

W51 Universal Replacement Motors



The PROTECH™ Universal Series of motors is a line of HVAC replacement motors for outdoor condensing units and indoor air handling units.

Designed for a wide variety of aftermarket HVAC replacement applications, the PROTECH Universal Series motors are manufactured under strict quality standards at one of the world's largest and most modern motor production facilities. Every motor undergoes a variety of stringent tests before it leaves the assembly line. Additional internal testing and review by our engineering team are conducted to ensure the PROTECH Universal Series of motors meet our standards.

The W51 Series of motors can be easily selected for any application using the W51 "smart part" numbering system. All you need to know is the application (such as fan or blower), the horsepower, the voltage, and the speed settings. Detailed specifications and drawings for each motor are also available on Rheemparts.com or Ruudparts.com.

FEATURES

Totally Enclosed Condenser Fan Motors

- Thru-bolt or belly band mounting
- Sleeve bearing
- Reversible
- 48 frame
- 1075 single speed
- ½" shaft diameter
- 6½" shaft length

Direct Drive Blower Motors

- Thru-bolt or belly band mounting
- Sleeve bearing
- Reversible
- 48 frame
- 1075/950/850 three speed
- ½" shaft diameter
- 4½" shaft length

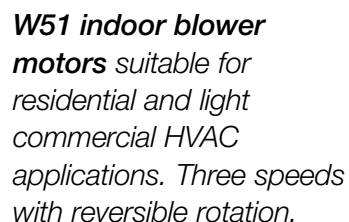


W51 outdoor condenser fan motors suitable for residential and light commercial HVAC applications. Single speed with reversible rotation.



CONDENSER FAN MOTOR SPECIFICATIONS

STYLE	W51-12CJA1-01	W51-13CJA1-01	W51-14CJA1-01	W51-16CJA1-01	W51-MHCJA1-01
Horsepower	½	⅓	¼	⅙	⅙–⅓
Input Voltage (v)	208-230	208-230	208-230	208-230	208-230
Speeds (rpm)	1075	1075	1075	1075	1075
Shaft Diameter	½ in.	½ in.	½ in.	½ in.	½ in.
Motor Body Diameter	5⅝ in.	5⅝ in.	5⅝ in.	5⅝ in.	5⅝ in.
Keyed Shaft Length	5½ in.	5½ in.	5½ in.	5½ in.	5½ in.
Overall Shaft Length	6½ in.	6½ in.	6½ in.	6½ in.	6⅞ in.
Motor Body Length	5½ in.	5⅝ in.	4⅞ in.	4⅞ in.	4⅞ in.
Overall Motor Length	12⅞ in.	11⅝ in.	10⅝ in.	10⅝ in.	10⅞ in.
Frame Size	NEMA 48	NEMA 48	NEMA 48	NEMA 48	NEMA 48
Overload Protection	thermal	thermal	thermal	thermal	thermal
Insulation System	Class B	Class B	Class B	Class B	Class B
Bearing Type	sleeve	sleeve	sleeve	sleeve	sleeve
Mounting Method	thru-bolt or band	thru-bolt or shell band	thru-bolt or shell band	thru-bolt or shell band	thru-bolt, shell band or shell-screw
Rotation Direction	reversible	reversible	reversible	reversible	reversible
Number of Phases	1	1	1	1	1
Frequency (Hz)	60	60	60	60	60
Full Load Amps (A)	3.25	2.5	1.8	1.2	1.92
Locked Rotor Amps (A)	6.52	5	3.5	2.1	3.58
Run Capacitor (µF/v)	10/370	7.5/370	5/370	5/370	7.5/370
Drive Type	direct drive	direct drive	direct drive	direct drive	direct drive
Warranty	1 year limited	1 year limited	1 year limited	1 year limited	1 year limited

[illegible]

CONDENSER FAN MOTORS CROSS REFERENCE

STYLE	W51-12CJA1-01	W51-13CJA1-01	W51-14CJA1-01	W51-16CJA1-01	W51-MHCJA1-01
Mars	03730	03729	03728	03727	03458/03468
Packard	63130	63129	63128		
Wagner	WG840730	WG840729	WG840728	WG840727	
Marathon	X221	X214	X213	X411	
AO Smith	FSE1056S	FSE1036S	FSE1026S	FSE1016s	ORM5458
Fasco	D907	D908	D909	D905	
Emerson	1862	1861	1860	1859	5458/5462
Smart	SE3730	SE3729	SE3728	SE3727	
GE				3727	

BLOWER MOTORS CROSS REFERENCE

STYLE	W51-34BAA3-01	W51-34BJA3-01	W51-12BAA3-01	W51-12BJA3-01	W51-13BAA3-01	W51-13BJA3-01	W51-14BAA3-01	W51-14BJA3-01
Mars	03589	03590	03587	03588	03585	03586	03583	3584
Packard		63990	63987	63988		63986	63983	63884
Wagner	WG840589	WG840590	WG840587	WG840588	WG840585	WG840586	WG840583	WG840584
Marathon	X009	X010	X004	X005	X002	X003		X001
AO Smith	DL1076	D1076	FDL1056	FD1056	FDL1036	FD1036	FDL1026	D1026
Fasco	D728	D729	D701	D703	D727	D923	D721	D725
Emerson	8904	8905	1865	1973	1864	1972	1863	1971
Smart	SE3589	SE3590	SE3587	SE3588	SE3585	SE3586	SE3583	SE3584

PRODUCT NUMBER CODE KEY

W	5	1	-	1	3	C	J	A	1	-	2	2

Wholesale motor

Horsepower

16=1/6

14=1/4

13=1/3

12=1/2

34=3/4

11=1

MH=multi-horsepower

Application

C=Condensor

B=Blower

Voltage

A=115

J=208/230

Nominal Speed

A=1075 RPM

J=825 RPM

Number of Speeds

1=one speed

2=two speeds

3=three speeds

Variation Code

see specification sheet
for details