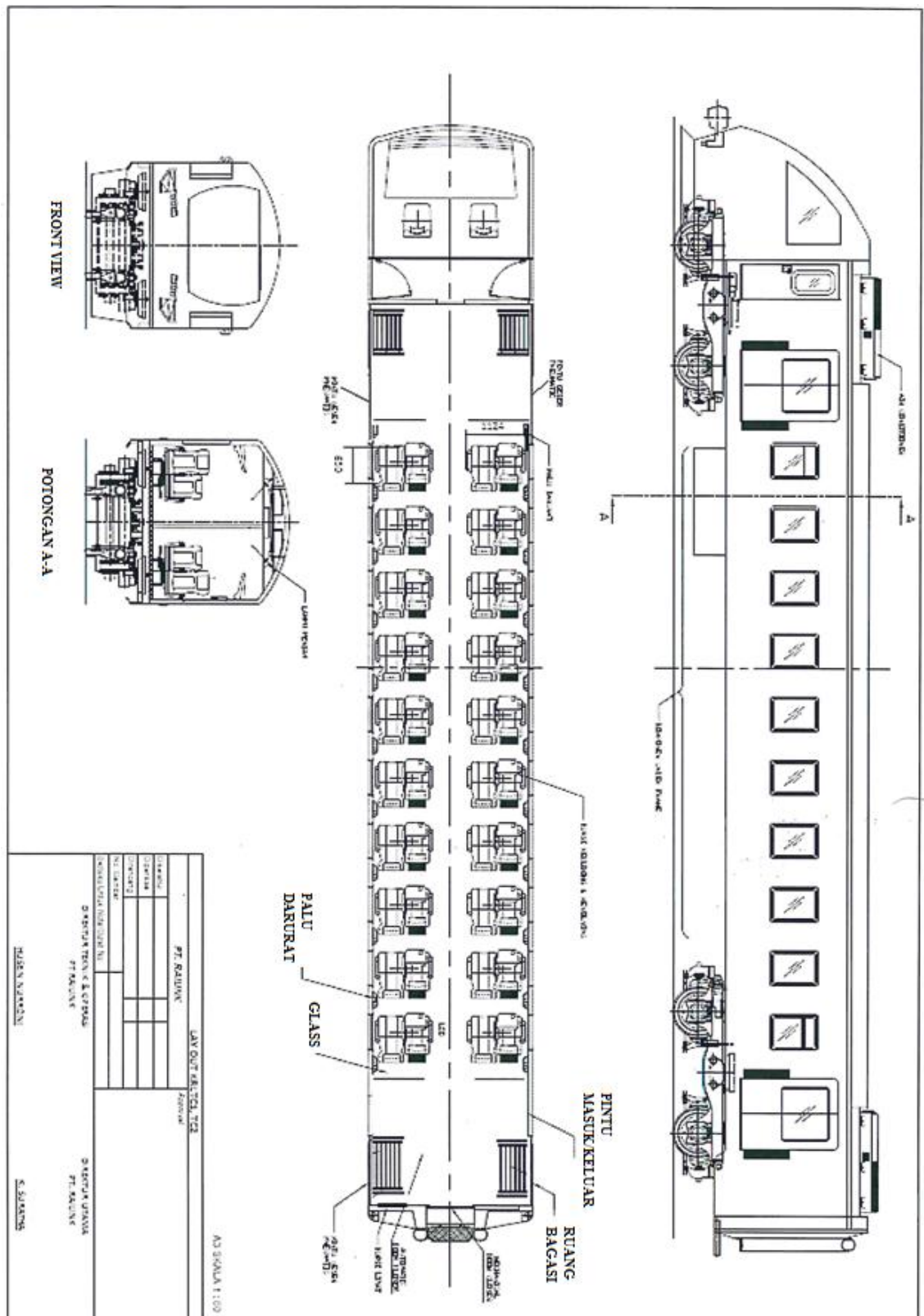
