

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 5/8" 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"

VENTILATION  
FAN MOTOR  
SHAFT-MOUNTED •  
DUST-TIGHT

Totally enclosed, high efficiency, permanent split capacitor motor for direct drive exhaust ventilation fans in poultry and livestock houses. Fully gasketed, dust-tight construction with sealed bearings and shaft slinger. Automatic thermal overload protector. Extended through-bolts for mounting, no base. Built-in terminal panel for quick, easy connection. Grounding provision.



Because of the inherently low starting torque of this design, this motor is not suitable for belt-driven fan applications. It must be mounted in the air stream of the fan for cooling.

SINGLE PHASE • PSC • TEAO • RESILIENT BASE

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Disc. Sym.	App. Wgt. (lbs.)	Voltage	Over- load Prot.	F.L. Amps 230V	"C" Dim. (Inches)
1/4	1625	48Z*	100803	A	19	115/230	Auto.	1.4	10.66
	1075	48Z*	100824	A	20	115/230	Auto.	1.4	10.66
	1075	S56Z*	100805	A	22	115/230	Auto.	1.4	11.06
1/3	1625	48Z*	100804	A	21	115/230	Auto.	1.6	10.66
	1625	S56H	100767	A	22	115/230	Auto.	1.6	10.31
	1625	56HY	111348	A	24	115/230	Auto.	1.7	13.44
	1075	48Z*	100825	A	25	115/230	Auto.	1.8	11.16
	1075	S56HZ*	100806	A	27	115/230	Auto.	1.8	11.56
	1075	56HZ*	111323	A	30	115/230	Auto.	2.6	12.56
1/2	1625	S56H	100768	A	36	115/230	Auto.	2.2	10.81
	1075	48Z*	101645	A	33	115/230	Auto.	2.8	11.16
	1075	56HZ*	111321□	A	37	115/230	Auto.	3.0	13.56
	850	48YZ⊙	M099836∇	A	24	115/230	Auto.	3.0	11.55
	825	56HZ*	111919□∇	A	40	115/230	Auto.	3.2	13.56
	1075	56HZ*	111324	A	34	115/230	Auto.	3.5	13.06
3/4	1625	56H	111266	A	36	115/230	Auto.	3.5	12.31
	1075	56HZ*	111322□∇	A	44	115/230	Auto.	4.0	13.56
	1625	56HZ	111267	A	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	RPM 60 Hz	NEMA Frame	Catalog Number	Disc. Sym.	App. Wgt. (lbs.)	Voltage	Over- load Prot.	F.L. Amps 230V	"C" Dim. (Inches)
1/4	1750	48Y	101252∇	A	19	115/208-230	Auto.	1.5	10.90
	1625	48Y	100699	A	19	115/230	Auto.	1.4	10.65
	1625	48Y	M099799	A	19	115/230	Auto.	1.5	10.79
	1075	48Y	M099260	A	21	115/230	Auto.	1.2	10.83
1/3	1725	48Y	M090253∇	A	22	115/230	Auto.	1.8	10.47
	1750	48Y	101253∇	A	22	115/208-230	Auto.	1.9	10.65
	1625	48Y	100700	A	22	115/230	Auto.	1.6	10.65
	1625	56Y	111202①	A	24	115/230	Auto.	1.7	12.00
	1625	48Y	M099800	A	22	115/230	Auto.	1.8	10.79
	1075	48Y	M099261	A	21	115/230	Auto.	1.5	11.34
1/2	1140	S56Y	100604	A	23	115/230	Auto.	1.8	11.40
	1750	S56Y	101176,∇	A	26	115/230	Auto.	3.5	10.40
	1625	48Y	100701	A	29	115/230	Auto.	2.5	12.15
	1625	48Y	M099801	A	29	115/230	Auto.	2.5	10.79
3/4	1075	48Y	M099946	A	26	115/230	Auto.	2.5	11.81
	1075	56HZ	M099847	A	36	115/230	Auto.	3.6	13.56

SINGLE PHASE • TEAO • THRU BOLT MOUNT

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Disc. Sym.	App. Wgt. (lbs.)	Voltage	Over- load Prot.	F.L. Amps 230V	"C" Dim. (Inches)
1/3	1625	48Y	M090085	A	20	115/230	Auto.	1.8	10.79
1/2	1625	48Y	M090086	A	22	115/230	Auto.	2.5	10.79
	825	56Z	114620∇	A	35	115/230	Auto.	3.2	12.63
	850	48Y	M099250∇	A	24	115/230	Auto.	3.0	11.00

