

# Emerald eZA

Overview ⌵

 GENERATE DOCUMENTS



*Representative Image Only*

The Emerald ECM eZA (Electronically Commutated Motor) is a simple and efficient solution for air moving applications that require speed adjustment. The total system efficiency (motor + drive) meets the efficiency level determined by the European Standard IEC 60034-30-1.

## ABOUT THIS PRODUCT



# Emerald eZA - Electronically Commutated Motor



## Standard Features

- Permanent Magnet, Electronically Commutated Motor
- Single-phase, 50/60Hz input
  - 115/208 to 277VAC: 1/6 to 1/2 HP
  - 115/220 to 277VAC: 3/4 HP
  - 220 to 277VAC: 1 to 1.5 HP
- Output power: 1/6 to 1.5 HP at 1800rpm
- N48, steel frame, degree of protection IP54
- Mounting: rods
- Ambient temperature: -4°F to 104°F (-20 to 40°C) in TENV<sup>1</sup> or -4°F to 140°F (-20 to 60°C)(TEAO)<sup>2</sup>
- Total efficiency (motor + drive) – IE5<sup>3</sup>
- Vibration Grade A
- Direction of rotation CW/CCW (selectable)
- Continuous speed adjustment (200 to 1800 rpm) by:
  - Tact buttons (local)
  - DC voltage (remote): 2 to 10 VDC
  - DC current (remote): 4 to 20 mA DC
  - Frequency (remote): 10 to 95%
- Local controls optically isolated
- With drain plug and V'ring sealing
- Sealed for life bearings
- Power and control cables with 20"(0.5m) long
- Electronic protection: overload, over temperature and locked-rotor.
- Fire mode (Override & Maximum speed mode)

Notes:

1. *Totally Enclosed, Non-ventilated. Output limited to 0.85hp. Refer to WEG for electrical data.*
2. *Totally Enclosed, Air Over rated. Minimum airflow over motor frame and drive cover 16.4fps (5m/s).*
3. *Direct method - Input-Output IE levels according to 60034-30-1 and 60034-30-2.*

## Optional Features

- Decentralized drive and motor mounting
- Customized cable lengths
- Customized shaft ends
- Double shaft ends (only with decentralized drive version)
- External controller with display to adjust maximum and instantaneous speed values

Notes:

*Consult WEG about the optional features.*

6655 Sugarloaf Parkway

Duluth, GA 30097

Phone: 1-800-ASK-4WEG



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