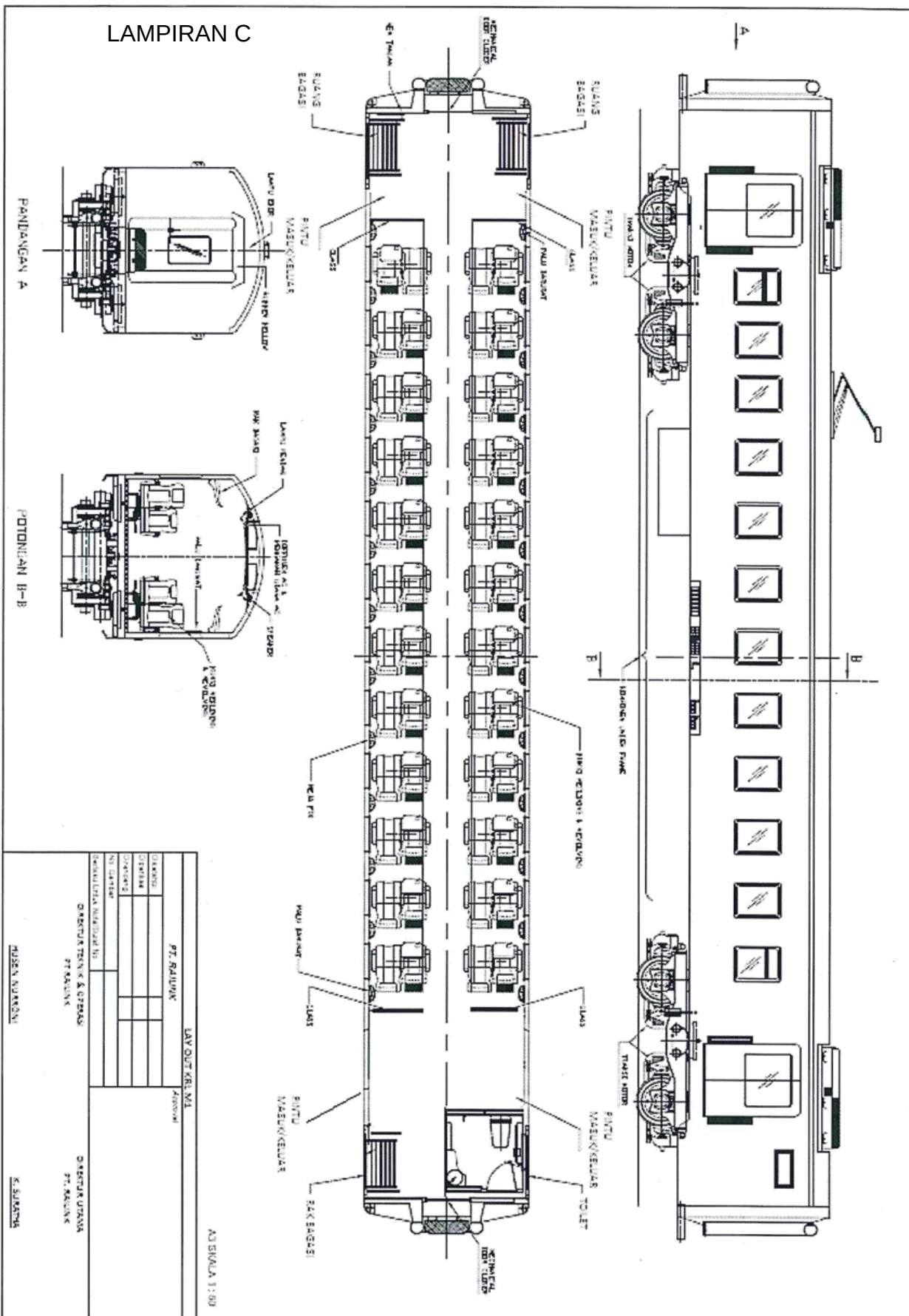


