ZOOM

SIGNAL & POWER TRANSFER SYSTEMS

USDK704 WITH TORQUE ARM FOR GE 2.X WITH FORJ WIND TURBINES 100A / 400V

USDK704 is a modern technology data and power slip ring system, using Mersen premium carbon brush grades and fiber optics to transmit all important signal, data and power channels

Mersen premium carbon grades are based on tribological experience with low wear rate, which translates to less dusting, reliable data transfer, power and extended life of the component.

Profinet 100BASE-FX full duplex transmission via contactless fiber optic rotary joint integrated to the slip ring. The FORJ is free of maintenance.

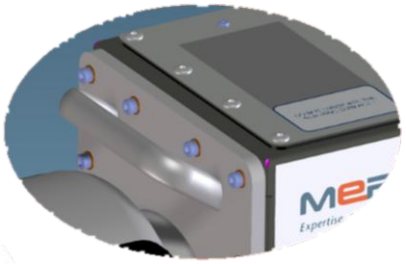
The design was optimized to withstand harsh operating conditions and a wide range of vibration frequencies:

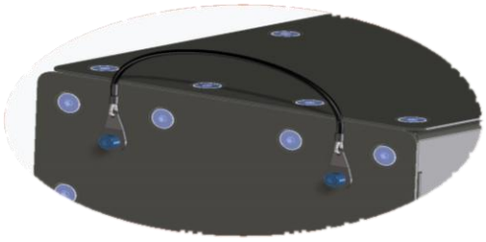
- Integrated connection cabinet allows easy access of internal connections and quicker maintenance
- Cleaning is a quick process with removable covers, as shown overleaf

FACTS & FIGURES

- Dimensions (L x W x H)
  740 x 255 x 265 mm
- Weight:
  28 kg
- IP protection class:
  IP 54 class 2
- Handling:
  2 handling bars
- Number of channels:
  15 ways + FORJ
- Max. Amp rate:
  100 A
- Max. Voltage:
  400 V
- Data / Signal / Power
  24 V / 6 A
  Multimode FORJ - ST
  Profinet 100BASE-FX
  Full duplex up to max. packet size
  230 V / 15 A
  400 V / 100 A

MERSEN PROPERTY



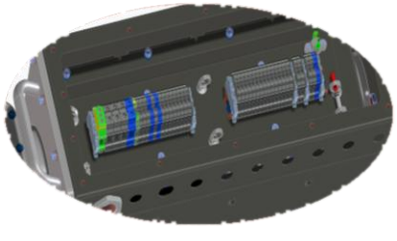


Handles at each end of the unit

FORJ: Fiber optic rotary joint for contactless high-speed data transmission

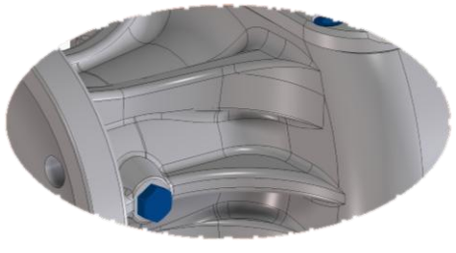
Flat adapter for easy access, easy cable clamping and a rubber seal

Captive quarter turn quick release screws



Power and data signal ports for stator side inside top cover

MERSEN brush grade featuring maximum life and reliability



Adapter neck with minimized stress using FEM design standards

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