

# PANICKKER SWITCHGEAR



## Load Break Switch & VCB - RMUs

Sheet Steel covered high voltage switchgear for Indoor and Outdoor applications for nominal voltages 12, 24, 36 kV

### FULLY TESTED AT CPRI & KEMA FOR 650 MVA AT 12KV - E3 DUTY

#### TESTED BY

1. KEMA OF HOLLAND FOR FAULT MAKE AT 80kA PEAK
2. KEMA OF HOLLAND & CPRI FOR LOAD BREAK AT 630A FULL LOAD AT 0.1PF
3. CPRI FOR SHORT TIME CURRENT RATING OF 40kA FOR 3 SEC (69kA FOR 1 SEC)



RING MAIN UNIT WITH VCB  
AS T off AND TWO AIR INSULATED LOAD BREAK SWITCHES AS  
INCOMERS.

AIR BREAK RMU is unique equipped with E3 category LBS. They can be used for either Indoor or Outdoor applications. Unauthorised operations are prevented by effective interlocking.

THE RING MAIN UNIT is Motor Operated and Remote Controlled Mechanism can be supplied. It is ideal for SCADA operation.

**ROMAC RMU** has specially reduced dimensions, self protected VCB with CT, PT, Relay, Metering- Ready for installation.

The design corresponds to the latest specification IEC - 60265.

The RMU unit is extensible.

Relays and Meters are provided with the communication port.

The construction is based on the latest development of insulation for switches and switchgear. Short circuit indicators and Capacitor voltage indicators can be supplied on request.



RING MAIN UNIT WITH SWITCHFUSE AS T off AND TWO AIR  
INSULATED LOAD BREAK SWITCHES AS INCOMERS.

# PANICKKER SWITCHGEAR

#### ADDRESS:-

NH4, THANDALAM POST,  
SRIPERUMBUDUR - 602105,  
TAMIL NADU.

Email: [sales@panickker.com](mailto:sales@panickker.com)

URL: <https://www.panickker.com>

## SECTION 1 - LBS

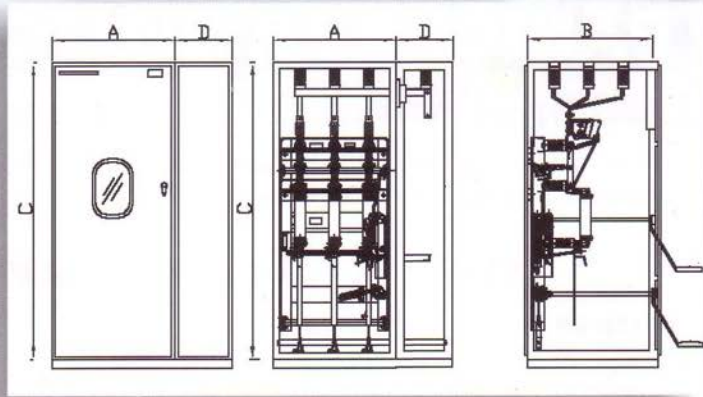
### Rated Voltage 12kV or 24kV or 36kV

Transformer-Switch Section with fused on-load isolator equipped with spring assisted mechanism (F) and tripping device (SEA).

Type ZLDT-1 12/630 F                      Type ZLDT-1 12/630 SEA  
 Type ZLDT-1 24/630 F                      Type ZLDT-1 24/630 SEA  
 Type ZLDT-1 36/630 F                      Type ZLDT-1 36/630 SEA

(or)

Earthing Switch with making capacity and Shunt Trip Coil can be provided on request.



DIMENSIONAL DETAILS			
Description	12 kV	24kV	36kV
Weight (kg)	500	700	900
Dimension A (mm)	750	1000	1250
Dimension B (mm)	800	1000	1000
Dimension C (mm)	1800	2200	2200
Dimension D (mm)	350	500	750

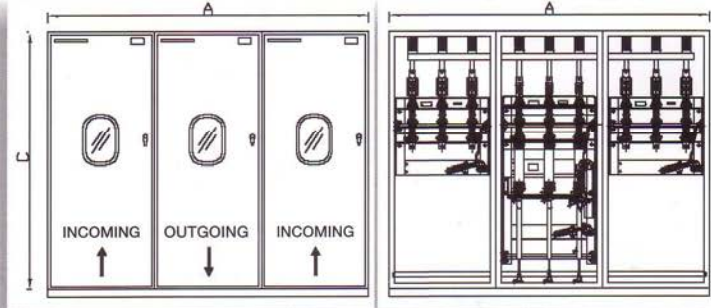
## SECTION 2 - LBS RMU

### Rated Voltage 12kV or 24kV or 36kV

Ring Main Unit with two air-insulated load break switches as Incomers and one load break switches with fuses as Outgoing.

