



# Cassette **VCB**



**Cassette VCB - With Door**



**Cassette VCB - Without Door**

#### Cassette Breaker Characteristics

Model No.		VK 10
Variant	A	800 / 1250
Rated Voltage	kV	12
Rated Current	A	800 / 1250
Rated Frequency	Hz	50 / 60
Rated Short Time Withstand Current	kA / 3 sec	26.3 / 40
Rated Short Circuit making current	kAp	65.75 / 100
Rated Short Circuit Breaking Current	kA	26.3 / 40
Rated Impulse Withstand Voltage	kVp	75*
Rated 1 min Power Frequency Withstand Voltage	kV	28**
Rated Operating Sequence		O-0.3 sec-CO-3 min-CO
Break Time	No. of Cycles	<3 Cycles
Closing Voltage	V	24 / 30 / 110 / 220 V DC
Tripping Voltage#	V	24 / 30 / 110 / 220 V DC
Spring Charging Motor Voltage	V	230 V AC / 110 V AC / 110 V DC / 220 V DC
Auxiliary Contacts	Nos.	6NO + 6NC
Full Load Switching Life (No. of operations)	No. of operations	>10000

\* Rated Impulse Withstand Voltage - 95kVp available

\*\* Rated 1 min Power Frequency Withstand Voltage - 38kV available.

# Dual trip coil available

Type	With Door	Without Door
Width (mm)	600	595
Depth including handles and PDS projection (mm)	1040	994
Depth excluding handles and PDS projection (mm)	800	778
Height (mm)	910	908
Weight of Cassette VCB in Kg.	250	205



## General

- Complies with IEC 62271-100
- Compact and robust metal clad switchgear
- Suitable for adverse environmental condition
- Comes with inbuilt Anti-pumping feature
- Horizontal Isolation, horizontal draw-out VCB with Interchangeability for same feeder rating
- Superior powder coated finish with advance pre-treatment.



## Customer Benefits

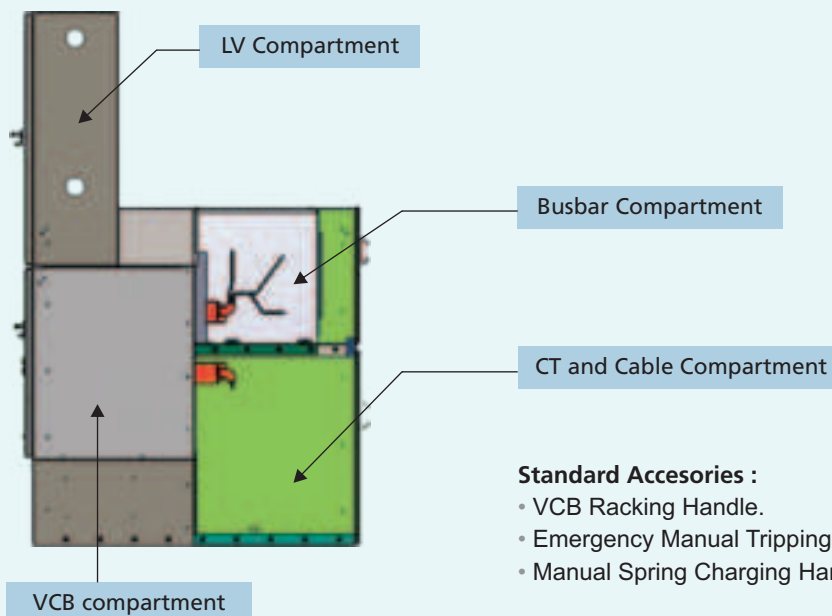
- Minimum maintenance - Superior performance
- Light weight & hence easy to maneuver
- Easy installation
- Provision of Manual and Electrical Spring charging in VCB
- PT Trolley can be provided below VCB for draw-out PT arrangement.
- Suitable for adverse environmental condition.



## Design For Safety

- True close door operation as per IEC standard
- Pad lockable door to ensure operator safety
- Safety interlocks
- The Racking-in & Racking-out of circuit breaker is not possible unless it is OFF.
- Circuit breaker can be closed only when it is in the service or test position.
- The operation of Circuit breaker is not possible while it is in the intermediate position.
- Circuit breaker cannot be racked-in unless the control plug is inserted.
- It shall not be possible to remove the control plug while the Circuit breaker is in service or intermediate position.
- It shall be possible to remove the control plug if Circuit breaker is in disconnected position, irrespective of Circuit breaker status.
- Circuit breaker can be fully withdrawn out of its compartment only when the control plug is removed.
- It is not possible for Circuit breaker to operate unless spring is fully charged.
- It shall not be possible to open the door while circuit breaker is in service position.
- Door can be opened only if Circuit breaker is in Test position.
- Bypassing arrangement is provided to unlock the door in case of emergency.
- VCB of same rating can be interchanged

