



Grid Solutions
a GE and Alstom joint venture

DISCONNECTOR PRODUCT SOLUTIONS

CMM and CML

Motor and manual disconnector
operating mechanisms

The primary function of a motor operating mechanism is to provide reliable remote operation of disconnectors by means of a torsional pipe.



CMM Motor Operating Mechanism

CUSTOMER BENEFITS

- Maintenance-free
- Tested at up to 20,000 operations
- Easy retrofitting of motor operation
- Stainless steel enclosure
- Irreversible reduction gear
- Removable side panel for easy wiring access
- AC or DC motors available

TYPE

	Disconnect or earthing switch
CMM	Motor
CML	Manual lever
CMH	Crank

MAINTENANCE FREE

Grid Solutions uses only the highest quality corrosion-resistant materials available. The housing has a standard tightness rating of IP54 and is made of stainless steel, the only real solution to ensuring mechanical strength and corrosion resistance.

Our gear are lubricated for life and therefore do not require any maintenance or greasing. The main worm-gear assembly, which provides operating torque and supports the weight of the mechanism, is bolted to the supporting structure allowing the housing to serve only as a weatherproof covering. Air vents, an internal heater to prevent condensation and ensure trouble-free operation to low voltage relays and switches are supplied as standard equipment.

EASY TO INSTALL

The removable side panel ensures easy and quick on-site wiring. All mechanisms are factory-wired to the terminal blocks.

SAFETY

A manual operating handle is stored just inside the operating mechanism. Each motor mechanism may be manually operated by inserting the handle through the access hole for emergency operations. Manual operation turns the same gearing as motor operation.

The signalisation device is housed inside the mechanism to ensure direct and reliable correspondence between the signalisation of the mechanism and the disconnector position. Commutator switches and cam+ microswitch signalisation devices are both available.

The operating force (manual or motor) is transmitted by an irreversible reduction gear, which prevents the disconnector from changing position due to environmental (wind, seismic ...) or electrodynamic stress. It also eliminates the unwanted feedback which would be transmitted to the manual handle. The motor drive electromechanical lock requires energising to permit the insertion of the crank into the working position and will interlock the manual operation with other devices when required (i.e. with circuit breaker) and override the motor operation when the crank is inserted. The manual drive electromechanical padlock also requires energising for operation. The motor is always fed through an MCB.

