

# SIGNAL & POWER TRANSFER SYSTEMS

USDK704  
FOR GE 2.X WIND TURBINES  
100A / 400V



**USDK704** is a modern technology signal, data and power slip ring system, using Mersen premium carbon brush grades and fiber optics to reliably 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 power transfer and extended life of the component.

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

- Integrated connection cabinet allows for easy access of internal connections and quicker maintenance
- A novel sealing design provides extra protection from environmental degradation. Designed according to international ISO, UL and CSA standards.
- Cleaning is a quick process with removable covers and captive quick release quarter turn studs as shown on overleaf.

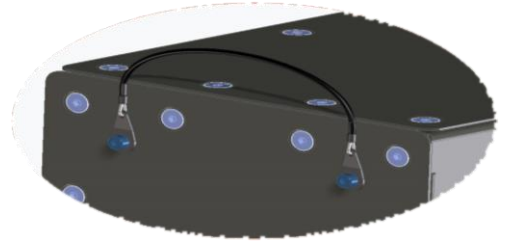
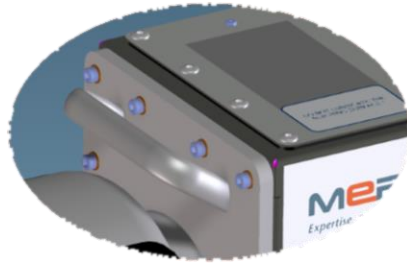
## FACTS & FIGURES

- Dimensions (L x W x H)  
737 x 214 x 250 mm
- Weight:  
28 kg
- IP54 housing
- Handling: 2 handle bars
- Number of channels:  
15 ways + FORJ
- Max. Amp rate:  
100 A
- Max. Voltage:  
400 V
- Data / Signal:  
24 V / 6 A  
Multimode FORJ  
Profinet 100BASE-FX  
Full duplex up to max.  
packet size

MERSEN PROPERTY



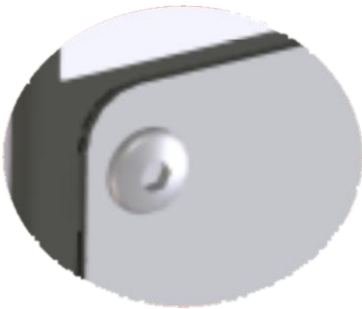
FORJ: Fiber optic rotary joint for contactless high-speed data transmission



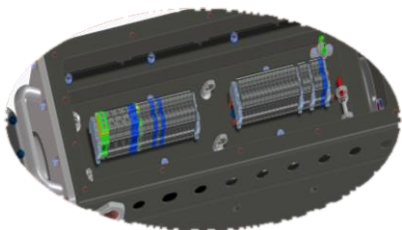
Handles at each end of the unit



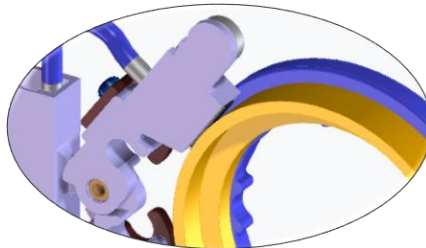
Flat adapter for easy access, easy cable clamping and a rubber seal



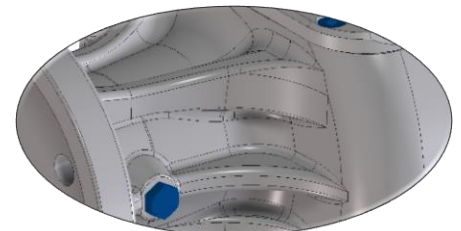
Captive quarter turn quick release screws



Power and data signal ports for stator side inside top cover



MERSEN brush grade featuring maximum of life and reliability



Adapter neck with minimized stress using FEM design standards



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