Modular Fan System

57” External Mount Composite Fan

ACME

Est. 1938

ACME ENGINEERING & MANUFACTURING CORPORATION / MUSKOGEE, OKLAHOMA

Think ACME

MFS57 Composite Butterfly Fan

The external mount design of the MFS57 fan allows for closer installation from fan to fan. Our precision injection molded composite housing is more accurate and structurally stable than a thermal formed PVC housing. The custom proprietary blend of composite polymer material is impervious to most chemicals while the injection molding allows for better airflow and aesthetically pleasing look. Made from 15% post recycled plastic.

Key Features: Belt Drive

- MFS57 fan uses a military-grade polymer material that is UV and chemical resistant.
- Injection molded housing for repeatable precision fit of parts and allows for accurate tip clearance.
- Stable polymer blend has less shrinkage than fiberglass.
- Housing will fit on 60” centers with a 57” frameout.
- Optional large or small cone design.
- External mount design with integral supports to tie the fan to the frameout.
- Blow molded butterfly door insures a precision surface with structural integrity to remain flat and true.
- P seal allows the butterfly to fully seal around the perimeter.
- New tier 1 sealed bearing design with labyrinth type seal used in our captured bearing design.
- American made motors are the only option for the MFS57 fan.
- The modular design will also allow for a wall box and gravity intake shutter as an option.

MFS57 Composite Butterfly Fan

MFS57 Belt Drive Single Phase

BESS	HP	TOL	Volts	Test Volts	Ph	Hz	RPM	0.10″			25 Pa		
								CFM	Power (W)	CFM/Watt	m3/hr	(m3/hr)/W	W/1000m3/hr
19180	1.5	TOL	115/208-230	230	1	60	441	31300	1538	20.3	53100	34.5	29
19181	1.5	TOL	115/208-230	230	1	60	439	31400	1522	20.7	53400	35.1	28
19182	1.5	TOL	115/208-230	230	1	60	444	32027	1580	20.3	54400	34.4	29
19187	1.5	TOL	115/208-230	230	1	60	411	29224	1287	22.7	49700	38.6	26
19179	1.5	NO	230	230	1	**50***	423	30000	1432	21.0	51000	35.6	28

* These motors are 50Hz only and are not to be used in a 60Hz application

MFS57 Belt Drive 3 Phase

BESS	HP	TOL	Volts	Test Volts	Ph	Hz	RPM	0.10”			25 Pa		
								CFM	Power (W)	CFM/Watt	m3/hr	(m3/hr)/W	W/1000m3/hr
19173	1.5	VFD	230/460	230	3	60	446	31800	1502	21.2	54000	36.0	28
19174	1.5	VFD	230/460	230	3	60	463	33200	1639	20.3	56500	34.5	29
19189	1.5	NO	230/460	230	3	60	464	33408	1649	20.3	56800	34.4	29
19190	1.5	NO	230/460	230	3	60	428	30562	1358	22.5	51900	38.2	26
19177	1.5	VFD	208-230/380-460	230	3	**50***	441	31571	1489	21.2	53600	36.0	28
19178	1.5	VFD	208-230/380-460	380	3	**50***	450	32328	1593	20.3	54900	34.6	29

* These motors are 50Hz only and are not to be used in a 60Hz application

ACME Sync Drive • Direct Drive Fans

Acme’s new line of brushless DC motors are the most efficient motors available for your Agricultural and Horticultural applications. The Acme Sync motors maintain 85% efficiency throughout speed ranges from 40%-100% while in a direct drive application.

ACME SYNC

Key Features: ACME Sync Drive

- MFS57DD fan uses the same military-grade polymer material as our belt drive versions therefore shares many of the same key features.
- The ACME Sync permanent magnet DC motor and drive combination are custom designed to supply the best efficiency within a variable RPM range of the fan.
- Single or three phase input voltage compatible on low voltage model (230V).

Key Features (cont.): ACME Sync Drive

- The direct drive option means no maintenance of belts, bearings, drives, or belt tensioners.
- Return on investment calculations well offset the additional cost of this upgrade.
- The modular design will also allow for a wall box and gravity intake shutter as an option.

ACME SYNC

Made in the U.S.A.

MFS57 Direct Drive Performance

BESS Test	Fan Mfg	Fan Model	Motor Make	Drive P/N	HP	V	Ph	Hz	RPM	CFM @0.10"	Power (W)	CFM/ Watt
230/1/60												
19205	Acme	MFS57DD	Acme Sync	668864	2.6	208-240	1	60	432	31400	1397	22.5
19206	Acme	MFS57DD	Acme Sync	668864	2.6	208-240	1	60	451	33200	1562	21.3
19207	Acme	MFS57DD	Acme Sync	668864	2.6	208-240	1	60	470	34700	1730	20.1
230/3/60												
19201	Acme	MFS57DD	Acme Sync	668864	2.6	208-240	3	60	301	18300	586	33.2
19200	Acme	MFS57DD	Acme Sync	668864	2.6	208-240	3	60	394	28100	1079	26.1
19196	Acme	MFS57DD	Acme Sync	668864	2.6	208-240	3	60	432	31300	1396	22.4
19195	Acme	MFS57DD	Acme Sync	668864	2.6	208-240	3	60	451	33500	1572	21.3
19197	Acme	MFS57DD	Acme Sync	668864	2.6	208-240	3	60	470	34600	1730	20.0
19199	Acme	MFS57DD	Acme Sync	668864	2.6	208-240	3	60	489	36100	1903	19.0
19198	Acme	MFS57DD	Acme Sync	668864	2.6	208-240	3	60	525	39000	2334	16.7
460/3/60												
19218	Acme	MFS57DD	Acme Sync	993930	2.6	380-482	3	60	300	18700	604	31.0
19217	Acme	MFS57DD	Acme Sync	993930	2.6	380-481	3	60	394	28000	1129	24.8
19214	Acme	MFS57DD	Acme Sync	993930	2.6	380-480	3	60	432	31500	1413	22.3
19215	Acme	MFS57DD	Acme Sync	993930	2.6	380-482	3	60	452	33100	1572	21.1
19216	Acme	MFS57DD	Acme Sync	993930	2.6	380-482	3	60	470	34700	1742	19.9
19219	Acme	MFS57DD	Acme Sync	993930	2.6	380-483	3	60	488	36100	1932	18.7
19220	Acme	MFS57DD	Acme Sync	993930	2.6	380-484	3	60	528	39100	2417	16.5
230/1/50												
19208	Acme	MFS57DD	Acme Sync	668864	2.6	220-230	1	50	432	31700	1384	22.9
19209	Acme	MFS57DD	Acme Sync	668864	2.6	220-230	1	50	451	33300	1544	21.5
19210	Acme	MFS57DD	Acme Sync	668864	2.6	220-230	1	50	470	34900	1725	20.2
230/3/50												
19202	Acme	MFS57DD	Acme Sync	668864	2.6	208-240	3	50	432	31700	1379	23.0
19203	Acme	MFS57DD	Acme Sync	668864	2.6	208-240	3	50	451	33000	1535	21.7
19204	Acme	MFS57DD	Acme Sync	668864	2.6	208-240	3	50	469	34800	1703	20.4
400/3/50												
19211	Acme	MFS57DD	Acme Sync	993930	2.6	380-485	3	50	431	31600	1429	22.1
19212	Acme	MFS57DD	Acme Sync	993930	2.6	380-486	3	50	452	33000	1570	21.0
19213	Acme	MFS57DD	Acme Sync	993930	2.6	380-487	3	50	469	34700	1735	20.0

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