



AGRICULTURAL MOTORS

GENERAL PURPOSE • SINGLE PHASE

FARM DUTY • GENERAL PURPOSE

Heavy duty single phase Hi-Torque Motors designed specifically for severe "farm duty" applications.

Mechanical Features:

Gasketed capacitor housing and conduit boxes provide protection in all environments. Double sealed ball bearings prelubricated with Exxon POLYREX® EM grease having operating temperature range of -20°F to +350°F and special formulation to provide extra bearing protection. Rubber boot over manual protector reset button provides weather protection.

Electrical Features:

Low temperature manual overload protector protects against extreme overload. Class "F" copper windings and varnish. Capacitor start provides high starting torque with normal starting current.

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



HIGH TORQUE • RIGID BASE SINGLE PHASE • TEFC

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Over-load Prot.	F.L. Amps 230V	"C" Dim. (Inches)
1/3	1800	56	113256.00	20	115/208-230	Man.	3.2	10.81
1/2	1800	56	110086.00	22	115/208-230	Man.	4.4	10.81
3/4	1800	56	110087.00	26	115/208-230	Man.	5.4	11.31
1	1800	56	110088.00	30	115/208-230	Man.	7.0	11.81
	1800	143T	121569.00	30	115/208-230	Man.	7.0	12.75
1½	1800	56H	110089.00☆□	41	115/208-230	Man.	8.6	12.61
	1800	56HZ/145T	113938.00■	39	115/208-230	Man.	8.6	13.25
2	1800	56HZ/145T	110090.00☆■	43	230	Man.	9.2	13.75
	1800	182T	131541.00	50	115/208-230	Man.	12.4	14.46
3	1800	184T	131542.00	83	230	Man.	19.0	16.46
5	1800	184T	131543.00☆	96	230	Man.	20.5	17.46
7½	1800	215T	140707.00☆	144	230	Man.	32.0	20.21
10	1800	215T	140706.00☆	152	230	Man.	40.0	20.71

EXTRA HI-TORQUE RIGID BASE SINGLE PHASE • TEFC

Extra Hi-Torque rated 5, 7½ and 10 HP Motors deliver starting torque as high as 300-400% of motor's full load torque with all mechanical and electrical features listed above.

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Over-load Prot.	F.L. Amps 230V	"C" Dim. (Inches)
2	1800	182T	131541.00	50	115/208-230	Man.	12.4	14.46
3	1800	184T	131542.00	83	230	Man.	19.0	16.46
5	1800	215T	140203.00☆	119	230	Man.	24.0	18.71
	1800	215TZ	140223.00☆♦	150	230	Man.	24.0	18.71
7½	1800	215T	140130.00☆	144	230	Man.	33.6	20.21
	1800	215TZ	140209.00☆♦	141	230	Man.	33.6	20.21
10	1800	215T	140414.00☆	156	230	Man.	40.0	20.71

HIGH TORQUE C FACE LESS BASE SINGLE PHASE • TEFC

NEMA C Face Motor designed with overspeed protection on mechanical centrifugal starting switch.



HIGH TORQUE C FACE WITH BASE SINGLE PHASE • TEFC

NEMA C Face Motor designed with overspeed protection on mechanical centrifugal starting switch.



HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Over-load Prot.	F.L. Amps 230V	"C" Dim. (Inches)
1/3	1800	56C	113290.00	28	115/208-230	Man.	3.2	10.81
1/2	1800	56C	110492.00	22	115/208-230	Man.	4.4	10.81
3/4	1800	56C	110493.00	29	115/208-230	Man.	5.4	11.31
1	1800	56C	110494.00	33	115/208-230	Man.	7.0	11.81
1½	1800	56C	110495.00☆	43	115/208-230	Man.	8.6	12.31
2	1800	145TC	120855.00†☆	45	230	Man.	9.2	13.75
3	1800	184TC	131603.00	104	230	Man.	19.0	16.47
5	1800	184TC	131602.00☆	104	230	Man.	20.5	17.47

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Over-load Prot.	F.L. Amps 230V	"C" Dim. (Inches)
1/3	1800	56C	116485.00	29	115/208-230	Man.	3.2	10.81
1/2	1800	56C	116486.00	23	115/208-230	Man.	4.4	10.81
3/4	1800	56C	116487.00	30	115/208-230	Man.	5.4	11.31
1	1800	56C	116488.00	34	115/208-230	Man.	7.0	11.81
1½	1800	56HC	116489.00☆	44	115/208-230	Man.	8.6	12.81
2	1800	145TC	121625.00†☆	46	230	Man.	9.2	13.75
3	1800	184TC	131994.00	105	230	Man.	19.0	16.47
5	1800	184TC	131995.00☆	105	230	Man.	20.5	17.47

- Combination 56 HZ base has mounting holes for NEMA 56 and 143-5T and a standard NEMA 145T frame shaft of 7/8" diameter.
- Combination 56H base has mounting holes for NEMA 56 and 143-5T and a standard NEMA 56 frame shaft.
- ☆ Capacitor start/capacitor run design for reduced amperage, others are capacitor start/induction run.
- † Class F insulated.
- ♦ These motors have a NEMA 215T base mounting pattern and shaft height of 5.25", with usable length of 3¾" and diameter of 1½" with standard key.

Specifications are subject to change without notice

TWO-WINDING VARIABLE TORQUE PSC TYPE FOR SHAFT MOUNTED FAN APPLICATIONS

These fan and blower duty motors are designed for dependable, energy saving performance in applications where the fan is mounted on the shaft of the motor. The permanent split capacitor design does not require a centrifugal switch, resulting in higher reliability than on other types of single phase motors. This design is also more energy efficient and less expensive to operate.