[illegible]

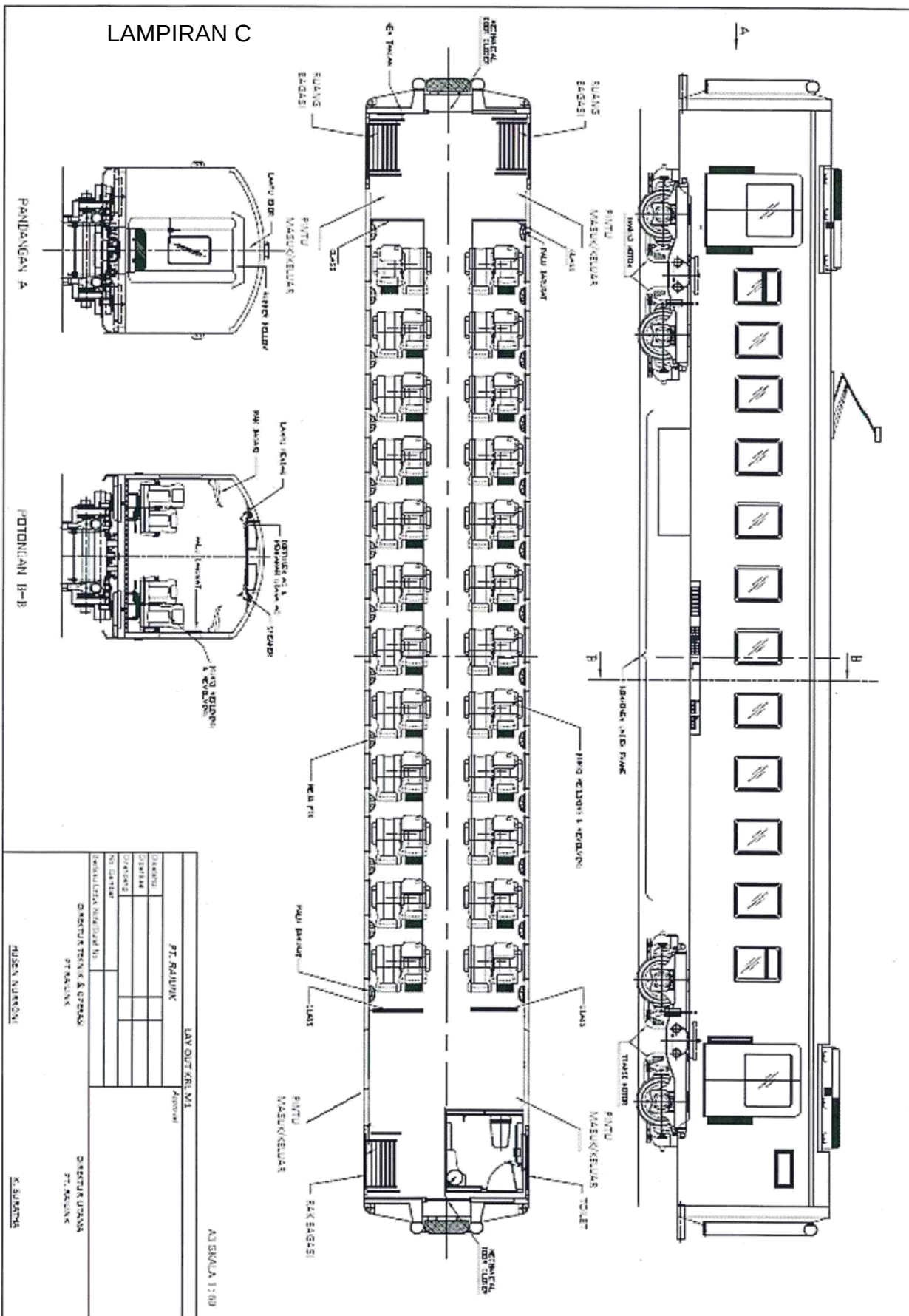
LAMPIRAN C



LAMPIRAN C



LAMPIRAN C



LAMPIRAN C



Operating times : Raising Time: 5–7
sec lowering Time : < 5 sec

Tinggi pantograph:

