

Voltage Transformer Unit for Metering up to 24 kV

Introduction

CM is part of SM6 product range. This SM6 range is made up of modular unit and used for the MV section of MV/LV substation in secondary distribution system up to 24 kV.

Application :

CM is voltage transformer unit equipped with fuse and disconnecting switch and usually used for metering

This cubicle is normally installed together in the system with other part of SM6 product range such as IM, IMC, QM, QMC, PM, DM1 DM2, etc., in accordance with the design of a distribution system.

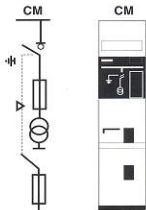
Basic Equipment :

- Disconnecter and earthing switch.
- Three phase busbar 630 A
- CS operating mechanism.
- Three 6.3 A solefuses
- LV circuit isolating switch.
- LV fuses
- Three voltage transformers (phase to earth)
- Heater 50 W, 220 V.

Optional Accessories :

- Large LV compartement on top of the cubicle, h = 450 mm
- Auxiliary contacts.
- Indicating contact for blown fuses.

* Other requirements please consult us



Characteristic :

Rated maximum Voltage (kV)	12		24	
	Rated voltage (kVrms)	7.2	12	17.5
Rated insulation level				
- 50Hz for 1 min (kVrms)	20	28	38	50
- impulse 1.2/50 μs (kVp)	60	75	95	125
Rated current				
- load break switch (A)	100		100	
- busbar (A)	630		630	
Short time withstand current				
- for rated current 630 A (kA / 1s)	12.5/14.5		12.5/14.5	
	16		16	
	20		20	

Making capacity is equal to 2.5 times the short-time withstand current

Standard

Recommendation :

IEC standard :

IEC 298, 265, 129, 694, 420, 56

UTE standard :

NFC 13.100, 13.200, 64.130, 64.160

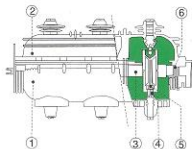
EDF specification :

HNI 64-S-41, 64-S-43
 SNI K-29-HB-01
 K-30-HB-02

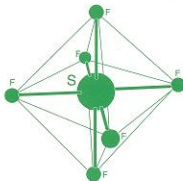
Colour :

White RAL 9002 Smooth
 Grey RAL 7030 Smooth
 (option)

Load break switch or disconnecter and earthing switch :



- 1 enclosure
- 2 cover
- 3 operating shaft
- 4 fixed contact
- 5 moving contact
- 6 seal



SM6 load break switches and earthing switches use sulphur hexafluoride gas (SF₆) for insulation and breaking. The active parts are placed in an insulated enclosure in accordance with the definition of IEC 56 / Appendix EE (1987 edition) for sealed pressure system. These devices offer remarkable characteristic :

- long life service
- maintenance - free active parts
- high electrical endurance
- over - voltage levels very low
- safety operation

Over all dimension	CM
Width	500 mm
Depth	940 mm
Height	1600 mm
LV compartment (h ¹) on top of cubicle	450 mm
Approximate weight	210 kg

Voltage Transformer for CM unit : Type VRQ2-N (*)

	24			
rated voltage (kV)				
primary voltage (kV)	$10/\sqrt{3}$	$15/\sqrt{3}$	$15-20/\sqrt{3}$	$20/\sqrt{3}$
secondary voltage (V)	100/ $\sqrt{3}$			
thermal power (VA)	250		150-250	250
accuracy class	0.5	0.5-1	0.5	0.5-1
rated output for single primary winding (VA)	30	30		30
rated output for double primary winding (VA)			30-50	

(*) VRQ2-N for Grounded neutral system
VRQ2 for Ungrounded neutral system

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