These motors may be operated at listed speed or two speed operation may be achieved by using the proper auxiliary switch. They are suitable for variable speed by adjusting the voltage to the motor using a variable voltage control, except as noted by ∇.

Overload protected with an automatic reset protector. Grounding provisions. Totally enclosed, dust tight design, with resilient mounting for quiet operation. Lubricated with quiet running high temperature lubricant. Corrosion resistant finish for tough applications. Because of the inherently low starting torques of this design, these motors are not suitable for belt driven fan applications. They must be mounted within the air stream of the driven fan.



* The useable shaft of this motor is 3/4" longer than NEMA standard to accommodate fan on shaft mountings. 48Z is 1/2" diameter by 2 1/4". 56Z is 5/8" diameter, 2 9/8" long. All have 1" extended through bolts. Except Catalog Numbers 100805 and 100806 which are extended 1/4".

∇ Suitable for single speed operation only.

□ Combination 56H base motors have mounting holes for NEMA 56 and NEMA 143-5T and a standard NEMA 56 shaft.

① Has provisions for belly band and pedestal fan mount—no rigid base.

② In addition to resilient base, this motor has provisions for belly band and pedestal fan mount.

✓ This split phase start, capacitor run motor is suitable for belt drive within the airflow of the fan.

⊗ Shaft is 5/8" by 2.0"

** Shaft is 5/8" by 2 5/8"

* Shaft is 3/4" by 3 1/2"

CAST IRON RODENT SCREEN MOTORS

Open Drip Proof designs having Rodent screens. Typically used in AG fan and blower applications.

Features include:

- NEMA Premium efficiency
- Rodent Screens
- Re-greasable Bearings
- 1.25 Service Factor
- Class F insulation
- Inverter Duty Insulation System
- UL Recognized and CSA certified



SINGLE PHASE • PSC • TEAO • RESILIENT BASE

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Over-load Prot.	F.L. Amps 230V	"C" Dim. (Inches)
1/4	1800	48Z*	100803.00	19	115/230	Auto.	1.4	10.66
	1200	48Z*	100824.00	20	115/230	Auto.	1.4	10.66
	1200	S56Z*	100805.00	22	115/230	Auto.	1.4	11.06
1/3	1800	48Z*	100804.00	21	115/230	Auto.	1.6	10.66
	1800	S56H	100767.00	22	115/230	Auto.	1.6	10.31
	1800	56HY	111348.00⊗	24	115/230	Auto.	1.7	13.44
	1200	48Z*	100825.00	25	115/230	Auto.	1.8	11.16
1200	S56HZ*	100806.00	27	115/230	Auto.	1.8	11.56	
1/2	1800	56HZ*	111323.00	30	115/230	Auto.	2.6	12.56
	1800	S56H	100768.00	36	115/230	Auto.	2.2	10.81
	1200	48Z*	101645.00	33	115/230	Auto.	2.8	11.16
	1200	56HZ*	111321.00□	37	115/230	Auto.	3.0	13.56
	900	48YZ⊗	M099836.00∇	24	115/230	Auto.	3.0	11.55
900	56HZ*	111919.00□∇	40	115/230	Auto.	3.2	13.56	
3/4	1800	56HZ*	111324.00	34	115/230	Auto.	3.5	13.06
	1800	56H	111266.00	36	115/230	Auto.	3.5	12.31
	1200	56HZ*	111322.00□∇	44	115/230	Auto.	4.0	13.56
1	1800	56HZ	111267.00	39	115/230	Auto.	4.4	12.81

These motors have a 1.0 Service Factor

SINGLE PHASE • PSC TYPE • RIGID BASE TOTALLY ENCLOSED AIR OVER (TEAO)

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Over-load Prot.	F.L. Amps 230V	"C" Dim. (Inches)
1/4	1800	48Y	101252.00∇	19	115/208-230	Auto.	1.5	10.90
	1800	48Y	100699.00	19	115/230	Auto.	1.4	10.65
	1800	48Y	M099799.00	19	115/230	Auto.	1.5	10.79
	1200	48Y	M099260.00	21	115/230	Auto.	1.2	10.83
1/3	1800	48Y	M090253.00∇	22	115/230	Auto.	1.8	10.47
	1800	48Y	101253.00∇	22	115/208-230	Auto.	1.9	10.65
	1800	48Y	100700.00	22	115/230	Auto.	1.6	10.65
	1800	56Y	111202.00①	24	115/230	Auto.	1.7	12.00
	1800	48Y	M099800.00	22	115/230	Auto.	1.8	10.79
	1200	48Y	M099261.00	21	115/230	Auto.	1.5	11.34
1200	S56Y	100604.00	23	115/230	Auto.	1.8	11.40	
1/2	1800	S56Y	101176.00/∇	26	115/230	Auto.	3.5	10.40
	1800	48Y	100701.00	29	115/230	Auto.	2.5	12.15
	1800	48Y	M099801.00	29	115/230	Auto.	2.5	10.79
	1200	48Y	M099946.00	26	115/230	Auto.	2.5	11.81
3/4	1200	56HZ	M099847.00	36	115/230	Auto.	3.6	13.56

THREE-PHASE - OPEN DRIP PROOF - RIGID BASE

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	Eff.	"C" Dim. (Inches)
15	1800	254T	170540.60	279	208-230/460	37.0	93.0	20.9
20	1800	256T	170541.60	324	208-230/460	51.0	93.0	22.6
30	1800	286T	170542.60	471	208-230/460	71.0	93.6	23.5

AERATION FAN MOTORS BELT-DRIVEN • DUST-TIGHT

Totally enclosed air over motors, dust-tight, suitable for shaft-mounted fans or belt driven fans. Capacitor start designs. Designed to be used within the airflow of the driven fan, these motors offer protection from the environment and are finished in epoxy enamel to resist corrosion in tough atmospheres. Lubricated with high temperature Exxon POLYREX® EM lubricant. Grounding provisions. Fully gasketed. Single phase motors have built-in terminal panel for quick, easy connections.



