450	TEFC	P	0.60	3.75	L	70.6	67.0	60.9	71.2	62.6	50.8	1.15	0.52	2.06	2.00	M2708
	1730	TENV	P	0.70	4.05	L	74.9	73.1	65.9	59.9	49.8	40.3	1.15	1.03	4.38	3.88	M2705
	1730	TEFC	P	0.85	3.70	L	71.0	66.8	60.0	62.3	53.4	43.6	1.15	1.02	3.66	3.08	M1651
	1140	TENV	P	0.80	3.70	K	67.0	64.0	57.0	51.0	43.0	34.0	1.15	1.50	5.38	4.38	M2710
1/2	3450	TENV	P	0.80	6.50	N	79.0	76.0	70.4	80.0	73.2	61.0	1.15	0.76	3.00	2.38	M2712
	3450	TEFC	P	1.00	5.05	K	72.0	69.0	61.0	73.0	66.0	55.0	1.15	0.76	2.46	2.31	M1659
	1730	TENV	P	1.10	6.10	L	74.3	72.1	66.8	65.7	56.1	44.0	1.15	1.50	5.58	3.92	M6976
	1730	TEFC	P	1.15	5.50	L	74.4	71.8	65.9	66.6	58.1	46.3	1.15	1.51	5.58	4.33	M1650
	1140	TENV	P	1.20	5.60	L	74.0	72.0	68.0	60.0	52.0	40.0	1.15	2.26	7.81	5.86	M2949
	1140	TEFC	P	1.20	5.60	L	74.0	72.0	68.0	60.0	52.0	40.0	1.15	2.26	7.81	5.86	M2949
3/4	3450	TENV	P	1.20	9.80	L	79.0	78.0	73.0	82.0	78.0	68.0	1.15	1.16	4.23	3.09	M2957
	3450	TEFC	P	1.30	7.25	J	70.0	64.0	57.0	75.0	66.0	57.0	1.15	1.13	3.75	2.50	M1660
	1730	TENV	P	1.25	10.00	M	78.0	76.0	70.0	74.0	66.0	56.0	1.15	2.25	10.69	8.00	M2925
	1730	TEFC	P	1.50	8.30	K	75.2	72.7	67.6	67.6	58.5	46.0	1.15	2.25	8.06	6.00	M4701
	1140	TENV	P	1.50	8.70	L	79.0	77.0	72.0	62.0	52.0	41.0	1.15	3.40	14.20	10.90	M2945
	1140	TEFC	P	1.60	7.15	J	74.0	72.0	68.0	66.0	57.0	46.0	1.15	3.43	10.00	7.75	M2948
1	3450	TENV	P	1.50	10.75	K	80.0	80.0	76.0	87.0	82.0	73.0	1.15	1.50	5.49	4.08	M2994
	3450	TEFC	P	1.60	10.00	K	69.0	67.0	67.0	84.0	77.0	67.0	1.15	1.50	4.50	3.56	M2753
	1730	TENV	P	1.60	12.30	M	81.0	81.0	77.0	78.0	70.0	59.0	1.15	3.01	13.30	12.50	M2968
	1730	TEFC	P	1.70	11.30	L	73.7	70.6	63.1	80.0	72.8	62.1	1.15	3.00	11.60	8.63	M7027
	1140	TEFC	P	2.00	9.95	J	74.0	73.0	66.0	58.0	49.0	39.0	1.15	4.56	14.90	10.80	M0141
1.5	3450	TEFC	P	2.00	11.30	-	81.0	80.0	79.0	88.0	88.0	84.0	1.15	2.29	5.31	4.50	M2756
	1730	TEFC	P	2.80	15.80	K	78.5	76.0	70.3	64.7	55.0	44.0	1.15	4.51	16.70	12.90	M2920
2	3450	TEFC	P	2.80	22.70	L	79.7	74.8	67.1	84.3	76.0	68.0	1.15	3.04	11.00	9.38	M6743
	1730	TEFC	P	3.20	21.00	J	81.8	80.2	77.5	74.6	67.4	55.2	1.15	6.10	21.20	16.80	M2916
3	3450	TEFC	P	3.80	28.00	K	85.0	82.0	82.0	91.0	92.0	86.0	1.15	4.63	15.00	12.40	M2993

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