



WATTSAYER® PREMIUM EFFICIENCY MOTORS

GENERAL PURPOSE • THREE PHASE

WATTSAYER® Inverter-Duty Premium Efficiency Motor

The WATTSAYER® line of premium efficiency motors is now *inverter capable*. LEESON's unique IRIS™ voltage-spike-resistant insulation system is standard at no extra cost. WATTSAYER® motors carry a three-year warranty in general purpose and inverter fed applications. These motors meet or exceed most utility rebate programs and the EPACT federally mandated efficiency levels. The efficiency ratings have been verified to IEEE 112B test standards by LEESON's NVLAP-Certified lab.



THREE PHASE • TEFC • C FACE LESS BASE 208-230/460V

HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Meets NEMA Premium	F.L. Amps 230V	3/4 Load Eff.	% F.L. Eff.	"C" Dim. (Inches)
1/3	1725	S56C	102696	22	N/A	1.3	73.5	77.0	10.19
1/2	1725	S56C	101780	25	N/A	1.8	73.8	77.0	10.69
3/4	1725	56C	114213	27	N/A	2.7	80.2	81.5	11.31
1	1725	56C	114638	34	N/A	3.4	84.7	85.5	12.81
	1725	143TC	121067	36	✓	3.4	84.7	85.5	13.25
1½	1725	145TC	121066	41	✓	5.6	86.1	86.5	13.75
2	1725	145TC	121065	45	✓	5.8	86.7	86.5	14.26
3	1760	182TC	131503	72	✓	7.8	89.0	89.5	14.96
5	1760	184TC	131501	90	✓	12.8	90.1	89.5	15.97

All WATTSAYER® motors have normally closed thermostats for over-temperature alert.

THREE PHASE • DRIP-PROOF • C FACE LESS BASE 208-230/460V

HP	RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Meets NEMA Premium	F.L. Amps 230V	3/4 Load Eff.	% F.L. Eff.	"C" Dim. (Inches)
1/3	1725	S56C	102695	22	N/A	1.3	73.5	77.0	10.24
1/2	1725	S56C	102200	25	N/A	1.8	73.8	77.0	10.74
3/4	1725	56C	114934	29	N/A	2.4	80.4	81.5	10.86
1	1725	143TC	121064	32	✓	3.4	84.7	85.5	12.12
1½	1725	145TC	121063	36	✓	5.6	86.1	86.5	13.12
2	1725	145TC	121071	41	✓	5.8	86.7	86.5	13.62
3	1760	182TC	131518	75	✓	7.8	90.2	89.5	14.20
5	1760	184TC	131517	96	✓	12.8	90.1	89.5	15.20

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50 HERTZ MOTORS THREE PHASE

General Specifications:

Totally enclosed fan cooled, 12-lead motors designed specifically for 50 Hz service. These motors are intended for equipment built in North America and destined for use in 50 Hz service areas of the world.



Features:

These NEMA frame motors are designed to North American performance standards, but for 50 Hz service. Suitable for 220/380 volt, 50 Hz, or 440 volt, 50 Hz, three phase power. Torques exceed NEMA performance standards for Design B motors and produce the full rated horsepower at 50 Hz speeds.

Construction meets IEC, IP54 degree of protection standards and utilizes external fan cooling (IEC cooling method IC41). Gasketed conduit box is in the North American standardized F1 location, with leads.

THREE PHASE • TEFC • C FACE LESS BASE • IP54

KW/HP	RPM 50 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	F.L. Amps 380 V.	% F.L. Eff.	"C" Dim. (Inches)
0.18/¼	1425	S56C	102184	18	220/380/440	1.00	56.0	9.44
	1425	56C	114889	18	220/380/440	1.10	68.0	10.31
0.25/⅓	1425	S56C	102689	19	220/380/440	1.10	65.0	9.69
	1425	56C	114889	18	220/380/440	1.10	68.0	10.31
	950	56C	114892	28	220/380/440	1.50	68.0	11.31
0.37/½	1425	S56C	102694	20	220/380/440	1.40	72.0	10.19
	1425	56C	114891	20	220/380/440	1.15	73.0	10.81
0.55¾	1425	56C	114894	27	220/380/440	1.85	74.0	11.31
	1425	56C	114896	28	220/380/440	2.00	77.0	11.31
0.75/1	1425	143TC	121272	31	220/380/440	2.00	77.0	11.75
	950	145TC	121273	39	220/380/440	2.65	73.0	13.25
1.1/1½	1440	145TC	121275	37	220/380/440	3.30	75.5	12.75
1.5/2	1440	145TC	121277	40	220/380/440	3.65	81.5	13.75
2.2/3	1440	182TC	131506	63	220/380/440	4.70	84.0	13.97
3.7/5	1440	184TC	131508	82	220/380/440	8.10	85.0	15.47

▲ These motors are satisfactory for operation on 50 hertz power supply at full rated horsepower.
† Class F insulated.

