Sigen Transformer Station

Preliminary

SigenMVT	4000H1	9000H1	Units
Input			
Compatible inverters	Sigen PV 500H1, Sigen PV 500H1-T		
AC power	4,600 kVA@40°C	9,200 kVA@40°C	
Rated input voltage	1,000		V
LV main inputs (ACB)	4,000 A / 1,000 V / 3P, 1 pcs	4,000 A / 1,000 V / 3P, 2 × 1 pcs	
LV main inputs (MCCB)	400 A / 1,000 V / 3P, 10 pcs	400 A / 1,000 V / 3P, 2 × 10 pcs	
Output			
Rated output voltage [1]	10 / 11 / 13.8 / 15 / 20 / 22 / 25 / 30 / 33 / 34.5 / 35 / 36		kV
Frequency	50 / 60		Hz
Transformer type	Oil-immersed, Conservator type		
Transformer cooling type	ONAN		
Transformer tapping	± 2 × 2.5%		
Transformer oil type	Mineral Oil (PCB Free)		
Transformer vector group	Dy11	Dy11-y11	
Transformer min. peak efficiency index	Tier 1 or Tier 2 in accordance with EN 50588-1		
RMU type	SF_6 / SF_6-Free [2]		
RMU transformer protection unit	MV vacuum circuit breaker unit		
RMU cable incoming / outgoing unit	Direct cable unit or cable load break switch unit		
Auxiliary transformer	Dry type transformer, 5 kVA, li0		
Output voltage of auxiliary transformer	230		V
Protection			
Transformer monitoring & protection	Oil level, Oil temperature, Oil pressure and buchholz		
Protection degree of MV & LV room	IP54		
Internal arcing fault	IAC A 20 kA 1s (default) / IAC A 25 kA 1s (optional)		
MV replay protection	50 / 51, 50N / 51N		
LV overvoltage protection	Type I+II		
Anti-corrosion protection [3]	C5-M in accordance with ISO 12944		
Features [4]			
UPS	Optional		
MV surge arrester for transformer	Optional		
IMD	Optional		
24 kV SF_6-free RMU	Optional		
General Data			
Dimensions (W / H / D)	6058 / 2896 / 2438 (20′ HC Container)		mm
Weight	< 25	< 30	t
Operating temperature range [5]	-25°C ~ 60°C (-13 °F ~ 140 °F)		
Relative humidity range [6]	0% ~ 95%		
Prefabrication	Supported		
LV & MV room cooling	Without air-across for higher availability		

1. Rated output voltage from 10 kV to 35 kV, more available upon request.
2. 24kV SF_6-free RMU is optional.
3. Sigenergy offers C5-H as an optional feature.
4. Extra expense needed for optional features which standard product doesn't contain, more options upon request.
5. When ambient temperature 55°C , awning shall be equipped for SigenMVT series on site by customer.
6. For higher operating altitude, please consult with Sigenergy.

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