SINGLE & THREE PHASE • TEAO • C FACE LESS BASE

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Disc. Sym.	App. Wgt. (lbs.)	Voltage	Over- load Prot.	Phase	F.L. Amps 230V	"C" Dim. (Inches)
1/2	850	S56C	M099251∇	A	24	115/230	Auto.	1	3.0	10.40
1	850	S56CZ	M009644∇*	A	45	230	Auto.	1	4.6	15.60
1/2	850	56C	116201	A	35	208-230/460	...	3	3.0	10.90
1	850	56C	116202	A	45	208-230/460	...	3	5.0	12.90

# AGRICULTURAL MOTORS GENERAL PURPOSE, FAN AND BLOWER - SINGLE PHASE



## 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	RPM 60 Hz	NEMA Frame	Catalog Number	Disc. Sym.	App. Wgt. (lbs.)	Voltage	Over- load Prot.	F.L. Amps 230V	"C" Dim. (in.)
1/3	1725	56	<b>M002256</b>	A	24	115-208/230	Man.	2.9	11.00
1/2	1725	56	<b>M009086</b>	A	27	115-208/230	Man.	3.9	11.00
3/4	1725	56	<b>M009087</b>	A	30	115-208/230	Man.	5.0	11.50
1	1725	56	<b>M009088</b>	A	34	115-208/230	Man.	6.8	11.50
1½	1725	56	<b>M009089</b>	A	41	115-208/230	Man.	9.0	12.88
2	1725	56HZ	<b>M009090</b>	A	48	230	Man.	9.5	14.00
C Flange		56	<b>M064076</b>	A	3	—	—	—	—

## C FACE LESS BASE • 115-208/230 • TEFC

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Disc. Sym.	App. Wgt. (lbs.)	Voltage	Over- load Prot.	F.L. Amps 230V	"C" Dim. (in.)
1/3	1725	56C	<b>M002290</b>	A	24	115-208/230	Man.	2.9	10.81
1/2	1725	56C	<b>M009492</b>	A	27	115-208/230	Man.	3.9	10.81
3/4	1725	56C	<b>M009493</b>	A	30	115-208/230	Man.	5.0	11.31
1	1725	56C	<b>M009494</b>	A	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.

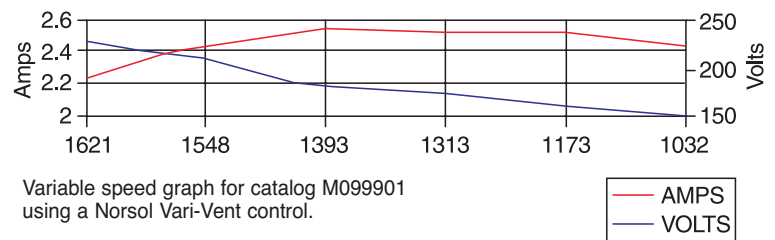


Locked, double-sealed bearings for all angle mounting, including vertical shaft up.  
Oil seal in drive end repels moisture and contaminants.  
Class F insulation with Class B rise.  
Permanent split capacitor type design eliminates the centrifugal switch for "three phase" type reliability.  
Automatic thermal overload protection.

## TEAO • RIGID BASE • EXTENDED THRU-BOLT S

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Disc. Sym.	App. Wgt. (lbs.)	Voltage	Over- load Prot.	F.L. Amps 230V	Shaft Length (in.)	"C" Dim. (in.)
1/4	1625	48Y	<b>M099899</b>	A	18	115-208/230	Auto.	1.3	2	11.30
	1075	48Y	<b>M099460</b>	A	21	115/208-230	Auto.	1.3	2	11.80
1/3	1625	48Y	<b>M099900</b>	A	19	115-208/230	Auto.	1.8	2	11.30
	1075	48Y	<b>M099461</b>	A	22	115/208-230	Auto.	1.9	2	11.80
1/2	1650	48Y	<b>M099901</b>	A	22	115-208/230	Auto.	2.6	2	11.70
	1075	48Y	<b>M099462</b>	A	25	115/208-230	Auto.	2.8	2	12.20

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



## 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	RPM 60 Hz	NEMA Frame	Catalog Number	Disc. Sym.	App. Wgt. (lbs.)	Voltage	Over- load Prot.	F.L. Amps 230V	"C" Dim. (in.)
1/2	1725	56	<b>M009580</b>	A	27	115/208-230	—	—	—
3/4	1725	56H	<b>M009581</b>	A	30	115/208-230	82	Auto.	3.4
1	1725	56H	<b>M009782</b>	A	37	115/208-230	85	Auto.	4.3
1½	1725	56H	<b>M009594</b>	A	39	115/208-230	78	Auto.	6.8
2	1725	145T	<b>M009595</b> <sup>①</sup>	A	47	230	82	Auto.	9.5

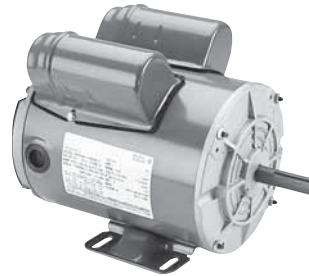
① Motor M009595 has a frame mounted conduit box.

