Comments & deviations regarding the specification SME-131.3

General

- cl. 6.8 h ii) the pressure distance of the 1st and 2nd alarm levels of the used densimeters is approx. 50 kPa in accordance with our factory standard.

- cl. 6.20: the housing material of the offered CT's and combined CT/VT's is a corrosion and seawater-proof Aluminum alloy (AlMgSi) and bolting material stainless steel. Therefore, extra corrosion protection by painting is not necessary (necessity for painting only required for steel parts as per cl. 7.20). The only part of carbon steel is the transformer feet which will be hot dip galvanized and painted in RAL 9006 (aluminum grey).

Item related data

Table 5-1 (h)
Considering accuracy class specification 0.2 ext. 150% - primary thermal limit current related to ratio 1600/1 is 2400A.

Additional Information

Option for insulators for pollution level IV
- the offered prices refer to insulators corresponding to pollution level III -high- (creepage distances >9050mm for Um=362kV) with clearance distance as per following table
- implementation of insulators corresponding to pollution level IV -very high- (creepage distances >11222mm for Um=362kV) refers to the indicated price adder

parameter	Um=362kV	
	III	IV
specified creepage /mm	>9050	>11222
clearance /mm	3000	3210
price adder/€	-	350,-

- the used shed parameters are confirmed to be in accordance with the requirements of IEC 60815, further details to be supplied in case of award on request.

- the admissible forces at the HV terminals of the offered IT's are in accordance with load class II of AS 60044-1 table 8.

- the CT cores are confirmed to of wound toroid design with used materials being in accordance with European EN standards and German DIN standards; used current density confirmed to be in accordance with IEC recommendations; further details will be supplied in case of award

- details of HV and LV VT windings:
  the VT windings are manufactured in accordance with relevant standards (IEC, AS) with used materials being in accordance with European EN standards and German DIN standards; used current density confirmed to be in accordance with IEC recommendations; further details will be supplied in case of award

Item R1M) Outdoor Combined Current & Voltage Metering Group 330 kV

Apparatus Type:	SVAS 362
Standards:	AS 60044.1 / -.2 / -.3
Insulation medium:	SF_6-gas
Leakage rate	≤ 0,2% p.a. as design test
Proof of leakage rate in routine factory test for	≤ 0,5% p.a. on each unit
Insulation class:	E
Design:	Explosionproof

Service conditions:

- Maximum altitude	1000 m
- Ambient temperature range	-10 °C to + 50 °C

Electrical data

- Rated voltage U_N phase to phase	330 kV (r.m.s.)
- Highest voltage U_m phase to phase	362 kV (r.m.s.)
- Rated power frequency f_N	50 Hz
- Insulation level valid for standard atmospheric conditions	
Rated power-frequency withstand voltage (50 Hz)	510 kV (r.m.s.)
Rated lightning impulse withstand voltage	1175 kV (peak)
Rated switching impulse withstand voltage	950 kV (peak)

CT Section

- Rated short-time thermal current (I_{th})	50 kA (1 s)
- Rated dynamic current (I_{dyn})	125 kA
- Primary rated current	1600-800-600-400 A
- Primary continuous thermal current rating	**2400** A
- Secondary continuous thermal current rating	2 A

- Ratio / Burden / accuracy class:

cores 1-2:	1600-800-400 // 1 A	
	5VA cl. 0.2	Ext 150% on 1600/1, 1200/1, 1000/1, 800/1, 600/1, 400/1
	5VA cl. 0.5	Ext. 150% on 200/1

VT Section

- Ratio / burden / accuracy class:

windings 1-2:	330:√3 // 0.11:√3 kV	50 VA cl. 0.2 & 3P
- Total thermal limiting burden:	2000 VA	
- Voltage factor	1.2 x Un continuously	
	1.5 x Un / 30 s	

Mechanical data

- Insulator:	Composite insulator with silicone sheds, grey
- Creepage distance:	≥ 25 mm/ kV
- Flashover distance:	3000 mm
- Admissible continuous static load on HV terminals:	per AS 60044.1 table 8 load class II

Accessories

- HV - Terminal: Aluminum flat pad 300 x 135 mm, with 6 holes ∅ 18 mm, 3 holes on axis, hole center distance 70 x 60 mm (acc. to QEC drawing No. A3-H-114167-01 type 3)
- Primary terminal markings
- Lifting lugs ∅ 50 mm
- Secondary terminal box with cable lead ingress sealed by removable plate, secondary terminals: Phoenix clamps UK10N
- Gas supervision: Densimeter, temperature compensated, with 2 alarm contacts and integrated transducer with 4-20mA output signal
- External grounding terminal: stainless steel 40 x 80 mm with 2 holes ∅14mm, center distance 40 mm
- Rating & scheme plates in English language
- Surface protection:
  Steel parts: Zinc layer protected, painted in RAL 9006 (Aluminum silver)
  Aluminum parts: Consisting of corrosion proof Aluminum alloy; unpainted

Dimensions and weights (approximative)

- similar to drawing 602 177