Motor
Vector Duty

(Here’s your checklist)
Do You Need:
- Full Torque at zero rpm’s
- Frame size flexibility
- IP55 Motor Total Enclosed
- Precise speed control
- NEMA Premium efficiency
TENV Vector Duty line

This product line is designed specifically for Inverter Operation, allowing its use in applications where 1000:1 constant torque turndown ratio is required.

Standard Features
- NEMA Premium Efficiency
- Constant torque operation from 0 to base speed (1000:1) on PWM Vector Drive
- Constant Horsepower operation to 150% base speed at 40°C ambient
- C-face mount with feet
- Spike Resistant Wire
- Ready for Encoder or Brake mount*
- With Thermostats (1 per phase)
- Totally Enclosed Non-Ventilated
- V-Ring Seals
- Standard NEMA frame sizes
- Special nameplate data for easy drive setup
- IP55
- All Cast Iron Construction

Special Features
- Different mounting configurations
- Thermistors
- Space heater
- IP56, 65, 66 ratings
- Tropicalized Internal Painting
- Special shaft seals
- Encoder
- Brake w/torque up to 105lb ft.
- AEGIST M SGR Bearing protection ring (shaft grounding ring)
- Insulated Bearings

Applications
- Conveyors
- Crane and Hoists
- Extruders
- Metal Processing
- Any that would require constant torque over a wide speed range

* NEMA 4.5 (AK) flange in NDE with 5/8” shaft allowing encoder or brake assembly (Brake limited to 10lb. ft. torque)
**TENV Vector Duty Motor**

**EQUIVALENT CIRCUIT (IN Ω AT 20°C)**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>HP</th>
<th>RPM</th>
<th>VOLTS</th>
<th>FRAME</th>
<th>List Price</th>
<th>Enclosure</th>
<th>FL AMPS (460V)</th>
<th>APPROX. WEIGHT</th>
<th>Inertia</th>
<th>Max Safe RPM</th>
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**CFW-11 Vector Motor and Drives**

**Innovative and simple**

The CFW-11 presents many innovations that are helpful and beneficial to customers, mainly due to the simplicity of its installation and operation. The CFW-11 was developed based on Plug-and-Play philosophy (connect and use) allowing simple and fast installation of the VSD and its accessories. The Keypad has a navigation and programming system similar to mobile phones, with softkey buttons. It is possible to access the parameters sequentially or through groups of parameters. The Keypad also makes the Oriented Start-up function available, guiding the user through the necessary programming.

**Flexibility**

The CFW-11 adapts itself to the customer's needs through a broad range of accessories, which are easily installed. Besides this, the standard product comes with the SoftPLC function that attributes PLC functions to the VSD, which allows the customer to create his/her own applications (user programs) through the WLP software (programming in LADDER).

**Technology - Patents**

**Vectrue Technology®**

- Field oriented Vector Control: Sensorless and closed loop with encoder
- Sensorless vector control permits high torque and quick response in open loop, even at low speeds
- Close loop vector control allows zero speed and full torque even for continuous operation
- The self-tuning function automatically matches the WEG motor and the vector control modes.
TENV Vector Duty Accessories

**ENCODER**

<table>
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<tr>
<th>Catalog Number</th>
<th>Description</th>
<th>PPR</th>
<th>Magnetic or Optical</th>
<th>Input Voltage</th>
<th>Bore (in)</th>
<th>Connector</th>
<th>List Price</th>
<th>Mult. Sym.</th>
<th>Approx. Wt. (lbs)</th>
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<td>HSD38 Dynapar</td>
<td>1024</td>
<td>Optical</td>
<td>5-26V (7272)</td>
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* Provided with Encoder guard

**FEEDBACK CABLE ASSEMBLY WITH MS CONNECTOR**

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Dimensions

Please contact your authorized distributor: