LEESON 50 HERTZ MOTORS
SINGLE PHASE

50 HZ • SINGLE PHASE

General Specifications:
50 Hz single phase designs produce full rated HP on 50 Hz power supply. Designed for general purpose application.

Electrical Features:
High efficiency energy saving designs. Centrifugal switch specifically designed for 50 Hz service. Conduit box with leads. Torque at rated HP on 50 Hz power supply is 20% greater than the running torque of a 60 Hz motor. **All 180 and 210 frame Rolled Steel motors have Class F Insulation.**

CE CONFORMITE EUROPEENE

SINGLE PHASE • DRIP-PROOF • RIGID BASE • IP22

HP	RPM 50 Hz	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	Over-load Prot.	F.L. Amps 220V	"C" Dim. (Inches)
1/3	2850	…	…	…	…	…	…	…	…	…
	1425	56	**110394**	$368	A	22	110/220	None	3.2	9.88
	1425	…	…	…	…	…	…	…	…	…
1/2	2850	56	**113901**	329	A	25	110/220	None	3.8	10.34
	1425	56	**110395**	466	A	25	110/220	None	4.1	10.38
	1425	…	…	…	…	…	…	…	…	…
3/4	2850	56	**113902**	412	A	27	110/220	None	5.6	10.34
	1425	56	**110396**	559	A	30	110/220	None	5.9	10.88
	1425	…	…	…	…	…	…	…	…	…
1	2850	56	**113903**	457	A	31	110/220	None	6.6	10.84
	1425	56H	**110397**□	616	A	35	110/220	None	6.4	11.88
	1425	…	…	…	…	…	…	…	…	…
1½	2850	56H	**113904**	587	A	37	110/220	None	8.6	11.84
	1425	56H	**110398**☆□	694	A	43	110/220	None	8.4	12.35
	1425	…	…	…	…	…	…	…	…	…
2	2850	56H	**113905**	719	A	42	110/220	None	10.7	12.34
	1440	182T	**131553**	835	B	70	220	None	11.8	13.69
	1440	…	…	…	…	…	…	…	…	…
3	2850	56H	**113937**†	852	A	47	220	None	12.4	12.84
	2850	…	…	…	…	…	…	…	…	…
	1440	184T	**131554**	954	B	80	220	None	16.8	14.69
	1440	…	…	…	…	…	…	…	…	…
5	2850	…	…	…	…	…	…	…	…	…
	1440	184T	**131555**☆	1952	B	95	220	None	23.2	15.69
	1440	…	…	…	…	…	…	…	…	…

SINGLE PHASE • TEFC • RIGID BASE • IP54

NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	Over-load Prot.	F.L. Amps 220V	"C" Dim. (Inches)
56	**113916**	$339	A	25	110/220	None	3.2	10.81
56	**110423**	429	A	24	110/220	None	3.2	10.81
56	**113908**	433	A	26	110/220	Man.	3.2	10.81
56	**113917**	362	A	27	110/220	None	3.8	11.31
56	**110064**	492	A	25	110/220	None	4.1	11.31
56	**113909**	492	A	29	110/220	Man.	4.1	11.31
56	**113918**	412	A	29	110/220	None	5.6	11.31
56	**110065**†	563	A	32	110/220	None	5.9	11.81
56	**113910**	584	A	32	110/220	Man.	5.9	11.81
56	**113919**	478	A	32	110/220	None	6.6	11.81
56H	**110066**□	677	A	38	110/220	None	6.4	12.81
56	**113911**†	677	A	34	110/220	Man.	6.4	12.31
56H	**113920**	629	A	44	110/220	None	8.0	13.31
56H	**110424**†☆□	767	A	47	110/220	None	8.6	13.31
56H	**113929**†☆	700	A	49	110/220	Man.	8.6	13.31
56HZ	**113928**†■	761	A	44	110/220	None	10.7	13.76
182T	**131556**	1151	B	95	220	None	11.2	15.96
182T	**131600**	1136	B	71	220	Man.	12.0	14.96
145T	**121070**†☆	936	B	50	220	None	12.4	12.84
56H	**113936**†☆	936	A	48	220	None	12.4	13.81
184T	**131557**	1644	B	98	220	None	15.9	16.96
184T	**131601**	1618	B	98	220	Man.	15.9	16.96
184T	**131638**☆	1083	B	98	220	None	20.5	17.46
184T	**131578**☆	2085	B	103	220	None	21.0	17.46
213TZ	**140475**☆	2095	B	163	220	Man.	24.5	18.71

