

W50 250 HP 2P 5009/10 3Ph 2300/4160 V 60 Hz IC411 - TEFC - Foot-mounted

Catalog Number: **25036ET3X5009-W50MV** | Product: 13301256

Overview ▼

 GENERATE DOCUMENTS



Representative Image Only

WEG W50 motors offer not only excellent performance, but comply with the strictest efficiency and safety criteria in the most severe applications. The compact design provides high performance, while their robust frames ensure low vibration levels. The new mechanical concept not only optimizes characteristics like mass and length, but also offers product versatility and reduced maintenance.

Note: This item can be derated to 50HP less than the rated power. Please contact Inside Sales for more information.

Product features

Standard	NEMA MG-1
Frequency	60 Hz
Voltage	2300/4160 V
Number of poles	2
Degree of Protection	IP55
Synchronous speed	3600 rpm
Output rating	250 HP
Mounting	Foot-mounted
Flange	Without
Mounting	F-1
Terminal box ¹	Left position
Enclosure	IC411 - TEFC

USD42,512.00 /un. (Unit Price with Taxes)

PRODUCT DETAILS



Technical Data

2300 V 60 Hz 2P [4160 V 60 Hz 2P](#)

Electric Motors

Frame	5009/10
Output	250 HP (185 kW)
Number of Poles	2
Frequency	60 Hz
Rated speed	3576 rpm
Slip	0.67 %
Rated voltage	2300 V
Rated current	55.5 A
L. R. Amperes	355 A
LRC	6.4x(Code G)
No load current	12.0 A
Rated torque	367 ft.lb
Locked rotor torque	100 %
Breakdown torque	210 %
Locked rotor time	27s (cold) 15s (hot)
Moment of inertia (J)	75.9 sq.ft.lb
Design	A
Insulation Class	F
Service factor	1.00
Temperature rise	80 K
Duty Cycle	Cont.(S1)
Starting Method	Direct On Line
Ambient temperature	-20°C to +40°C
Altitude	1000 m.a.s.l.
Degree of Protection	IP55
Enclosure	IC411 - TEFC
Mounting	F-1
Rotation ¹	CW
Noise level ²	79.0 dB(A)
Approx. weight ³	3804 lb

(1) Looking the motor from the shaft end.; (2) Measured at 1m and with tolerance of +3dB(A).; (3) Approximate weight, subject to be changed after manufacturing process.; (4) At 100% of full load.



Efficiency

50%	75%	100%
93.6	94.1	95.0

Power factor

50%	75%	100%
0.83	0.87	0.88

Features

Frame Material	Cast Iron
Impregnation Method	Vacuum Pressure Impregnation (VPI)
Regreasing System	Extended in Stainless Steel, at Drive end and Non-drive end
Space Heater Voltage	110 - 127 V
Main terminal box hole	NPT 3"
Terminal Block	Without
Accessories Terminal Box	With
Shaft Locking Device	With
Drain	Stainless Steel, Threaded
Shaft Material	SAE 4140 Carbon Steel
Painting	RAL 5009 214P (ISO 12944 - C4)
Grounding Lugs	Double + Additional in Brass
Fan Cover material	Cast Iron
Tropicalized Painting	According to IEEE-841 (96h)
Foot flatness	(0.005 pol) 0.127 mm
Fan material	Cast Iron
Bolt Material	Carbon Steel
Winding thermal protection	PT100 - 3 wires 2 per phase
Bearing thermal protection	PT100 - 3 wires 1 on DE bearing PT100 - 3 wires 1 on NDE bearing
Balancing Method	1/2 Key
Drip Cover	Without
Connection Cables Quantity	6

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