WECM IEC

Overview

GENERATE DOCUMENTS

Representative Image Only

The WECM (WEG Electronically Commutated Motor) is a simple and efficient solution for air moving applications that require speed adjustment. The total system efficiency (motor + drive) meets high efficiency level.

ABOUT THIS PRODUCT

WECM - WEG Electronically Commutated Motor

Standard Features

- Permanent Magnet, Electronically Commutated Motor
- Single-phase, 220 to 277 VAC, 50/60 Hz input
  Output power:0,12 to 1,1 kW at 1500, 1800 or 3000 rpm
- Three-phase, 380 to 480 VAC, 50/60 Hz input
  Output power:0,12 to 4 kW at 1500, 1800 or 3000 rpm
- IEC80, aluminum frame, degree of protection IP55
- Ambient temperature: -20 to 40°C (TENV)[1]; or -20 to 60°C (TEAO)[2]
- Total efficiency (motor + drive) – IE6[3]
- Vibration Grade A
- Direction of rotation CW/CCW (selectable)
- Continuous speed adjustment (200 to 1500/1800 rpm and 500 to 3000 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
- Drive-end bearing cap
- Power and control cables 500 mm long
- Electronic protection: overload, over temperature and locked-rotor.
- Fire mode (Override & Maximum speed mode)

Notes:

1. Totally Enclosed, Non-ventilated. Output limited to 0,65 kW. Refer to WEG for electrical data.

2. Totally Enclosed, Air Over rated. Minimum airflow over motor frame and drive cover 5 m/s.

3. The WECM reaches the future IE6 level of efficiency, the highest in the market - considering 20% less losses then IE5 according to the standard IEC TS 60034-30-2 - for variable speed electric motor.

Optional Features

- Passive PFC (Power Factor Correction)[4] - Single-phase
- Pad mounting (4x90° or 3x120°) and FF-165 flange

- Slinger seal for vertical shaft-up mounting
- 115 V input power supply (up to 0,55 kW) - Single-phase
- Decentralized drive and motor mounting
- Customized shaft ends
- Double shaft ends (only with decentralized drive version)
- External controller with display to adjust maximum and instantaneous speed values

Notes:

4 - WECM require the use of an external filter (passive PFC) to comply with the harmonic current emissions requirements of EN 61000-3-2. Refer to WEG for further details.

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