

IRRD[®]

Intelligent Remote Racking Device



Arc flash is a type of electrical explosion or discharge that results from a connection through air to ground or another voltage phase in an electrical system. Current research shows that up to 80% of reported electrical injuries are caused by an electrical arc. This fact has generated safety requirements and industrial standards for switchgear defined by Safety standard NEC, NFPA70E, OSHA etc. recommends VCB racking with PPE or perform this operation outside the Arc Flash protection boundary.

The IRRD[®] is a system that allows an operator racking in and out a withdrawable circuit breaker from a remote location. It offers a safe alternative to manually racking circuit breakers, which reduces the requirement for service personnel to wear a full-body arc flash hazard suit for protection.



Mechanical Specifications	
Length	380mm
Width	260mm
Height	900mm

Electrical Specifications	
Power Supply Voltage	230VAC
Max. Current	6Amps
Frequency	50Hz



Features

- › Accurate control on distance travelled through PLC and Encoder logic reduces the stress on the contacts hence enhances the contact life.
- › Seamless and precise speed control through servo Drive ensures accurate Contact closing (Moving and fix contact) and immediate visual check on HMI display screen.
- › IRRD® is provided with inbuilt memory device which store the operational data of every operation. This torque data analysis helps maintenance team to make decision on necessity of servicing of breaker mechanism or Shutter assembly.
- › Uniform continuous racking operation ensures minimum chattering period.
- › Breaker racking with pre-defined torque limits avoids overstress on the racking component.
- › As the operation is being done remotely, It helps to meet electrical safety audit requirement as per NFPA and NEC safety standards
- › Single trolley is suitable for one complete substation for all range of VCBs.
- › IRRD® is also suitable for other make withdrawable breakers.

Personnel Safety... IRRD® places operator outside the arc-flash protection boundary



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