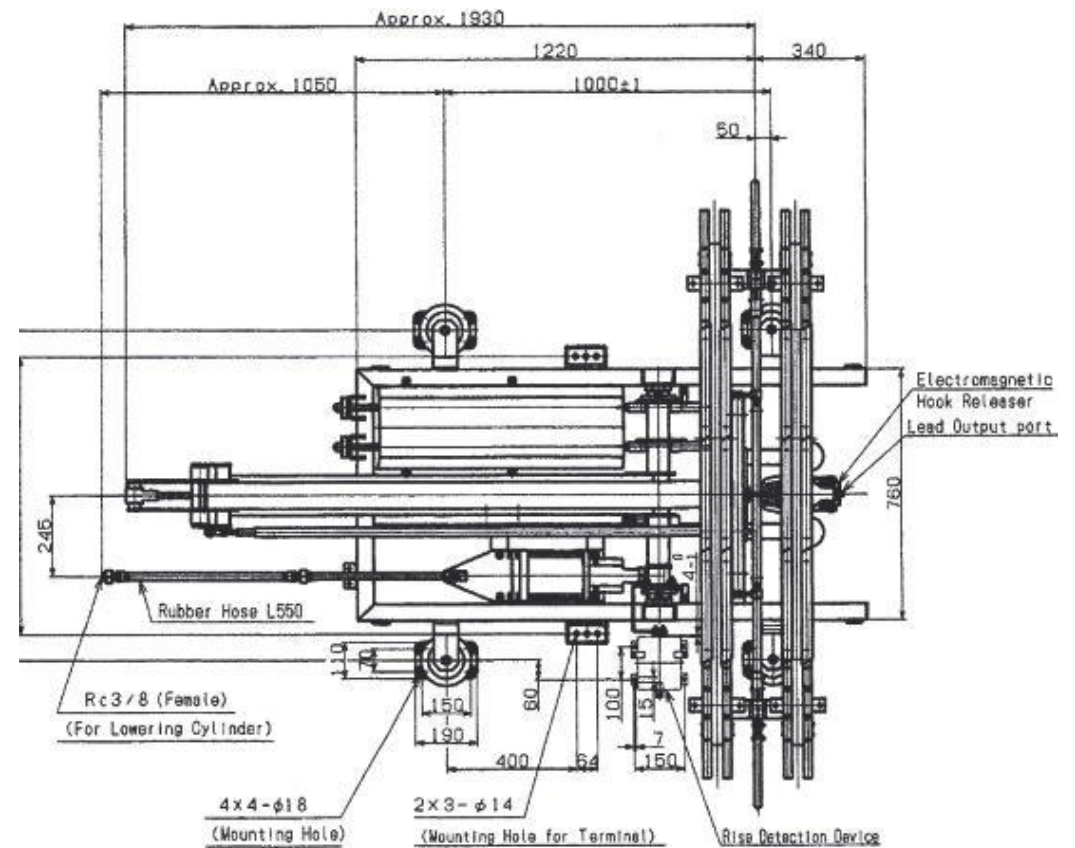
Folded height : 275 mm

Min. working height : 365 mm

Normal working height : 1980 mm

Max. working height : 2385 mm

Fully raises height : 2485 mm



LAMPIRAN C

- Salah satu **piranti proteksi** system kelistrikan pada Kereta Rel Listrik, ketika terjadi **sambaran petir**.



Spesifikasi Teknis:

- Tegangan maksimum saat beroperasi : 2500 V
- Max discharge current (impuls): 100 kA, standard wave 4/10 μ s x 2 times
- Max discharge current (thermal): 1200A, rectangular wave 2 ms x 20 times
Maximum value of residual voltage at: 6.1 kV at 10 kA 8/20

LAMPIRAN C

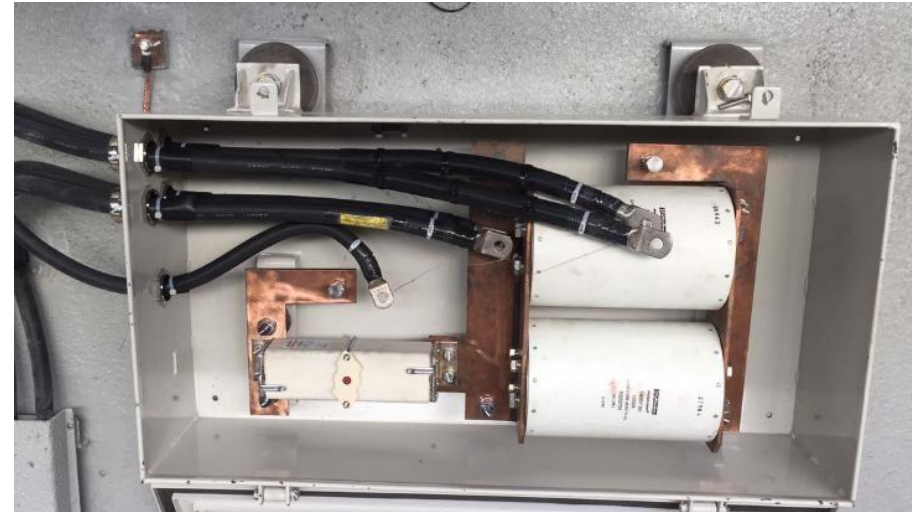
Auxiliary dan Main Fuse adalah salah satu peralatan proteksi pada sistem Propulsi dan auxiliary. berfungsi untuk melindungi peralatan listrik di KRL dari **arus hubung singkat**

Input :

