

I N T R O D U C I N G

# Customized E220 Electromagnetic Clutches


**NEW**

Now available from Warner Electric  
E220 standard range clutches



## Product original features:

### Characteristics

- Electrically operated 24 or 103,5 VDC depending on size (voltage adaptable on request)
- Single friction face
- Activated by power on
- Expected ball bearing life of 50 000 hours
- Lubricated bearing assembly on VAR02

### Utilisation

- Coupling of two shafts in line
- Dedicated to embedded applications, especially hybrid transmissions
- Horizontal axis (if your application is vertical, contact our technical department)

### Particularities

- No backlash
- For dry use only
- No residual torque in disengaged position
- Fixed inductor mounted on ball bearings (other mounting assemblies available on request)



**An example of a custom-designed E220:**

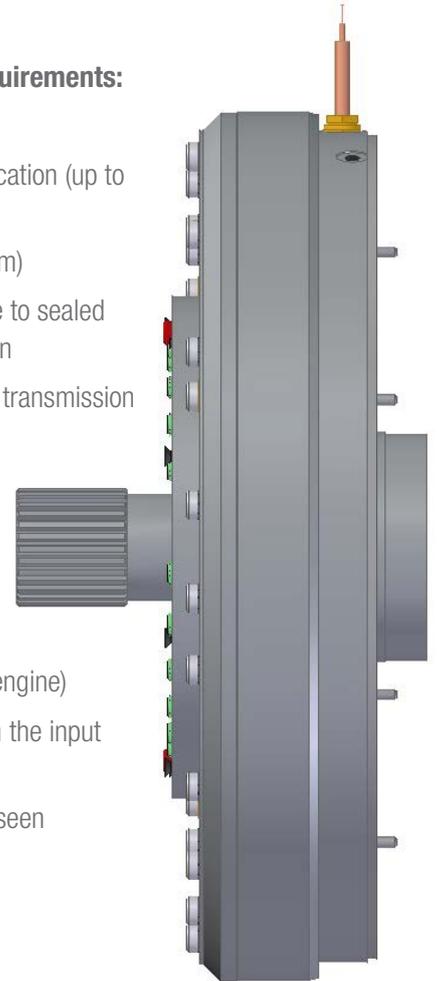
**Warner Electric has developed this clutch for hybrid transmissions and particularly for embedded environments, but it is suitable for a multitude of applications.**



**This product is particularly adapted for clutching a diesel engine on an electric drive system when the battery power is low.**

**We design this product with some requirements:**

- Power activated clutch
- Bearing mounted for high speed application (up to 3000 rpm)
- High torque application (up to 5000 Nm)
- High lifetime without maintenance due to sealed bearings and friction faces composition
- Compact design to be integrated on a transmission or a hybrid system
- A tolerance of +/-30% on the pilot voltage of the clutch (ideal for battery applications)
- An ambient temperature from -40°C up to 100°C (dedicated for clutches enclosed into a housing closed to an engine)
- Authorize a differential speed between the input and output shafts
- Stabilizing system to avoid any unforeseen clutching
- Dedicated for vibration systems
- Corrosion protection
- Sensor speed wheel in option



**For a custom solution for your application, please contact us at [esales.warnerfr@warnerelectric-eu.com](mailto:esales.warnerfr@warnerelectric-eu.com)**

**Please visit our webpage: [www.warnerelectric.com/products/clutch-products/shaft-mounted-clutches/e210-e220-series](http://www.warnerelectric.com/products/clutch-products/shaft-mounted-clutches/e210-e220-series)**