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Alternative Terminations on NOJA Power OSM Reclosers

Marketing contact:
[Martin Van Der Linde](mailto:Martin.VanDerLinde@nojapower.com.au)

Tel : +61 7 3907 8777
Fax : +61 7 3399 6777
martinv@nojapower.com.au
www.nojapower.com.au

While NOJA Power's OSM Recloser system is becoming a common sight on overhead distribution networks around the world, the little-known story is the level of versatility available when it comes to terminating cables onto the device. Standard connections such as the Tunnel or NEMA Palm terminations are the most prevalent connection options, but the many unique applications which NOJA Power OSM Reclosers are deployed in call for new levels of adaptability in switchgear connection. The benefit of these levels of flexibility are realised through the wide variety of applications which can be resolved by the OSM Recloser System.



*OSM Recloser with Tunnel Connections under
routine test at the NOJA Power Factory*

For the ubiquitous underground to overhead connections, the NOJA Power OSM Recloser has a simple answer for the conversion mode. At 33kV, a conversion plug can be used to allow for safe transition between distribution media whilst capitalising on the integrated sensors, circuit breaker and control system present in the OSM Recloser System.



NOJA Power 38kV OSM Recloser with Overhead and Underground Cable Terminations

The 15kV and 27kV variants of the OSM Recloser even have a DIN profile bushing under the outdoor bushing boot, which allows for direct connection of dead break elbow style connectors. All NOJA Power OSM Reclosers are configurable with regards to source/load sides of the equipment, with load and source side voltage sensing included as standard integral to the breaker, further enhancing the flexibility as the transmutation from overhead to underground can be done on either end of the breaker interchangeably.



OSM Recloser with DIN Profile Dead Break Elbow Connections in a Kiosk Installation



OSM Recloser in an underground cable protection Kiosk in Sweden

Conversion may be a common installation application, but it certainly isn't the only application which calls for less conventional connection policy. The NOJA Power OSM Recloser has found a home in many distribution kiosks, where the DIN profile connection points are deployed to allow for simple underground cable termination within small clearance enclosures. The NOJA Power Compact Ground Mount Kiosk Recloser is an example of a modification of the traditional switching module to a level arrangement, enabled by the insulated cable connection.



NOJA Power 27kV Compact Ground Mount Kiosk (GMK) Recloser

The Compact Ground Mount Recloser system offers the same functionality as the pole mount OSM Reclosers, but packaged in a small footprint installation for underground cable connection. The Compact GMK has been deployed for protection of underground cable networks, but also as a connection point for solar generation where the shade cast by conventional pole top equipment would compromise installation performance. With the wide variety of connection options, the NOJA Power OSM Recloser has been designed for significant versatility in solving distribution network challenges.



OSM Reclosers with Palm Connectors rolling off the production line

“Our OSM range of recloser products offer a range of flexible termination options,” says NOJA Power Group Managing Director Neil O’Sullivan. “Whether this is a simple overhead application, an overhead to underground interface or a complete underground application there is a termination solution available.”

By Martin van der Linde – Marketing Manager NOJA Power