

PANICKKER SWITCHGEAR

70

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 LIMITED

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SECTION 1 - LBS

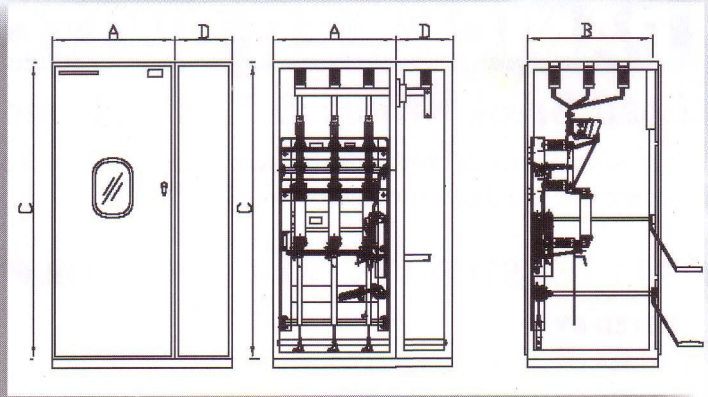
Rated Voltage 12kV or 24kV or 36kV

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

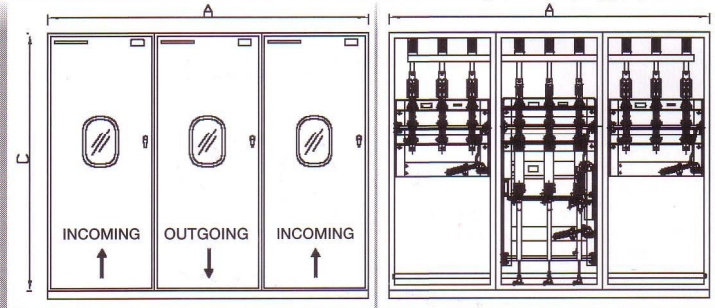
SECTION 2 - LBS RMU

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

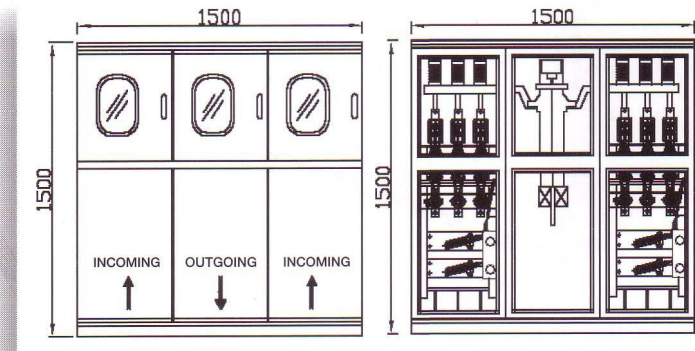
SECTION 3 - LBS WITH VCB -RMU

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 _s	67.5 kA _s	67.5 kA _s	63 kA _s	
Rated short-time current	I_{th}	40kA	27 kA	27 kA	25 kA	
Rated short-circuit making capacity	I_{ma}	100 kA _s	67.5 kA _s	67.5 kA _s	63 kA _s	
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.