

MV prefabricated equipment

SM6

NSM Cubicle

Double Incoming Load Break Switch Unit up to 24 kV

Introduction

NSM 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 :

NSM is usually applied for incoming or and standby switchgear for on load switching.

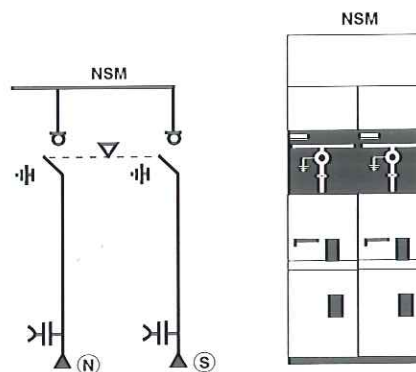
This NSM is normally installed together in the system with other part of SM6 product range such as QM, QMC, CM, DM1 DM2, etc., in accordance with the design of a distribution system.

Characteristic :

Basic Equipment :

- SF6 Functional load break switches and earthing switches
- Three phase busbar 630 A
- Motorized operating mechanism CI2 with
- 24 VDC opening and closing shunt trips.
- Voltage indicators

- Heater 50 W, 220 V
- Mechanical interlocking.
- Transfer Switch RCV 420 relay
- Battery charger 24 VDC.



Optional Accessories :

- Auxiliary contacts.
- Key type interlocks.

Standard Recommendation

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

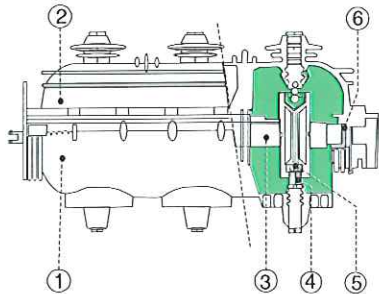
UTE standard :
NFC 13.100, 13.200, 64.130, 64.160

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

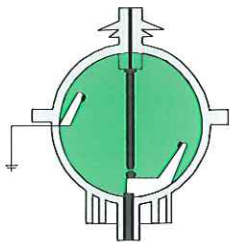
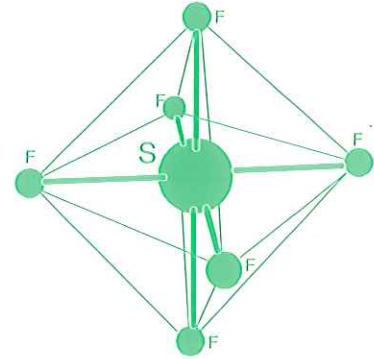
Colour :
White RAL 9002 Smooth
Grey RAL 7030 Smooth (option)

Rated maximum Voltage (kV)	12		24	
Rated voltage (kVrms)	7.2	12	17.5	24
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)	400/630		400/630	
- busbar (A)	630		630	
Short time withstand current				
- for rated current 400 A (kA/1s)	12.5/14.5		12.5/14.5	
- for rated current 630 A (kA/1s)	12.5/14.5		12.5/14.5	
	16		16	
	20		20	

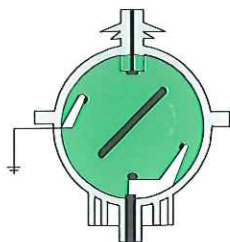
Load break switch or disconnecter and earthing switch :



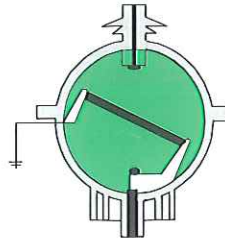
- 1 enclosure
- 2 cover
- 3 operating shaft
- 4 fixed contact
- 5 moving contact
- 6 seal



Contacts closed



Contacts open



Contacts earthed

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

Cable entry or exit :

- through left or right side
- rear or front with conduit
- bottom entry type or top entry (For top entry the depth of cubicle is added by 600 mm & the height is added by 400 mm)

Cabling :

Through trenches

Type of cables : single core or three cores

Over all dimension	NSM
Width	1000 mm
Depth	940 mm
Height	2050 mm
Approximate weight	260 kg
cable connec. height (measure from floor)	950 mm

X section (mm ²)	bending radius (mm)	depth of trench (mm)
50	370	140
70	400	150
95	440	160
120	470	200
150	500	220
185	540	270
240	590	330

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