### A Typical view of Panel with Cassette VCB



## Sample GA

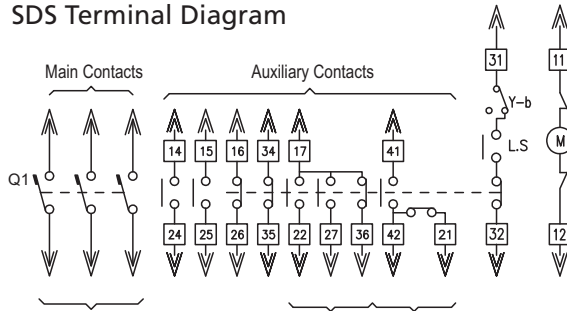
### Cassette Details

SYSTEM DETAILS	11kV, 3PH, 3W, 50Hz, 26.3kA/3 Sec
VCB RATING	800/1250 A
DEGREE OF PROTECTION	IP4X
TOTAL LENGTH	600
PAINT SHADE	EXT. RAL 7032 (PEBBLE GREY) WITH GLOSSY FINISH INT. RAL 7032 (PEBBLE GREY) WITH GLOSSY FINISH
RECOMMENDED FRONT ACCESS	2000
RECOMMENDED REAR ACCESS	1000
DEGREE OF PROTECTION	550
RECOMMENDED TOP ACCESS	660

### General Details

- 1) INSULATION LEVEL : 12kV/28kV RMS (1MIN.)/75KV
- 2) SP. CH. MOTOR SUPPLY : 230V AC
- 3) CLOSING COIL SUPPLY : 24V DC
- 4) TRIP COIL SUPPLY : 24V DC
- 5) BOARD LABEL IS OF BLACK LETTERS - WHITE TRAFOLITE
- 6) BREAKER SDS PIN DESCRIPTION IS AS FOLLOWS:

### SDS Terminal Diagram

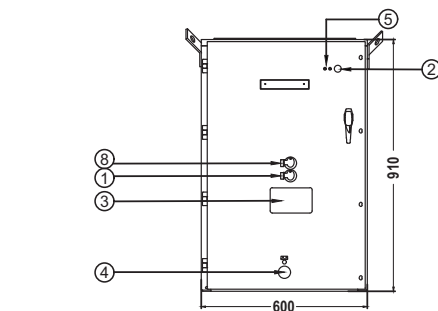


VCB SDS PIN NUMBER	TERMINALS ARE NOT IN L&T SCOPE OF SUPPLY
31	1 CLOSING COIL
32	2 TRIP COIL-1
41	3 VCB SP CHARGED
42	4 VCB LIMIT SWITCH
21	5 VCB ON
11	6 VCB OFF
12	7 VCB OFF
17	8 VCB OFF
22	9 SPARE
27	10 CC SUPERVISION/SPARE
36	11 SPARE
14	12 SPARE
24	13 SPARE
15	14 SPARE
25	15 SPARE
16	16 SPARE
26	17 SPARE
34	18 SPARE
35	19 SPARE
13	20 SPARE
23	21 SPARE
20	22 SPARE
28	23 SPARE
19	24 SPARE
1	25 SPARE
2	26 SPARE
3	27 SPARE
18	28 SPARE
19	29 SPARE
43	30 ET I/L / SPARE
44	31 SDS EARTHING
45	

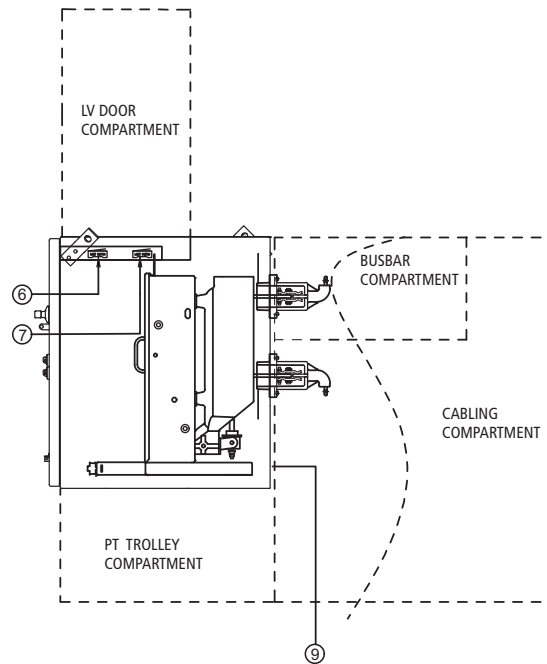
SDS TERMINALS ON VCB FACIA / VCB END

FERRULE NUMBER AT REMOTE/ NON VCB END

### Cassette with Door



9	EARTH BAR CONNECTION LOCATION
8	MANUAL TRIPPING HOLE
7	BREAKER SERVICE POSITION LIMIT SWITCH
6	BREAKER TEST POSITION LIMIT SWITCH
5	DOOR BYPASS INTERLOCK
4	SOCKET FOR VCB RACKING HANDLE
3	VIEWING WINDOW
2	VCB POSITION INDICATOR
1	MANUAL CLOSING HOLE



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