CROP DRYER MOTORS

Open air over, fan-on-shaft design motors for crop drying applications. Designed for continuous duty operation. Class F insulation system. Thermostats provide thermal overload protection on all units. Extra nameplate included for remote mounting. Keyed shaft with 1/4-20 UNC tapped hole in end.



Capacitors supplied on single phase models. All models include sealed bearings, rodent screens, gray epoxy paint and 3/4" leads exiting the motor at 12 o'clock.

GRAIN STIRRING MOTORS DUST-TIGHT

Dust-Tight Motors designed to operate inside agricultural storage bins for stirring grain, corn and other agricultural products.

Mechanical Features:

External cast aluminum cooling fan at shaft end keeps grain from obstructing fan operation. Prelubricated double shielded ball bearings packed with Exxon POLYREX® EM grease (temperature range -20°F to +350°F). Totally enclosed construction with gasketed conduit box and capacitor cases. Moisture drain hole in endshield opposite shaft for vertical shaft up mounting. Rugged 205 bearing shaft-end. Shaft is 7/8" diameter, useable length of 15/16". "BA" dimension is 35/8".

Electrical Features:

Energy-saving, extra high torque designs.



SINGLE PHASE • CAPACITOR START • TEAO • RIGID BASE

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Over-load Prot.	F.L. Amps 230V	"C" Dim. (Inches)
3/4	3600	56	111332.00 [Ⓣ]	27	115/230	None	5.0	10.90
1	3600	56	111333.00 [Ⓣ]	29	115/230	None	6.0	10.90
1½	3600	56	111949.00 [Ⓣ]	32	115/230	None	8.5	11.40
		143TZ	120374.00 [Ⓢ]	31	115/230	None	8.5	11.84
2	3600	145TZ	120375.00 [Ⓢ]	41	230	None	10.0	13.34
3	3600	145T	120376.00 [☆]	45	230	None	12.8	13.84

THREE PHASE • TEAO • RIGID BASE

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
3/4	3600	56Z	111334.00 [Ⓣ]	21	208-230/460	2.4	75.5	9.90
1	3600	56Z	111335.00 [Ⓣ]	22	208-230/460	3.2	77.0	9.90
1½	3600	143TZ	120377.00 [Ⓢ]	31	208-230/460	4.2	82.5	11.34
		145TZ	120378.00 [Ⓢ]	34	208-230/460	5.6	82.5	11.84
3	3600	145T	120379.00 [Ⓢ]	38	230/460	7.6	84.0	12.34

SINGLE PHASE

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Over-load Prot.	F.L. Amps 230V	"C" Dim. (Inches)
5-7	3600	182TZ	131847.00	91	230	T-Stat	27.2-35.0	16.44
7.5-10	3600	182TZ	131848.00	95	230	T-Stat	31.0-42.0	16.44
10-15	3600	215TZ	140640.00	159	230	T-Stat	39.5-61.5	20.42
		215TZ	141084.00 [♣]	159	230	T-stats	40	20.08

♣ = Extra High Starting Torque

THREE PHASE

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Over-load Prot.	F.L. Amps 230V	"C" Dim. (Inches)
5-7.5	3600	184TZ	131849.00	70	208-230/460	T-Stat	19.0	13.94
7.5-10	3600	184TZ	131850.00	85	208-230/460	T-Stat	24.2	15.44
10-15	3600	215TZ	140641.00	95	208-220/440	T-Stat	40.0	17.41

SINGLE PHASE • RIGID BASE • TEFC

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Over-load Prot.	F.L. Amps 230V	"C" Dim. (Inches)
1½	1800	56HZ	111330.00 [☆]	42	115/208-230	Man.	8.6	12.31

THREE PHASE • RIGID BASE • TEFC

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
1½	1800	56HZ	111329.00	38	208-230/460	5.4	80.0	11.81

These Grain Stirring motors have NEMA Service Factor of 1.0

- Ⓣ Standard 5/8" diameter shaft with keyway plus 3/4" deep hole drilled and tapped to 1/4-20 UNC in end of shaft to facilitate mounting of some fan blades.
- Ⓢ Standard 7/8" diameter shaft with keyway plus 3/4" deep hole drilled and tapped to 1/4-20 UNC in end of shaft to facilitate mounting of some fan blades.
- ☆ Capacitor start/capacitor run design for reduced amperage, others are capacitor start/induction run.

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

CATFISH POND MOTORS

Specially designed for aeration systems used on aquaculture ponds, these motors are designed for dependable outdoor applications. Typically C-face connected to a right-angle gearbox and installed on a floating aeration platform.



