

iMCC – MOTOR OPERATING MECHANISM
EHT Solution for Disconnect Switches



New Innovative Control & Monitoring Device for
Smart Grid Integration and Operation Optimization

NEW INNOVATIVE CONTROL & MONITORING DEVICE FOR Smart Grid Integration and Operation Optimization

iMCC is an intelligent and robust motor operating mechanism for controlling and monitoring disconnect switches. It offers variable speed control, monitoring, SCADA signaling, optional IEC 61850/DNP 3.0 communication protocols, optical positioning and more.

iMCC provides all the mechanical features of a conventional motor operator that is maintenance free and integrated with a high tech monitoring and control module called iCOD. iMCC is compatible with most single-turn disconnect switches manufactured requiring a rotation of 45 to 220 degrees. It can be used for multiple-turn disconnect switches as well. Using high precision gears, robust gearbox and an overrated motor, it is designed to operate for the life of the disconnect switch.

Take Advantage of Our Innovation

Efficient • Robust • Reliable



Monitoring

- Integrated monitoring system - no RTU
- Voltage, current, torque and position all date stamped
- Temperature and humidity inside housing
- System component's status
- Further monitoring through real-time analysis

Real-Time Analysis

- Detection of mechanical blockages & breakages
- Detection of major misalignments
- Detection of incorrect positioning in contact fingers
- Up to 400 operations recorded for in-depth analysis

Variable Speed Control

- Smooth mechanical acceleration/deceleration
- Decreased mechanical stress on components
- Arcing time decreased significantly
- Reduced harsh harmonics injected into the grid
- Improved lifespan of adjacent equipment such as power transformers
- Reduced arc exposure to main contact

Optical Positioning System & Dynamic Break

- Precise and absolute positioning
- Optimal contact pressure
- No post-adjustment required following the initial configuration

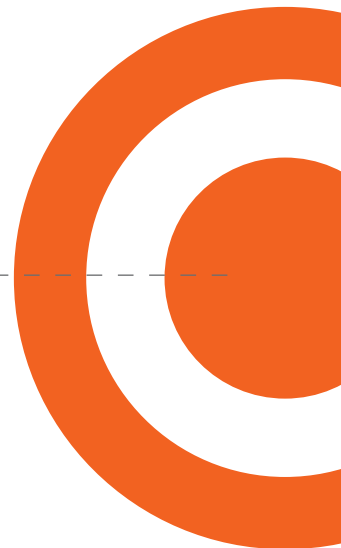
Notification/Communication

- Optional IEC 61850 and DNP 3.0 communication module
- Plug and play auxiliary signal module (ASM) expandable up to 30 signals
- 20 alarm codes available locally
- 2 alarm signals; critical and non critical
- 2 positioning signals; opened and closed
- 3 mode status signals; local/remote and manual

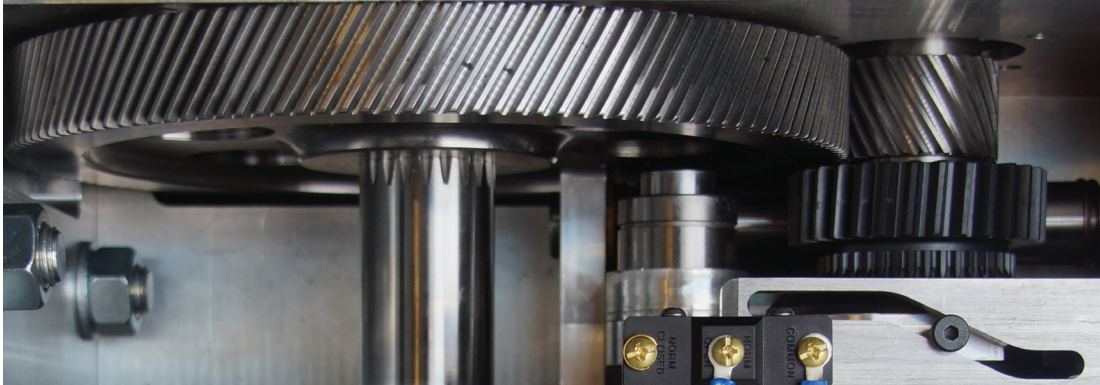
Mechanically Conforms

- IP56 housing
- Various operating modes:
 - (1) Local: manually operated
 - (2) Local: motor operated
 - (3) Remote: motor operated
 - (4) Lock: mechanically and electrically decoupled
- Available in aluminum and stainless steel
- Ratios: 45 to 220 degrees and multiple-turn
- Innovative and secure crank system for manual operation and mode selection

**Target
the
Best
Technology**



iMCC – DESIGNED TO BE VIRTUALLY **Maintenance Free**

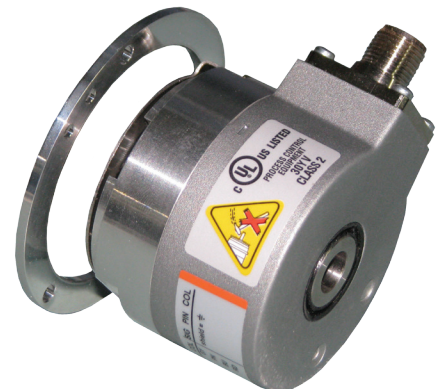


iMCC is the result of five years of research and development. It is designed to provide utilities and heavy industrials a level of security and efficiency not previously available. Furthermore, iMCC is designed to be virtually maintenance free.

- Robust stainless steel or aluminum housings and components
- Conventional push buttons replaced by membrane switch
- Cam switches replaced by optical positioning system
- Power relays replaced by solid state motor drive
- Maintenance free gearbox (no lubrication)
- Overcurrent detected and limited
- Contact oxidation eliminated
- IP56 housing

For more information visit our website or call, and our friendly staff will be happy to organize a meeting with your local EHT representative.

EHT International is represented by a network of agents, distributors and manufacturer's representatives worldwide.



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