

MV prefabricated equipment  
**SM6**  
 IM,IMC Cubicles

**Incoming or Outgoing Load Break Switch Unit up to 24 kV**

**Introduction**

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

**Application :**

IM is usually applied for incoming or out going switchgear for on load switching. IMC is IM type cubicle with additional current transformer for measurement. ( for overload protection please consult us )

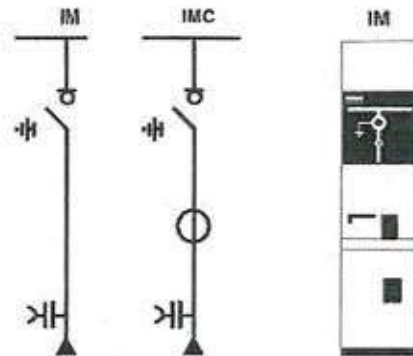
This IM or IMC is normally installed together in the system with other part of SM6 product range such as QM, QMC, CM, DM1 DM2, etc., in accordance with the design of a distribution system.

**Characteristic :**

Rated maximum Voltage (kV)	12		24	
Rated voltage (kVrms)	7.2	12	17.5	24
<b>Rated insulation level</b>				
- 50Hz for 1 min (kVrms)	20	28	38	50
- impulse 1.2/50 $\mu$ s (kVp)	60	75	95	125
<b>Rated current</b>				
- load break switch (A)	400/630		400/630	
- busbar (A)	630		630	
<b>Short time withstand current</b>				
- 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	

**Basic Equipment :**

- SF6 Functional load break switch and earthing switch
- Three phase busbar 630 A
- CIT & CI2 operating mechanism (IM)
- CI1 operating mechanism (IMC)
- Voltage indicators
- Heater 50 W, 220 V
- Three current transformers (IMC)



**Optional Accessories :**

- Large LV compartment on top of the cubicle, h = 450 mm.
- Motor operating mechanism (for further detail please consult us).
- Auxiliary contacts. Key type interlocks.
- Ring CT's + Ampere meter (IM)

**Standard Recommendation**

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

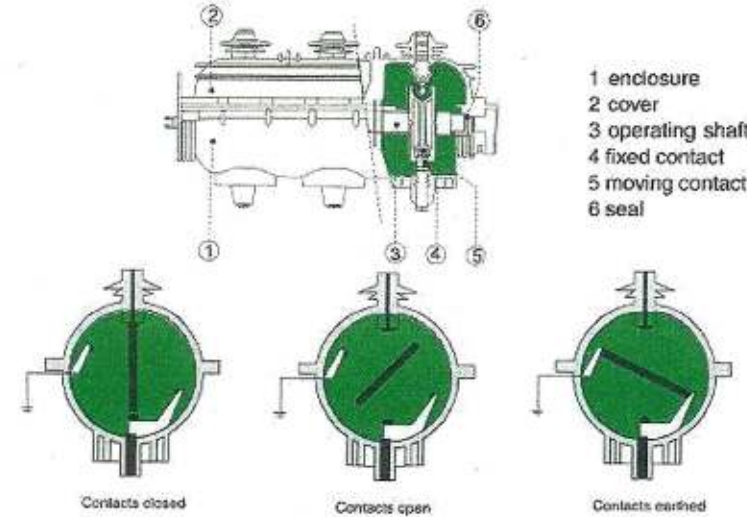
UTE standard :  
 NFC 13.100, 13.200, 64.130, 64.160

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 disconnector and earthing switch :**



Over all dimension	IM	IMC
Width	500 mm	500 mm
Depth	940 mm	940 mm
Height	1600 mm	1600 mm
LV compartment (h') (option)	450 mm	450 mm
Approximate weight	120 kg	200 kg
Cable connec height (measure from floor)	950 mm	450 mm

**Cable entry or exit :**

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

**Current transformer for IMC unit : transformer type ARM2/N2F**

- single primary winding
- double secondary winding for measurement and protection.

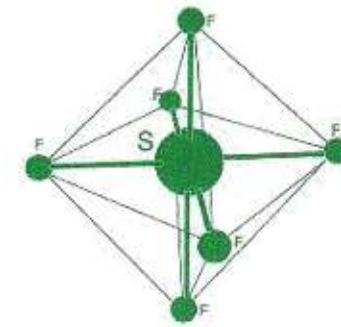
**Short-time withstand current Ith (kA)**

IIn (A)	50	75	100	150	400	600
Ith (kA)	12.5	16		25		
t (s)	0.8	1	0.8		1	
measurement and protection*	5A	7.5 VA-class 0.5				
	1A	1 VA-10P20				
	5A	10 VA-5P10				

\* CT for overload protection please consult us  
 \* Ring CT's for IM please consult us

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MICLEAF382002EN  
 (replacing IVP003E1)



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 characteristics:

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

**Cabling :**

Through trenches  
 Type of cables : single core or three cores (for IM only)

X section (mm <sup>2</sup> )	bending radius (mm)	depth of trench (mm)	
		IMC	IM
50	370	400	140
70	400	430	150
95	440	470	160
120	470	500	200
150	500	550	220
185	540	670	270
240	590	730	330

**Auxiliary power supply :**

for electrical operating mechanism (when applicable)  
 DC : 110 V or AC : 220 V 50 Hz  
 24 V 110 V 50 Hz  
 48 V

Customer Service:  
 Ph. (021) 750 4406 ext 2381, 2384, 2389  
 (021) 750 4938  
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