Hi-torque motors are epoxy-painted with a corrosion-resistant interior coating. Stainless hardware, fan guard, lifting lug, and conduit box cover for maximum protection against corrosion. Drain holes in the conduit box and in four positions on each end of the frame to purge condensate and moisture that may enter the motor. Ball bearings are double-sealed and lubricated with Exxon POLYREX[®] EM high temperature, moisture resistant lubricant.

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

IRRIGATION BOOSTER PUMP MOTOR

Threaded-shaft jet pump motor for shaft-down mounting. TEFC with rain canopy. Locked bearing on shaft end, for longer motor life. Neoprene shaft flinger repels moisture. Drain holes in C face and conduit box. Epoxy paint and fully gasketed. Stator impregnated with extra-heavy varnish system.



IRRIGATION DRIVE MOTORS

Specially designed for pivoting irrigation systems exposed to severe weather environments and operating conditions.

Mechanical Features:

Double sealed ball bearings prelubricated with Exxon POLYREX[®] EM grease having an operating temperature range of -20°F to +350°F and special formulation to provide extra long life and moisture resistance. Moisture drain holes at shaft-end of motor. Die cast aluminum conduit box fully gasketed. Epoxy paint for corrosion resistance. Externally fan cooled with rain canopy over cooling fan, for shaft down mounting.



Electrical Features:

“Extra high” starting torque, Class “F” copper windings. Specially treated windings for excessive moisture conditions. Capable of multiple starts and stops. Automatic protector for overload and low voltage protection.

MILK TRANSFER PUMP MOTOR

General Specifications:

Totally enclosed non-ventilated motor. Direct replacement for Surge milk pumps, Babson motor #27732.



Mechanical Features:

Special moisture resistant design with double sealed ball bearings. Bearings and bearing cavities packed with high temperature moisture resistant lubricant. Drain holes to expel moisture and water. Epoxy paint.

Electrical Features:

Permanent split capacitor design for reliability and improved efficiency. High temperature Class F insulation system. Requires 30 MFD, 370 VAC capacitor, separately mounted – not supplied.

SINGLE AND THREE PHASE • C FACE WITH BASE • TEFC

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Phase	F.L. Amps 460V	“C” Dim. (Inches)
10	1800	215TC	140705.00*	204	230	1	40.0	20.71
	1800	215TC	140833.00	169	208-230/460	3	23.6	19.7

* Single phase motor has manual reset overload protection

THREE PHASE • IRRIGATION BOOSTER • TEFC

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	F.L. Amps 460V	% F.L. Eff.	“C” Dim. (Inches)
2	3600	56J	112991.00	33	460	2.8	84.0	14.34

C FACE LESS BASE • THREE PHASE • TEFC

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	“C” Dim. (Inches)
1	1800	56C	111304.00	30	460	2.4	75.0	12.34

These Irrigation Drive motors have a 1.25 Service Factor.

SINGLE PHASE • RIGID BASE • TENV

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Over-load Prot.	F.L. Amps 230V	“C” Dim. (Inches)
1/2	3600	56CZ	113939.00	42	230	None	4.5	13.07

LEESON® POULTRY MOTORS

SINGLE AND THREE PHASE

FEED-AUGER DRIVE MOTORS DUST-TIGHT

Dust-tight, capacitor start motor

with your choice of field proven electronic or protected mechanical starting switch—both eliminate damage caused when motor is over-speeded by obstructed auger.



Ball bearing, heavy duty industrial quality designs for high overload capacity. Side mounted conduit box. Flange mounts directly to drive assembly. Fully gasketed to keep out feed dust. Has screw driver slot in rear shaft. Continuous duty, with manual thermal overload protection. **Motors of 3/4 HP and less in the two adjacent charts have shaft of 1/2" diameter x 1 1/2" length, with flat; motors 1 HP and larger have 5/8" diameter x 1.97" length, with key.**

SINGLE PHASE • TEFC • 60 HERTZ

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Over-load Prot.	F.L. Amps 230V	"C" Dim. (Inches)
1/3	1800	48YZ	101159.00	21	115/230	Man.	3.1	10.47
	1800	48YZ	101435.00®	21	115/230	Man.	3.1	10.47
1/2	1800	48YZ	101120.00	22	115/208-230	Man.	4.0	10.72
	1800	48YZ	101436.00®	22	115/208-230	Man.	4.0	10.47
3/4	1800	48YZ	101119.00	24	115/208-230	Man.	5.4	11.47
	1800	48YZ	101437.00®	28	115/230	Man.	5.4	11.47
1	1800	56YZ	112615.00	35	115/230	Man.	7.0	12.11
	1800	56YZ	113302.00®	35	115/208-230	Man.	7.0	12.61
1 1/2	1800	56YZ	113280.00☆	47	115/208-230	Man.	6.5	13.62
	1800	56YZ	113301.00☆®	44	115/230	Man.	6.5	13.62

SINGLE PHASE • TEFC • 50 HERTZ

HP	SYN RPM 50 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Over-load Prot.	F.L. Amps 220V	"C" Dim. (Inches)
1/2	1800	48YZ	101643.00®A	26	110/220	Man.	4.0	11.47
3/4	1800	48YZ	101644.00®A	30	110/220	Man.	5.8	12.22
1	1800	56YZ	113906.00®A	39	110/220	Man.	6.4	12.61
1 1/2	1800	56YZ	113907.00®A	48	110/220	Man.	8.6	13.61

HATCHERY AND INCUBATOR FAN MOTORS



Cat. No. 101341



Cat. No. 114102

General Specifications:

Capacitor-type replacement motors for hatchery and incubator fan motors.