Type ZLDT-1 12/630 F & SEA  
 Type ZLDT-1 24/630 F & SEA  
 Type ZLDT-1 36/630 F & SEA

Earthing Switch with making capacity and Shunt Trip Coil can be provided on request.



DIMENSIONAL DETAILS			
Description	12 kV	24kV	36kV
Weight (kg)	1500	2100	2700
Dimension A (mm)	2250	3000	3750
Dimension B (mm)	800	1000	1000
Dimension C (mm)	1800	2200	2200

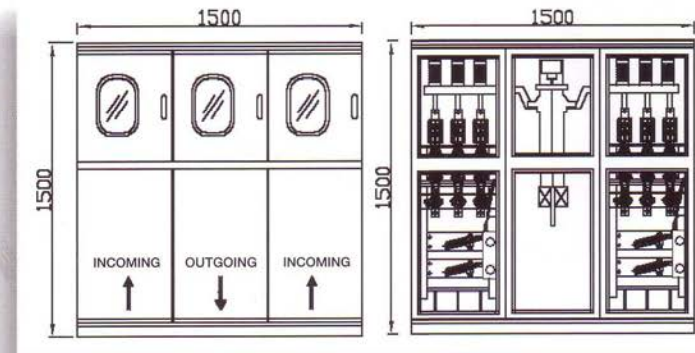
## SECTION 3 - LBS WITH VCB -RMU

### Rated Voltage 12kV

Motor Operated and Remote Controlled Ring Main Unit with two air insulated load break switches as Incomers and VCB as feeder. Vacuum LBS can be supplied in place of Air LBS on request.

Type ROMAC 12/630

Earthing Switch with making capacity can be provided on request.



## TECHNICAL DATA

		ZLDT-1 12/630	ZLDT-1 24/630	ZLDT-1 36/630	ROMAC 12/630	
Rated voltage	$U_n$	12kV	24kV	36kV	12kV	
Rated current	$I_n$	630 A	630 A	630 A	630 A	
Rated peak current	$I_{dyn}$	100 kA <sub>s</sub>	67.5 kA <sub>s</sub>	67.5 kA <sub>s</sub>	63 kA <sub>s</sub>	
Rated short-time current	$I_{th}$	40kA	27 kA	27 kA	25 kA	
Rated short-circuit making capacity	$I_{ma}$	100 kA <sub>s</sub>	67.5 kA <sub>s</sub>	67.5 kA <sub>s</sub>	63 kA <sub>s</sub>	
Rated current of the bus bar	$I$	630 A	630 A	630 A	630 A	
Basic insulation level		75 kV	125 kV	170 kV	75 kV	
Breaking currents (To VDE 0670/part 3 and IEC 265)						
Rated mainly active load breaking capacity	( $\cos\theta=0.7$ )	$I_1$	630 A	630 A	630 A	630 A
Rated closed loop breaking capacity	( $\cos\theta\leq 0.3$ )	$I_2$	630 A	630 A	630 A	-
Rated transformer off-load breaking capacity	( $\cos\theta\leq 0.15$ )	$I_3$	120 A	80 A	40 A	-
Rated single capacitor bank breaking line-charging	( $\cos\theta\leq 0.15\text{cap}$ )	$I_4$	90 A	50 A	20 A	400 A
Rated line-charging breaking capacity	( $\cos\theta=0.7$ )	$I_5$	90 A	50 A	20 A	-
Rated cable charging breaking capacity	( $\cos\theta<0.1\text{cap}$ )	$I_6$	90 A	50 A	20 A	-
Rated short circuit breaking capacity		$I_7$	-	-	-	25kA

As continuous developments are made to all Panickker products, equipment supplied may differ in detail from that described above.