SINGLE PHASE • DRIP-PROOF • RESILIENT BASE • IP22

HP	RPM 50 Hz	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	Over-load Prot.	F.L. Amps 220V	"C" Dim. (Inches)
1/3	2850	56	**114222**	$287	A	24	110/220	None	3.2	10.82
	1425	56	**114223**	376	A	24	110/220	None	3.2	10.81
	1425	…	…	…	…	…	…	…	…	…
1/2	2850	56	**114224**	335	A	26	110/220	None	3.8	11.32
	1425	56	**114225**	469	A	27	110/220	None	4.1	11.31
	1425	…	…	…	…	…	…	…	…	…
3/4	2850	56	**114226**	408	A	28	110/220	None	5.6	11.32
	1425	56	**114227**	560	A	31	110/220	None	5.9	11.81
	1425	…	…	…	…	…	…	…	…	…
1	2850	56	**114228**	464	A	31	110/220	None	6.6	11.82
	1425	56	**114229**	617	A	35	110/220	None	6.4	12.31
	1425	…	…	…	…	…	…	…	…	…
1½	2850	…	…	…	…	…	…	…	…	…
	1425	56H	**114231**☆	693	A	42	110/220	None	8.4	13.32
	1425	…	…	…	…	…	…	…	…	…
2	2850	…	…	…	…	…	…	…	…	…
	1440	56H	**114233**†	845	A	49	220	None	9.6	13.82
	1440	…	…	…	…	…	…	…	…	…

SINGLE PHASE • TEFC • C FACE LESS BASE • IP54

NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	Over-load Prot.	F.L. Amps 220V	"C" Dim. (Inches)
…	…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…	…
56C	**113921**	$442	A	22	110/220	Man.	3.2	10.81
56C	**113912**	380	A	25	110/220	None	3.8	11.31
…	…	…	…	…	…	…	…	…
56C	**113922**	505	A	29	110/220	Man.	4.1	11.31
56C	**113913**	422	A	28	110/220	None	5.6	11.31
…	…	…	…	…	…	…	…	…
56C	**113923**	578	A	31	110/220	Man.	5.9	11.81
56C	**113914**	520	A	32	110/220	None	6.6	11.81
…	…	…	…	…	…	…	…	…
56C	**113924**†	609	A	34	110/220	Man.	6.4	12.31
56C	**113915**	676	A	43	110/220	None	8.0	13.31
…	…	…	…	…	…	…	…	…
56C	**113925**†☆	738	A	42	110/220	Man.	8.6	13.31
145TC	**120990**†☆	780	B	47	110/220	None	8.6	13.75
…	…	…	…	…	…	…	…	…
182TC	**131599**	1164	B	70	220	Man.	12.0	14.97

■ Combination 56HZ base has mounting holes for NEMA 56 and 143-5T and a standard NEMA 145T frame shaft of 7/8" diameter.
□ Combination 56H base motors have mounting holes for NEMA 56 and NEMA 143-5T and a standard NEMA 56 shaft.
☆ Capacitor start/capacitor run design for reduced amperage, others are capacitor start/induction run.
† Class F insulated.

50 HZ • 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.

All 180 and 210 frame Rolled Steel motors have Class F Insulation.

