

Metal Clad VCBs ~ Mk2

DIYA Series – Cassette type VCB Panels

Range: Upto 36kV, 31.5kA, 2500A



Optimum solution for urban networks



Megawin make cassette type metal clad VCBs



“Many applications...one solution”

Ideal for Distribution networks, Motor feeders, Transformer protection, Capacitor switching

DIYA Series of breakers are available in designs suitable for either indoor or outdoor application:

Conforms to **IEC-62271-100/200/1**
Fully type tested as per latest IEC

Features

- Cassette type Breaker Panels, complete with CTs, PTs, Relays, Meters, Control & Indication devices fully wired up and ready to use
- Light weight Vacuum Breaker trolleys are designed for easy handling (during maintenance) on user friendly and safely designed breaker handling trolleys
- Available in two operating mechanism options: Motorized spring charged mechanism (or) Magnetic Actuator mechanism. The later, guarantees more than 100,000 Mechanical operations
- This design provides total safety to operating personnel as all operations, including rack-in and rack-out of VCB Trolley are possible with front doors in closed and securely held condition
- All mandatory safety interlocks and padlocks are provided
- Fixed HT side isolating contacts are embedded in seal off epoxy bushings (Spouts) thus providing totally earthed metallic segregation between high voltage compartments within the switchgear panel.
- Four distinct high voltage compartments fully Type Tested for internal arc conditions ensure utmost safety to operators.
- Front draw out VTs provided for VT fuse replacement without switching off incomer
- SCADA Compatible design – suitable on either IEC or MODIBUS protocol



Totally compartmentalized design with four distinct high voltage compartments and one low voltage compartment

Breaker Compartment

Bus bar side and Cable side HT Spouts are covered by automatic metallic pad-lockable shutters when Breaker is drawn out.



Bus-bar Compartment

Bus-bar Compartment with robust bus-bar support system and adequate air clearances between exposed live parts and steel enclosure parts are an engineering marvel.



CT-cum- Cable Compartment

Spacious CT cum cable compartment with the benefit of terminating up to 3 runs x 300sqmm XLPE power cables. Provision exists for mounting high accuracy low power CT suitable for operation with numerical relay and multifunction meter for improved protection and high accuracy energy management. Provision exists for mounting ring / window type CT's, wound primary CT's for lower ratio. Current sensor operated VCB protection also offered in lieu of CTs / lower power CTs.



PT compartment

Front, bottom located Draw-out voltage transformer compartment (below breaker compartment) is ideally located to facilitate VT fuse replacement with main line in ON condition (i.e., without switching off incoming breaker). Unique draw out PT assembly provided, which draws out the PT Assembly, automatically while the PT Compartment door is being opened.

Technical Data – Metal Clad VCBs – DIYA Series

Rated System Voltage	kV	12	36
Rated Incoming / outgoing current	Amps	1250, 1600	2500
Rated busbar continuous current	Amps	1600, 2000	2500
Rated Short circuit breaking current	kA(rms)	25	31.5 / 25
Short circuit duration	Seconds	3	3
Rated making current	kA(peak)	62.5	78.75 / 62.5
Rated cable charging current	Amps	25	25
Rated capacitor breaking current	Amps	400	400
Rated insulation level (B.I.L.)	kV	12 / 35 / 95	36 / 70 / 170
Width X Depth X Height	mm	650*x1400x2100	1200x2825x2500
Weight of completed Breaker Panel	Kgs.	800	1350
Degree of ingress Protection	IP Class	Indoor IP4X / Outdoor IP 55	

*650mm width up to 1600A bus-bar rating and 800mm width for 2000A rating



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4

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