

# Small RPM AC Inverter Duty Motor - Specification & Performance

## VECTOR AND RPM AC SPECIFICATION AND PERFORMANCE DATA

HP	FL RPM	Max RPM	Frame	Encl.	Inertia (lb-ft <sup>2</sup> )	R <sub>1</sub>	R <sub>2</sub>	X <sub>1</sub>	X <sub>2</sub>	X <sub>m</sub>	R <sub>m</sub>	N/L Amps	F/L Amps	F/L Eff %	Wt.
1/3	3508	5400	FB56C	TENV	0.019	27	10.6	31.3	11.8	396	56.4	0.55	0.8	58.6	45
1/3	1754	5400	FB56C	TENV	0.048	22.6	15	39.1	31.9	766	79	0.35	0.5	77.7	46
1/3	1157	5400	FB56C	TENV	0.059	26.7	20.4	41.7	49.1	534	36.1	0.93	1.3	77.5	46
1/2	3515	5400	FB56C	TENV	0.03	16.6	9.25	27.6	16.2	780	109	0.35	0.8	70.9	45
1/2	1748	5400	FB56C	TENV	0.054	21.1	12	28.1	25.9	616	52.4	0.5	0.8	80	47
1/2	1151	5400	FB56C	TENV	0.071	18.6	15.52	31.6	39.2	426	28.9	1.1	1.8	79.2	47
3/4	3496	5400	FB56C	TENV	0.035	9.75	6.75	20	12.8	608	85.8	0.45	1.1	72.9	48
3/4	1744	5400	FB56C	TENV	0.059	12.4	8.79	22.4	20.5	483	50.7	0.6	1.1	82.4	49
3/4	1148	5400	FB56C	TENV	0.069	13.8	9.12	22	24.29	274	19.4	0.85	1.3	78.8	49
1	3507	5400	WC143TC	TENV	0.038	7.9	5.39	15.9	10.9	517	73.1	0.55	1.2	80.6	50
1	1757	5400	WC143TC	TENV	0.075	8.3	5.26	12.3	13.4	311	27.5	0.85	1.6	84.6	51
1	1170	5400	WC143TC	TENV	0.122	5.76	4.25	10.45	15.22	153	3.85	1.4	2	84.9	51
1.5	3504	5400	WD145TC	TENV	0.064	5.21	3.54	12	11.7	490	66.6	0.65	2	89	50
1.5	1756	5400	WC145TC	TENV	0.094	5.35	3.62	7.99	9.46	190	12.8	1.4	2.3	85.7	51
1.5	1143	5400	WE145TC	TENV	0.122	6.53	6.37	11.97	12.6	159.84	8.52	1.6	2.4	81.5	52
2	3506	5400	WE145TC	TENV	0.078	2.04	1.87	6.29	6.63	271	37.2	0.95	2.5	86.8	51
2	1761	5400	WD145TC	TENV	0.105	3.8	2.43	6.03	7.43	147	10	1.9	3	87.3	52
3	3530	5400	WE182TC	TENV	0.078	2.01	1.24	4.34	4.55	195	10.7	1.05	3.8	86.4	54
3	1765	5400	WF182TC	TENV	0.14	2.35	1.75	4.01	5.33	94.5	2.39	2.4	4.4	87.5	56
5	3470	5400	WE184TC	TEBC	0.07	1.6	1.27	3.49	3.16	150	21.8	1.65	5.9	84.4	65
5	1741	5400	WE184TC	TEBC	0.129	1.81	1.3	3.07	3.43	71	5.05	4	7.1	84.3	67

- \* FL RPM is full load at temperature rise.
- \* Max RPM is mechanical limit.
- \* All motors have 3 N/C thermostats.
- \* TEBC has 1/50-60/115 volt, 0.26 amp in-line blower.
- \* Connector mating half furnished on encoder.

R<sub>1</sub> = primary resistance / Ø  
 R<sub>2</sub> = secondary resistance / Ø  
 R<sub>m</sub> = magnetizing resistance / Ø

X<sub>1</sub> = primary reactance / Ø  
 X<sub>2</sub> = secondary reactance / Ø  
 X<sub>m</sub> = magnetizing reactance / Ø

N / L Amps @ 460 volt  
 F / L Amps @ 460 volt

For 230 volt data multiply R<sub>1</sub>, R<sub>2</sub>, X<sub>1</sub>, X<sub>2</sub>, X<sub>m</sub>, R<sub>m</sub> times 1/4 and the N/L and F/L Amps times 2