CE CONFORMITE EUROPEENE

THREE PHASE • TEFC • RIGID BASE • IP54

KW/HP	RPM 50 Hz	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	F.L. Amps 380 V.	% F.L. Eff.	"C" Dim. (Inches)
0.18/1/4	1425	48	**102685**	$357	A	19	220/380/440	1.00	56.0	9.06
0.25/1/3	2850	48	**102686**	356	A	19	220/380/440	0.80	60.0	9.93
	1425	48	**102688**	429	A	19	220/380/440	1.10	65.0	9.31
	1425	S56	**102183**	401	A	19	220/380/440	1.10	65.0	9.69
0.37/1/2	2850	48	**102690**	412	A	20	220/380/440	1.00	69.0	10.43
	1425	48	**102692**	485	A	20	220/380/440	1.40	72.0	9.81
	1425	S56	**102693**	448	A	20	220/380/440	1.40	72.0	10.19
	1425	56	**114304**●	482	A	25	220/380/440	1.02	78.0	10.38
0.55/3/4	2850	56	**114306**	436	A	24	220/380/440	1.75	72.0	10.81
	1425	56	**114307**	514	A	27	220/380/440	1.85	74.0	11.31
0.75/1	2850	56	**114308**	523	A	26	220/380/440	2.40	71.0	11.31
	1425	56	**114888**	519	A	28	220/380/440	2.00	77.0	11.31
	1425	143T	**121096**	519	B	35	220/380/440	2.00	77.0	12.75
1.1/1 1/2	2850	145T	**121097**	538	B	34	220/380/440	2.90	80.0	12.76
	1425	145T	**121093**	538	B	40	220/380/440	3.30	75.5	12.75
1.5/2	2850	145T	**121094**	582	B	42	220/380/440	3.60	80.0	12.76
	1425	145T	**121095**	609	B	40	220/380/440	3.65	81.5	13.25
2.2/3	2850	182T	**131480**	751	B	58	220/380/440	4.80	82.5	13.46
	1425	182T	**131459**	718	B	64	220/380/440	4.70	84.0	13.46
3.7/5	2850	184T	**131481**	886	B	76	220/380/440	7.40	84.0	14.46
	1425	184T	**131454**	819	B	82	220/380/440	8.10	85.0	15.46

● These motors are totally enclosed, non-ventilated, IEC cooling method IC40.

THREE PHASE • TEFC • C FACE LESS BASE • IP54

KW/HP	RPM 50 Hz	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	F.L. Amps 380 V.	% F.L. Eff.	"C" Dim. (Inches)
0.18/1/4	1425	S56C	**102184**	$380	A	18	220/380/440	1.00	56.0	9.44
0.25/1/3	2850	S56C	**102687**	374	A	19	220/380/440	0.80	60.0	10.31
	1425	S56C	**102689**	410	A	19	220/380/440	1.10	65.0	9.69
	1425	56C	**114889**	439	A	18	220/380/440	1.10	68.0	10.31
0.37/1/2	2850	S56C	**102691**	434	A	20	220/380/440	1.00	69.0	10.81
	1425	S56C	**102694**	482	A	20	220/380/440	1.40	72.0	10.19
	1425	56C	**114891**	486	A	20	220/380/440	1.15	73.0	10.81
	950	56C	**114892**	538	A	28	220/380/440	1.50	68.0	11.31
0.55/3/4	2850	56C	**114893**	436	A	24	220/380/440	1.75	72.0	10.81
	1425	56C	**114894**	520	A	27	220/380/440	1.85	74.0	11.31
0.75/1	2850	56C	**114895**	526	A	26	220/380/440	2.40	71.0	11.31
	1425	56C	**114896**	542	A	28	220/380/440	2.00	77.0	11.31
	1425	143TC	**121272**	542	B	31	220/380/440	2.00	77.0	11.75
	950	145TC	**121273**	623	B	39	220/380/440	2.65	73.0	13.25
1.1/1 1/2	2850	143TC	**121274**	559	B	33	220/380/440	2.90	80.0	12.25
	1440	145TC	**121275**	567	B	37	220/380/440	3.30	75.5	12.75
1.5/2	2850	145TC	**121276**	560	B	41	220/380/440	3.60	80.0	12.75
	1440	145TC	**121277**	610	B	40	220/380/440	3.65	81.5	13.75
2.2/3	2850	182TC	**131505**	765	B	59	220/380/440	4.80	82.5	13.97
	1440	182TC	**131506**	710	B	63	220/380/440	4.70	84.0	13.97
3.7/5	2850	184TC	**131507**	905	B	75	220/380/440	7.40	84.0	14.47
	1440	184TC	**131508**	810	B	82	220/380/440	8.10	85.0	15.47