Catalog number 101341 is a permanent split capacitor motor for fan on shaft incubator fans. Band mounted, with 1" long extended through bolts for fan shroud. Shaft diameter 1/2" by 2 1/4", with full length flat. Connections in end of motor through 1/2"-14 NPT tap. UL Listed thermal overload. 15 MFD, 370V run capacitor shipped loose with motor.

SINGLE PHASE • TEAO

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Over-load Prot.	F.L. Amps 230V	"C" Dim. (Inches)
1/4	1800	48Y	101341.00	17	115/230	Auto.	1.4	8.93
1/2-0.22	1800/1200	56H	114102.00	33	115	Auto.	** 9.3-5.6	11.81

Catalog number 114102 is a split phase two-speed motor, dust-tight and totally enclosed for belt driven hatchery cooling fans. Resilient base. With UL Listed automatic thermal overload. Requires no capacitor.

Mechanical Features:

Double shielded ball bearings permanently lubricated with Exxon POLYREX® EM lubricant having a temperature range of -40°F to +320°F and special formulation for extra long life and moisture resistance.

FEATHER PICKER MOTORS

Motors with the dimensions to replace the MEYN drive motor. Phosphatized or stainless, drilled and tapped metric shaft for easy mounting. Special duty rating with extra high breakdown torques for superior performance on this demanding application. See page 25 for complete listing of WASHGUARD features.



Totally enclosed fan cooled construction, sealed bearings, condensate drains, USDA approved food-safe tough white epoxy finish.

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

THREE PHASE • TEFC

HP/KW	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
2	1800	145T	121934.00	54	208-230/460	7.0	86.5	14.76
2*	1200	184TZ	132246.00	96	230/460	7.2	88.5	15.96
2/1.5*	1200	112M▶	132247.00	96	230/460	7.2	88.5	15.96
3	1800	56HZ	115751.00■	45	208-230/460	8.6	82.5	14.25
	1800	145T	121944.00♣	45	230/460	8.6	82.5	14.25

Note: Catalog Number 115751 has a 303 stainless steel shaft.

- Combination 56HZ base has mounting holes for NEMA 56 and a standard NEMA 145T frame shaft of 7/8" diameter.
- ♣ These motors have a 1.5 continuous duty service factor, 3 HP continuous.
- ▶ IEC frame. See page 310 for dimensions.
- ☆ Capacitor start/capacitor run design for reduced amperage, others are capacitor start/induction run.
- ® Mechanical centrifugal starting switch with overspeed protection, others have electronic switch.
- ** F.L. Amps listed are for high speed and low speeds, respectively, at 115 volts.
- A Subject to Availability.
- ♣ Inverter Duty Only Motor

**INDUSTRY-AG • 115-208/230V • TEFC
1725 RPM • HIGH TORQUE
RIGID BASE**

Industry-Ag is a new line of heavy duty single phase hi-torque motors built to withstand the tough applications in industry and agriculture.

Mechanical Features: Gasketed capacitor housing and conduit boxes provide protection in all environments. Double sealed ball bearings provide extra bearing protection.

Rubber boot over manual protector reset button provides weather protection.

Electrical Features: Manual thermal protector protects against overload. Capacitor start provides high starting torque with normal starting current.



RIGID BASE • 115-208/230V • TEFC

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Over-load Prot.	F.L. Amps 230V	"C" Dim. (in.)
1/3	1800	56	M002256.00	24	115-208/230	Man.	2.9	11.00
1/2	1800	56	M009086.00	27	115-208/230	Man.	3.9	11.00
3/4	1800	56	M009087.00	30	115-208/230	Man.	5.0	11.50
1	1800	56	M009088.00	34	115-208/230	Man.	6.8	11.50
1½	1800	56	M009089.00	41	115-208/230	Man.	9.0	12.88
2	1800	56HZ	M009090.00	48	230Man.	9.5	14.00	
C Flange		56	M064076.00	3	—	—	—	—

C FACE LESS BASE • 115-208/230 • TEFC

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Over-load Prot.	F.L. Amps 230V	"C" Dim. (in.)
1/3	1800	56C	M002290.00	24	115-208/230	Man.	2.9	10.81
1/2	1800	56C	M009492.00	27	115-208/230	Man.	3.9	10.81
3/4	1800	56C	M009493.00	30	115-208/230	Man.	5.0	11.31
1	1800	56C	M009494.00	34	115-208/230	Man.	6.8	11.81

**VARIABLE SPEED
HIGH-PERFORMANCE
AG FAN MOTORS**

The all new **PERFORMA+** brings fan motor performance to a new level. These high-efficiency motors feature exceptional variable speed performance.

Features:

Water-tight connection end compartment with removable cover, houses the capacitor, thermal protector and wiring—allowing unimpeded airflow over the motor frame.

Locked, double-sealed bearings for all angle mounting, including vertical shaft up.

Oil seal in drive end repels moisture and contaminants.

Class F insulation with Class B rise.

Permanent split capacitor type design eliminates the centrifugal switch for "three phase" type reliability.

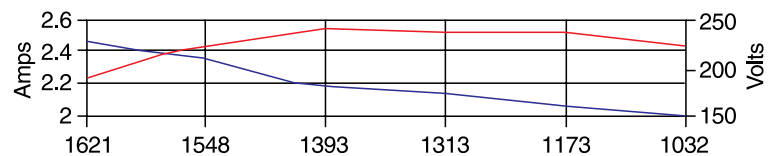
Automatic thermal overload protection.