*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
- Warranty: 18 months from date of manufacture and 12 months from date of installation which ever period expires first.
- Made in U.S.A.



**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 (see page 306)	Approx Shpg Wght (lbs)	Mult Sym
1/2	1800	56Z	1.00	115/230	SRN4S0.5TZ1B6027TP2-1	LM24776	AT	21	AG-1
1	1800	56Z	1.00	115/230	SRA4S1TZ1B6027TP2-1	LM24777	AT	32	AG-1

*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
- Warranty: 18 months from date of manufacture and 12 months from date of installation which ever period expires first.
- Made in U.S.A.



**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 (see page 306)	Approx Shpg Wght (lbs)	Mult Sym
1/4	1625	48Z	1.00	115/230	SPA4S0.25TZRY1A6027AP11-1	LM24445	AT	20	AG-1
	1625	48Z	1.00	115/230	SPA4S0.25TZRY1A6027AP10-1	LM24447	AT	17	AG-1
	1075	48Z	1.00	115/230	SPA6S0.25TZRY1A6027AP10-1	LM24442	AT	14	AG-1
1/3	1625	48Z	1.00	115/230	SPA4S0.33TZRY1A6027AP11-1	LM24450	AT	23	AG-1
	1625	48Z	1.00	115/230	SPA4S0.33TZRY1A6027AP10-1	LM24448	AT	17	AG-1
	1075	48Z	1.00	115/230	SPA6S0.33TZRY1A6027AP10-1	LM24443	AT	15	AG-1
1/2	1625	48Z	1.00	115/230	SPA4S0.5TZRY1A6027AP11-1	LM24446	AT	23	AG-1
	1625	48Z	1.00	115/230	SPA4S0.5TZRY1A6027AP10-1	LM24449	AT	21	AG-1
	1075	48Z	1.00	115/230	SPA6S0.5TZRY1A6027AP10-1	LM24444	AT	19	AG-1

Prices and data subject to change without notice.

Product numbers in red are STOCK items.



*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
- Warranty: 18 months from date of manufacture and 12 months from date of installation which ever period expires first.
- Made in U.S.A.



**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 (see page 306)	Approx Shpg Wght (lbs)	Mult Sym
1/4	1725	48Y	1.00	115	SPN4S0.25TZNY1S6001TP1-1	<b>LM24488</b>	ML	10	AG-1

**TWO SPEED**

HP	Speed (RPM)	Frame	SF	Volts	Model Number	Product Number	Notes (see page 306)	Approx Shpg Wght (lbs)	Mult Sym
1/4	1725/1140	48YZ	1.00	115	SPA4/6/1S0.25/0.25TZNY1S6001TP2-1	<b>LM24492</b>	AT	17	AG-1
1/3	1725/1140	48YZ	1.00	115	SPA4/6/1S0.33/0.33TZNY1S6001TP2-1	<b>LM24491</b>	AT	18	AG-1

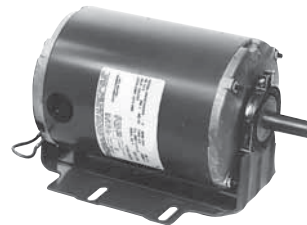


*Signature Series* AGRICULTURE FAN

**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
- Warranty: 18 months from date of manufacture and 12 months from date of installation which ever period expires first.
- Made in U.S.A.



**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 (see page 306)	Approx Shpg Wght (lbs)	Mult Sym
1/4	1800	48Z	1.00	115	SPA4S0.25TZRY1S6001TP2-1	<b>LM24487</b>	AT	17	AG-1
1/3	1800	48Z	1.00	115	SPA4S0.33TZRY1S6001TP2-1	<b>LM24486</b>	AT	21	AG-1
1/2	1800	56Z	1.00	115/230	SRA4S0.5TZR1S6027TP2-1	<b>LM24809</b>	AT	24	AG-1

Prices and data subject to change without notice.

**Product numbers in red are STOCK items.**