



CPLS motors for test stands

Technical expertise, low inertia and flexibility

CPLS motors have been specifically designed to offer an efficient variable speed induction motor solution for test stand applications. Combined with UNIDRIVE M or POWERDRIVE MD2, highest performance can be achieved.

CPLS motors can be equipped with high speed bearings and windings suitable for operation with our variable speed drives together with the usual accessories associated with Test Stand motors thus allowing their total integration into the application.



- Guaranteed performance for motor and drive package tested together as a solution
- Low inertia motor: fast response time for highly dynamic applications
- Wide range of winding options with a broad constant power region for maximum test stand flexibility
- Compact design: high power density
- Adapted solution design through our dedicated team



Rolling road and brake



Electric motor and internal combustion engines



Transmission/Gearbox and Powertrain



Testing equipment for e-mobility (hybrid/electric)



Generators on-board aircraft



Pump test stands

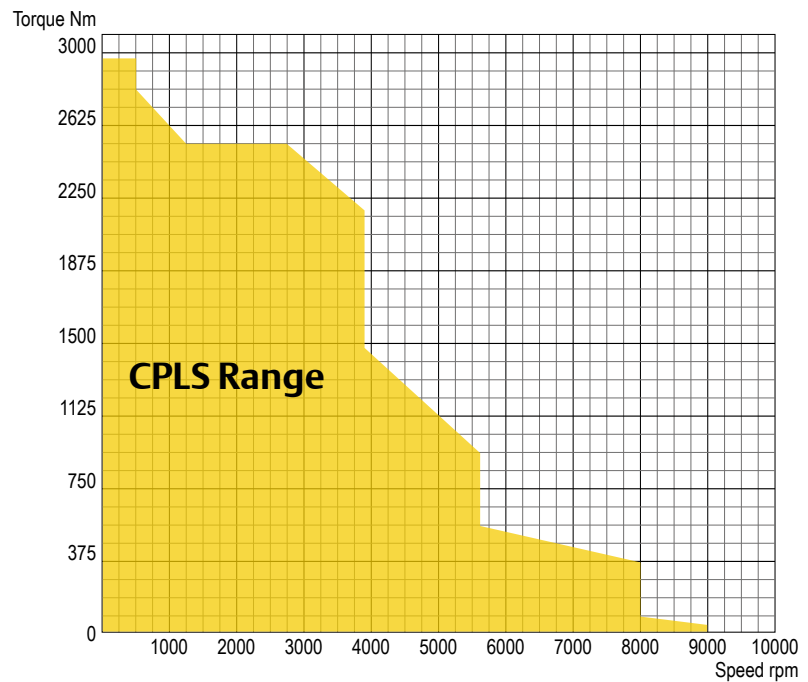


Component test stands

CPLS motors for test stands

Key features

- Power range: 7,5 to 560 kW
- Torque range: 95 Nm to 2,900 Nm
- Speed: up to 9000 rpm
- Degree of protection: IP23
- Shock resistance: IK08
- Cooling: IC06
- Radial forced ventilation
- Reinforced insulation winding
- Mechanically adapted to accept a wide range of encoders



| CPLS motor type | 112M | 112L | 132S | 132M | 132L | 160S | 160M | 160L | 200S | 200M | 200L | 250S | 250M | 250L |
|------------------------------|---------|----------|---------|---------|---------|---------|---------|---------|---------|----------|-----------|-----------|-----------|-----------|
| Nominal torque range (Nm) | 95 -115 | 110 -140 | 145-170 | 175-220 | 210-250 | 325-380 | 390-490 | 490-700 | 680-940 | 900-1300 | 1100-1550 | 1570-1950 | 1710-2360 | 2300-2900 |
| Inertia (kg.m ²) | 0.030 | 0.035 | 0.065 | 0.082 | 0.107 | 0.188 | 0.246 | 0.455 | 0.700 | 0.98 | 1.579 | 2.65 | 3.14 | 4.92 |

Flexibility add inertia data for each frame

Mechanical adaptation

- Large terminal box for easy cabling
- Large connection studs for: power and earth
- Easy integration of in-line torque transducer
- Shaft block system to test the torque meter
- Second / special shaft end (smooth)
- Insulated bearing (DE / NDE)
- Terminal box with 4 possible positions and compatible with high cable size (with or without shield)
- Paint system to fit any environment
- Large choice from incremental to absolute encoder and other resolution on demand
- Preparation for vibration monitoring
- Filter standard or Myovil (Washable filter)

Electrical adaptation

- Sensors winding: PT100– KTY– PTC
- Sensors DE & NDE bearings: PT100– KTY– PTC
- Special voltage for the forced ventilation fan
- Cable glands
- Forced ventilation driven by inverter
- **All options are available with an extra delivery time, consult us**

Documentation available:

- Drawing + curves from the configurator
- 3D files from the configurator

Documentation on request

- Nameplate data for motoring and regenerative operation
- E-plan drawings of the installed sensors
- Generating and motor rated and overload data
- Test report vibration by fixed run-out
- Admissible radial load versus speed data
- Equivalent circuit



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