TEAO • RIGID BASE • EXTENDED THRU-BOLTS

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Over-load Prot.	F.L. Amps 230V	Shaft Length (in.)	"C" Dim. (in.)
1/4	1800	48Y	M099899.00	18	115-208/230	Auto.	1.3	2	11.30
	1200	48Y	M099460.00	21	115/208-230	Auto.	1.3	2	11.80
1/3	1800	48Y	M099900.00	19	115-208/230	Auto.	1.8	2	11.30
	1200	48Y	M099461.00	22	115/208-230	Auto.	1.9	2	11.80
1/2	1800	48Y	M099901.00	22	115-208/230	Auto.	2.6	2	11.70
	1200	48Y	M099462.00	25	115/208-230	Auto.	2.8	2	12.20

PERFORMA+ Fan Motor Performance @ 0.05 Inches S.P.



Variable speed graph for catalog M099901 using a Norsol Vari-Vent control.



**AGRICULTURAL FAN MOTORS
BELT DRIVE • TEAO**

FHP motors designed for use in agricultural belted fan applications. These motors feature capacitor start/capacitor run configuration for hi-efficiency. They should be mounted in the airstream for proper cooling. They also feature a heavy gauge steel frame with rigid 56/140 combination base.



HIGH-EFFICIENCY • SINGLE PHASE

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Eff.	Over-load Prot.	F.L. Amps 230V	"C" Dim. (in.)
1/2	1800	56	M009580.00	27	115/208-230	—	—	—	—
3/4	1800	56H	M009581.00	30	115/208-230	82	Auto.	3.4	10.83
1	1800	56H	M009782.00	37	115/208-230	85	Auto.	4.3	11.80
1½	1800	56H	M009594.00	39	115/208-230	78	Auto.	6.8	12.60
2	1800	145T	M009595.00 ^①	47	230	82	Auto.	9.5	12.80

^① Motor M009595 has a frame mounted conduit box.

Features:

- Two designs to choose from: High Torque (HT) and Extra High Torque (EHT)
- Fully gasketed construction and shaft slingers for operation in dirty environments
- Manual reset thermal protector
- Condensate drains
- Continuous duty

Applications:

High Torque – HT

Feeders, conveyors, fans, compressors, spray washers, grinders, elevators, pumps and other demanding agricultural applications that require high starting torque.

Extra High Torque – EHT

Silo unloaders, barn cleaners, bunk feeders, conveyors, and other machinery requiring extra high starting torque in demanding farm duty environments. Motors have 300% and greater starting torque.



HIGH TORQUE - HT

HP	SYN RPM	Frame	SF	Volts	Model Number	Product Number	Notes	Approx Shpg Wght (lbs)
1/3	1800	56	1.15	115/208-230	SRF4S0.33T1C6028AP7TP1	LM24789	ML	24
1/2	1800	56	1.15	115/208-230	SRF4S0.5T1C6028AP7TP1	LM24790	ML	25
3/4	1800	56	1.15	115/208-230	SRF4S0.75T1C6028AP7TP1	LM24791	ML	30
1	1800	56	1.15	115/208-230	SRF4S1T1C6028AP7TP1	LM24792	ML	32
	1800	143T	1.15	115/208-230	SSF4S1T1C6028AP7TP1	LM24793	ML	35
1 1/2	1800	56H*	1.15	115/208-230	SRF4S1.5T1B6028AP7TP1	LM24794	ML	41
	1800	145T	1.15	115/208-230	SSF4S1.5T1B6028AP7TP1	LM24795	ML	42
2	1800	182T	1.15	115/230	SS182F4S2T1C6027AP7TP1	LM24796	ML	64
3	1800	184T	1.15	230	SS184F4S3T1C66AP7TP1	LM24797	ML	92
5	1800	184T	1.15	230	SSF4S5T1B66AP7TP1	LM24798	ML	90
7 1/2	1800	215T	1.15	230	SS215F4S7.5T1B66AP7TP1	LM24799	ML	130

EXTRA HIGH TORQUE - EHT

HP	SYN RPM	Frame	SF	Volts	Model Number	Product Number	Notes	Approx Shpg Wght (lbs)
2	1800	182TZ	1.15	115/230	SS182F4S2TZ1C6027AP8TP1-1	LM24800	ML	67
3	1800	184T	1.15	230	SS184F4S3T1C66AP8TP1	LM24801	ML	85
5	1800	184T	1.15	208-230	SSF4S5T1B6008AP8TP1	LM24802	ML	125
	1800	213TZ	1.15	230	SS213F4S5TZ1B66AP8TP1-1	LM24803	ML	126
7 1/2	1800	215TZ	1.15	230	SS215F4S7.5TZ1B66AP8TP1-1	LM24804	ML	125
10	1800	215T	1.00	230	SSF4S10T1B66AP8TP1	LM24805	ML	150

*56H, 143T and 145T Combination Base with 12 mounting holes.
ML = Manual Overload Protection

Product numbers in red are STOCK items.

Specifications are subject to change without notice

Signature Series **AGRICULTURE FAN**
 115/230 VOLTS • 1-PHASE
 FOOT MOUNT, BELT DRIVE • OVERLOAD PROTECTION
 1/2 TO 1 HP



Features:

- Capacitor start/capacitor run design for higher efficiency and reduced current draw
- Ball bearings
- Continuous duty
- Fully gasketed

Applications:

Designed for demanding agricultural belt drive fan applications such as poultry house fans and barn exhaust fans. The 1 HP model is totally enclosed, air over and must be mounted in the airstream for proper cooling.



