

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.



SINGLE PHASE • DRIP-PROOF • RIGID BASE • IP22

HP	RPM 50 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Over-load Prot.	F.L. Amps 220V	"C" Dim. (Inches)
1/3	2850	...	...	...	...	...	...	...
	1425	56	110394.00	22	110/220	None	3.2	9.88
	1425	...	...	...	...	...	...	...
1/2	2850	56	113901.00	25	110/220	None	3.8	10.34
	1425	56	110395.00	25	110/220	None	4.1	10.38
	1425	...	...	...	...	...	...	...
3/4	2850	56	113902.00 A	27	110/220	None	5.6	10.34
	1425	56	110396.00	30	110/220	None	5.9	10.88
	1425	...	...	...	...	...	...	...
1	2850	56	113903.00	31	110/220	None	6.6	10.84
	1425	56H	110397.00 □	35	110/220	None	6.4	11.88
	1425	...	...	...	...	...	...	...
1½	2850	56H	113904.00 A	37	110/220	None	8.6	11.84
	1425	56H	110398.00 ☆□	43	110/220	None	8.4	12.35
	1425	...	...	...	...	...	...	...
2	2850	56H	113905.00	42	110/220	None	10.7	12.34
	1440	182T	131553.00 A	70	220	None	11.8	13.69
	1440	...	...	...	...	...	...	...
3	2850	56H	113937.00 †	47	220	None	12.4	12.84
	2850	...	...	...	...	...	...	...
	1440	184T	131554.00	80	220	None	16.8	14.69
5	2850	...	...	...	...	...	...	...
	1440	184T	131555.00 ☆	95	220	None	23.2	15.69
	1440	...	...	...	...	...	...	...

SINGLE PHASE • TEFC • RIGID BASE • IP54

NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Over-load Prot.	F.L. Amps 220V	"C" Dim. (Inches)
56	113916.00 A	25	110/220	None	3.2	10.81
56	110423.00	24	110/220	None	3.2	10.81
56	113908.00	26	110/220	Man.	3.2	10.81
56	113917.00	27	110/220	None	3.8	11.31
56	110064.00	25	110/220	None	4.1	11.31
56	113909.00	29	110/220	Man.	4.1	11.31
56	113918.00	29	110/220	None	5.6	11.31
56	110065.00 †	32	110/220	None	5.9	11.81
56	113910.00	32	110/220	Man.	5.9	11.81
56	113919.00	32	110/220	None	6.6	11.81
56H	110066.00 □	38	110/220	None	6.4	12.81
56	113911.00 †	34	110/220	Man.	6.4	12.31
56H	113920.00	44	110/220	None	8.0	13.31
56H	110424.00 †☆□	47	110/220	None	8.6	13.31
56H	113929.00 †☆	49	110/220	Man.	8.6	13.31
56HZ	113928.00 †■	44	110/220	None	10.7	13.76
182T	131556.00	95	220	None	11.2	15.96
182T	131600.00 A	71	220	Man.	12.0	14.96
145T	121070.00 †☆	50	220	None	12.4	12.84
56H	113936.00 †☆	48	220	None	12.4	13.81
184T	131557.00	98	220	None	15.9	16.96
184T	131601.00 A	98	220	Man.	15.9	16.96
184T	131638.00 ☆	98	220	None	20.5	17.46
184T	131578.00 ☆	103	220	None	21.0	17.46
213TZ	140475.00 ☆ A	163	220	Man.	24.5	18.71

SINGLE PHASE • DRIP-PROOF • RESILIENT BASE • IP22

HP	RPM 50 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Over-load Prot.	F.L. Amps 220V	"C" Dim. (Inches)
1/3	2850	56	114222.00 A	24	110/220	None	3.2	10.82
	1425	56	114223.00 A	24	110/220	None	3.2	10.81
	1425	...	...	...	...	...	...	...
1/2	2850	56	114224.00 A	26	110/220	None	3.8	11.32
	1425	56	114225.00	27	110/220	None	4.1	11.31
	1425	...	...	...	...	...	...	...
3/4	2850	56	114226.00 A	28	110/220	None	5.6	11.32
	1425	56	114227.00 A	31	110/220	None	5.9	11.81
	1425	...	...	...	...	...	...	...
1	2850	56	114228.00 A	31	110/220	None	6.6	11.82
	1425	56	114229.00 A	35	110/220	None	6.4	12.31
	1425	...	...	...	...	...	...	...
1½	2850	...	...	...	...	...	...	...
	1425	56H	114231.00 ☆	42	110/220	None	8.4	13.32
	1425	...	...	...	...	...	...	...
2	2850	...	...	...	...	...	...	...
	1440	56H	114233.00 †	49	220	None	9.6	13.82
	1440	...	...	...	...	...	...	...