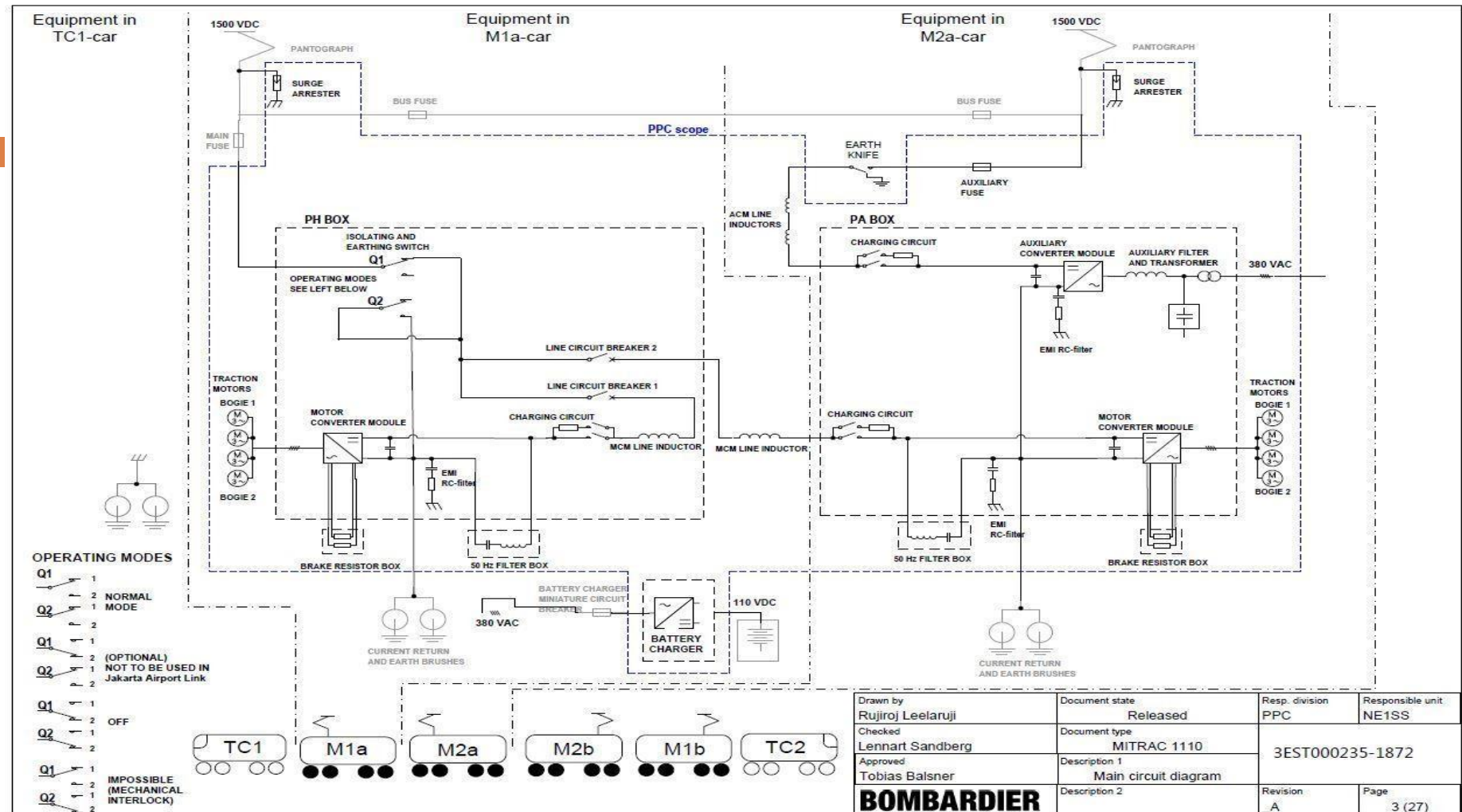
- Tegangan input 1000 VDC-1800 VDC

Output :

- Arus Output : 2000A DC/2000A DC
- Temperatur: -10 Celciusdegrees- +40 Celcius degrees
- Kelembapan : 0–95%
Tegangan Isolasi : 2500V AC untuk 1 menit



LAMPIRAN C



LAMPIRAN C

ACM adalah modul converter yang dihubungkan langsung ke sistem chatenary. ACM mencakup semua control elektronik yang diperlukan.

Kontrol elektronik dipasang dari sistem batrai melalui power supply. Sistem tegangan yang diberikan ke converter sebesar 1500V DC.

Spesifikasi Teknik :

- **IGBT type** : 3300V/800A
- **Charging resistor** : 50 Ω
- **DC link capacitance** : 2.7 mF
- **Nominal output voltage (RMS phase-phase)** : $3 \times 380 \pm 5 \% V$
- **Output frequency [Hz]** : $50 \pm 1 \% Hz$
- **Output power, continuously ($\cos\phi = 0.8$)** : $4 * 180 kVA$
- **3-phase inductor** : $3 * 700 \mu H$
- **3-phase capacitor** : $3 * 50 Mf$
- **3-phase transformer** : 660/380 (Max power 220 kVA)