HP	SYN RPM	Frame	SF	Volts	Model Number	Product Number	Notes	Approx Shpg Wght (lbs)
1/2	1800	56Z	1.00	115/230	SRN4S0.5TZ1B6027TP2-1	LM24776	AT	21
1	1800	56Z	1.00	115/230	SRA4S1TZ1B6027TP2-1	LM24777	AT	32

AT = Automatic Overload Protection

Signature Series **AGRICULTURE FAN**
 115/230 VOLTS • 1-PHASE, PSC VARIABLE SPEED
 RESILIENT BASE-THRU BOLT • OVERLOAD PROTECTION
 1/4 TO 1/2 HP



Features:

- TEAO, continuous duty
- Extended thru bolts
- 1/2" dia. x 2-1/2" long shaft with two flats, 90° apart
- Fully gasketed

Applications:

Designed for demanding agricultural fan applications such as poultry house and barn exhaust fans. Must be mounted in the airstream for proper cooling.



Variable speed capabilities when used with a single-phase speed control unit – NOT supplied by Lincoln. AP11 models are designed for lower temperature rise throughout a greater speed range.

HP	Speed (RPM)	Frame	SF	Volts	Model Number	Product Number	Notes	Approx Shpg Wght (lbs)
1/4	1625	48Z	1.00	115/230	SPA4S0.25TZRY1A6027AP11-1	LM24445	AT	20
	1625	48Z	1.00	115/230	SPA4S0.25TZRY1A6027AP10-1	LM24447	AT	17
	1075	48Z	1.00	115/230	SPA6S0.25TZRY1A6027AP10-1	LM24442	AT	14
1/3	1625	48Z	1.00	115/230	SPA4S0.33TZRY1A6027AP11-1	LM24450	AT	23
	1625	48Z	1.00	115/230	SPA4S0.33TZRY1A6027AP10-1	LM24448	AT	17
	1075	48Z	1.00	115/230	SPA6S0.33TZRY1A6027AP10-1	LM24443	AT	15
1/2	1625	48Z	1.00	115/230	SPA4S0.5TZRY1A6027AP11-1	LM24446	AT	23
	1625	48Z	1.00	115/230	SPA4S0.5TZRY1A6027AP10-1	LM24449	AT	21
	1075	48Z	1.00	115/230	SPA6S0.5TZRY1A6027AP10-1	LM24444	AT	19

AT = Automatic Overload Protection

Product numbers in red are STOCK items.

Specifications are subject to change without notice



Signature Series AGRICULTURE FAN

**115 VOLTS • 1-PHASE
DIRECT DRIVE-THRU BOLT • OVERLOAD PROTECTION
1/4 TO 1/3 HP**

Features:

- Totally Enclosed
- 1/2" extended thru-bolts
- Shafts:
48Y frame – 1/2" dia. x 1-1/2" long shaft with flat
48YZ frame – 1/2" dia. x 2-1/2" long shaft with two flats, 90° apart
- Continuous duty
- Fully gasketed



Applications:

Designed for demanding direct drive agricultural fan applications such as poultry house fans and barn exhaust fans.

Two speed designs must be mounted in airstream for proper cooling.

SINGLE SPEED

HP	Speed (RPM)	Frame	SF	Volts	Model Number	Product Number	Notes	Approx Shpg Wght (lbs)
1/4	1725	48Y	1.00	115	SPN4S0.25TZNY1S6001TP1-1	LM24488	ML	10

TWO SPEED

HP	Speed (RPM)	Frame	SF	Volts	Model Number	Product Number	Notes	Approx Shpg Wght (lbs)
1/4	1725/1140	48YZ	1.00	115	SPA4/6/1S0.25/0.25TZNY1S6001TP2-1	LM24492	AT	17
1/3	1725/1140	48YZ	1.00	115	SPA4/6/1S0.33/0.33TZNY1S6001TP2-1	LM24491	AT	18

AT = Automatic Overload Protection
ML = Manual Overload Protection



Signature Series AGRICULTURE FAN

**115 & 230 VOLTS • 1-PHASE
RESILIENT BASE-THRU BOLT • OVERLOAD PROTECTION
1/4 TO 1/2 HP**

Features:

- Totally Enclosed, Air Over
- Extended thru-bolts on 48Z frame
- Shafts:
48Z – 1/2" diameter x 2-1/2" long shaft with two flats
56Z – 1/2" diameter x 2-1/2" long shaft with key
- Includes 5/8" dia. shaft adapter sleeve with key
- Continuous duty
- Fully gasketed



Applications:

Designed for demanding agricultural fan applications such as poultry house fans and barn exhaust fans.

Motor must be mounted in airstream for proper cooling.

HP	SYN RPM	Frame	SF	Volts	Model Number	Product Number	Notes	Approx Shpg Wght (lbs)
1/4	1800	48Z	1.00	115	SPA4S0.25TZRY1S6001TP2-1	LM24487	AT	17
1/3	1800	48Z	1.00	115	SPA4S0.33TZRY1S6001TP2-1	LM24486	AT	21
1/2	1800	56Z	1.00	115/230	SRA4S0.5TZR1S6027TP2-1	LM24809	AT	24

AT = Automatic Overload Protection

Product numbers in red are STOCK items.

Specifications are subject to change without notice

Features:

- Totally Enclosed, Air Over
- Capacitor start design provides high starting torque
- 18" leads for ease of connection
- Shaft has keyway and 1/4-20 UNC tapped hole
- Double sealed ball bearings for maintenance free operation.
- Warranty: 18 months from date of manufacture and 12 months from date of installation which ever period expires first.