SINGLE PHASE • TEFC • C FACE LESS BASE • IP54

NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Over-load Prot.	F.L. Amps 220V	"C" Dim. (Inches)
...
56C	113921.00	22	110/220	Man.	3.2	10.81
56C	113912.00	25	110/220	None	3.8	11.31
...
56C	113922.00	29	110/220	Man.	4.1	11.31
56C	113913.00	28	110/220	None	5.6	11.31
...
56C	113923.00	31	110/220	Man.	5.9	11.81
56C	113914.00	32	110/220	None	6.6	11.81
...
56C	113924.00 †	34	110/220	Man.	6.4	12.31
56C	113915.00	43	110/220	None	8.0	13.31
...
56C	113925.00 †☆	42	110/220	Man.	8.6	13.31
145TC	120990.00 †☆	47	110/220	None	8.6	13.75
...
182TC	131599.00 A	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.
 A Subject to Availability.



50 HERTZ MOTORS THREE PHASE

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.



THREE PHASE • TEFC • RIGID 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)
0.18/1/4	1425	48	102685.00 A	19	220/380/440	1.00	56.0	9.06
	2850	48	102686.00 A	19	220/380/440	0.80	60.0	9.93
0.25/1/3	1425	48	102688.00	19	220/380/440	1.10	65.0	9.31
	1425	S56	102183.00	19	220/380/440	1.10	65.0	9.69
	2850	48	102690.00 A	20	220/380/440	1.00	69.0	10.43
0.37/1/2	1425	48	102692.00 A	20	220/380/440	1.40	72.0	9.81
	1425	S56	102693.00	20	220/380/440	1.40	72.0	10.19
	1425	56	114304.00●	25	220/380/440	1.02	78.0	10.38
0.55/3/4	2850	56	114306.00	24	220/380/440	1.75	72.0	10.81
	1425	56	114307.00	27	220/380/440	1.85	74.0	11.31
0.75/1	2850	56	114308.00	26	220/380/440	2.40	71.0	11.31
	1425	56	114888.00	28	220/380/440	2.00	77.0	11.31
	1425	143T	121096.00	35	220/380/440	2.00	77.0	12.75
1.1/1 1/2	2850	145T	121097.00 A	34	220/380/440	2.90	80.0	12.76
	1425	145T	121093.00	40	220/380/440	3.30	75.5	12.75
1.5/2	2850	145T	121094.00 A	42	220/380/440	3.60	80.0	12.76
	1425	145T	121095.00 A	40	220/380/440	3.65	81.5	13.25
2.2/3	2850	182T	131480.00	58	220/380/440	4.80	82.5	13.46
	1425	182T	131459.00	64	220/380/440	4.70	84.0	13.46
3.7/5	2850	184T	131481.00	76	220/380/440	7.40	84.0	14.46
	1425	184T	131454.00	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	App. Wgt. (lbs.)	Voltage	F.L. Amps 380 V.	% F.L. Eff.	"C" Dim. (Inches)
0.18/1/4	1425	S56C	102184.00	18	220/380/440	1.00	56.0	9.44
0.25/1/3	2850	S56C	102687.00 A	19	220/380/440	0.80	60.0	10.31
	1425	S56C	102689.00	19	220/380/440	1.10	65.0	9.69
	1425	56C	114889.00	18	220/380/440	1.10	68.0	10.31
0.37/1/2	2850	S56C	102691.00	20	220/380/440	1.00	69.0	10.81
	1425	S56C	102694.00	20	220/380/440	1.40	72.0	10.19
	1425	56C	114891.00	20	220/380/440	1.15	73.0	10.81
	950	56C	114892.00	28	220/380/440	1.50	68.0	11.31
0.55/3/4	2850	56C	114893.00 A	24	220/380/440	1.75	72.0	10.81
	1425	56C	114894.00	27	220/380/440	1.85	74.0	11.31
0.75/1	2850	56C	114895.00	26	220/380/440	2.40	71.0	11.31
	1425	56C	114896.00	28	220/380/440	2.00	77.0	11.31
	1425	143TC	121272.00	31	220/380/440	2.00	77.0	11.75
	950	145TC	121273.00 A	39	220/380/440	2.65	73.0	13.25
1.1/1 1/2	2850	143TC	121274.00 A	33	220/380/440	2.90	80.0	12.25
	1440	145TC	121275.00	37	220/380/440	3.30	75.5	12.75
1.5/2	2850	145TC	121276.00	41	220/380/440	3.60	80.0	12.75
	1440	145TC	121277.00	40	220/380/440	3.65	81.5	13.75
2.2/3	2850	182TC	131505.00	59	220/380/440	4.80	82.5	13.97
	1440	182TC	131506.00	63	220/380/440	4.70	84.0	13.97
3.7/5	2850	184TC	131507.00	75	220/380/440	7.40	84.0	14.47
	1440	184TC	131508.00	82	220/380/440	8.10	85.0	15.47

A Subject to Availability.

Specifications are subject to change without notice