Applications:

Direct drive vane axial fans. These TEAO motors must be mounted in airstream for proper cooling.

*56H, 143T and 145T Combination Base with 12 mounting holes.

HP	SYN RPM	Frame	SF	Volts	Model Number	Product Number	Notes	Approx Shpg Wght (lbs)
1	3600	56Z	1.15	115/230	SRA2S1TZ1C6027L10MB6TP2-1	LM24786	AT	29
1 1/2	3600	143TZ*	1.15	115/230	SSA2S1.5TZ1C6027L10MB6TP2-1	LM24787	AT	35
3	3600	145TZ*	1.15	230	SS145A2S3TZ1B66L10MB6TP2-1	LM24788	AT	52

AT = Automatic Overload Protection

Features:

- Totally Enclosed, Fan Cooled
- NEMA "N", two bolt flange mounting
- Shafts:
 - 3/4 HP & smaller - 1/2" dia. x 1-1/2" long with flat
 - 1 HP & larger - 5/8" dia. x 2" long with key
- Continuous duty
- Fully gasketed, side mounted terminal box
- Mechanical start switch protected from overspeeded auger drive
- Extended fan-end shaft with flats for manually jogging auger drive
- Warranty: 18 months from date of manufacture and 12 months from date of installation which ever period expires first.

**Applications:**

Replacement motors for poultry feed auger drive systems. Bolts to existing gearbox for easy installation.

HP	SYN RPM	Frame	SF	Volts	Model Number	Product Number	Notes	Approx Shpg Wght (lbs)
1/3	1800	48N	1.00	115/230	SPF4S0.33TADN1C6027TP1	LM24462	ML	23
1/2	1800	48N	1.00	115/230	SPF4S0.5TADN1C6027TP1	LM24463	ML	23
3/4	1800	56NZ	1.00	115/208-230	SRF4S0.75TZADN1C6028TP1-1	LM24812	ML	31
1	1800	56NZ	1.00	115/208-230	SRF4S1TZADN1C6028TP1-1	LM24813	ML	32
1 1/2	1800	56NZ	1.00	115/208-230	SRF4S1.5TZADN1C6028TP1-1	LM24814	ML	41

ML = Manual Overload Protection

Product numbers in red are STOCK items.

Specifications are subject to change without notice



Signature Series CROP DRYER

230 VOLTS • 1-PHASE & 208-220/440 VOLTS • 3-PHASE
FOOT MOUNT • OVERLOAD PROTECTION
3 TO 15 HP

Features:

- Dripproof/Air Over, continuous duty
- Maintenance-free double sealed ball bearings
- Keyed shaft with 1/4-20 UNC tapped hole in end
- 40" long leads for ease of installation (1-phase)
- 30" long leads exit elbow connector (3-phase)
- Fully gasketed terminal box
- Special rotor balance for reduced vibration
- Epoxy coated rotor
- Warranty: 18 months from date of manufacture and 12 months from date of installation which ever period expires first.
- Frame mounted capacitors on LM24778-80.
Capacitors shipped loose on LM24781-82.
- Extra nameplate included for remote mounting

Applications:

Crop dryers with air over/fan on shaft designs.



SINGLE PHASE

HP	SYN RPM	Frame	SF	Volts	Model Number	Product Number	Notes	Approx Shpg Wght (lbs)
3 - 4 1/2	3600	145TZ	1.00	230	SSD2S3-4.5TZ1B66QS10-1	LM24778	AT	46
5 - 7	3600	184TZ	1.00	230	SS184D2S5-7TZ1C66QS11-1	LM24779	TT	76
7 - 10	3600	184TZ	1.00	230	SSD2S7-10TZ1B66QS11-1	LM24780	TT	102
7 - 9	3600	184TZ	1.00	230	SSD2S7-9TZ1C66QS11-1	LM24781	TT	88
10 - 15	3600	215TZ	1.00	230	SS215D2S10-15TZ1C66QS11-1	LM24782	TT	135

THREE PHASE

HP	SYN RPM	Frame	SF	Volts	Model Number	Product Number	Notes	Approx Shpg Wght (lbs)
5 - 7	3600	184TZ	1.00	208-220/440	SS184D2S5-7TZ6029QS12-1	LM24783	TT	70
7 - 10	3600	184TZ	1.00	208-220/440	SSD2S7-10TZ6029QS12-1	LM24784	TT	83
10 - 15	3600	215TZ	1.00	208-220/440	SS215D2S10-15TZ6029QS12-1	LM24785	TT	115

AT = Automatic Overload Protection
TT = Thermostat Overload Protection



Signature Series GRAIN STIRRING

115/208-230 VOLTS • 1-PHASE
FOOT MOUNT
1-1/2 HP

Features:

- TEFC, continuous duty
- Maintenance-free double sealed ball bearings
- 7/8" diameter shaft
- Fully gasketed construction and fan/fan guard on shaft end keep grain dust out of motor
- Warranty: 18 months from date of manufacture and 12 months from date of installation which ever period expires first.

Applications:

Grain stirring systems inside grain bins.



HP	SYN RPM	Frame	SF	Volts	Model Number	Product Number	Notes	Approx Shpg Wght (lbs)
1 1/2	1800	56HZ	1.15	115/208-230	SRF4S1.5TZ1B6028AP9-2	LM24521		47

Product numbers in red are STOCK items.

Specifications are subject to change without notice