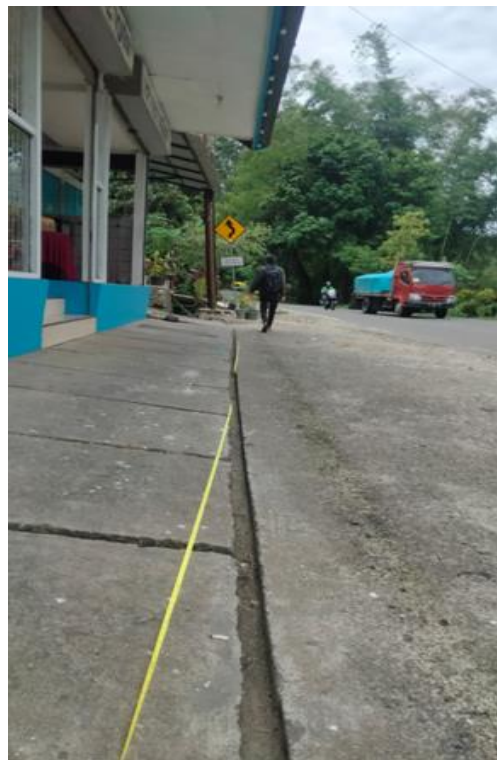


LAMPIRAN













• Penghantar Aluminium 120 mm²

Pemilihan Jarak Tegangan

$$AV = \frac{855 \times (140.000 \times 40.33\%) }{AB \times 130 \times 52.7}$$

$$= \frac{55.226.160}{1.640.262}$$

$$= 33.64 \text{ V}$$

Tegangan Ujung 3 Fase

$$V_{ujung} = 418 - 33.64$$

$$V_{ujung} = 384.35 \text{ V}$$

Tegangan Ujung 1 Fase

$$V_{1 \text{ fase}} = \frac{384.35}{\sqrt{3}}$$

$$V_{1 \text{ fase}} = 221.89$$

• Penghantar Tembaga 120 mm²

Pemilihan Jarak Tegangan

$$AV = \frac{855 \times (160.000 \times 42.33\%) }{AB \times 120 \times 56}$$

$$= \frac{55.226.160}{2.208.000}$$

$$= 24.96 \text{ V}$$

Tegangan Ujung 3 Fase

$$V_{ujung} = 418 - 24.96$$

$$V_{ujung} = 393.04$$

Tegangan Ujung 1 Fase

$$V_{1 \text{ fase}} = \frac{393.04}{\sqrt{3}}$$

$$V_{1 \text{ fase}} = 226.98 \text{ V}$$

$Ap = 160.000 \times 40.33\%$
 $P = 160.000 \times 0.4033$
 $P = 64.528 \text{ VA}$

• Penghantar Aluminium 150 mm²

Pemilihan Jarak Tegangan

$$AV = \frac{855 \times (160.000 \times 40.33\%) }{AB \times 150 \times 52.7}$$

$$= \frac{55.226.160}{2.450.250}$$

$$= 22.53 \text{ V}$$

Tegangan Ujung 3 Fase

$$V_{ujung} = 418 - 22.53$$

$$V_{ujung} = 395.47 \text{ V}$$

Tegangan Ujung 1 Fase

$$V_{1 \text{ fase}} = \frac{395.47}{\sqrt{3}}$$

$$V_{1 \text{ fase}} = 228.79$$

• Penghantar Tembaga 150 mm²

Pemilihan Jarak Tegangan

$$AV = \frac{855 \times (160.000 \times 40.33\%) }{AB \times 150 \times 56}$$

$$= \frac{55.226.160}{3.511.200}$$

$$= 15.73 \text{ V}$$

Tegangan Ujung 3 Fase

$$V_{ujung} = 418 - 15.73$$

$$V_{ujung} = 402.27 \text{ V}$$

Tegangan Ujung 1 Fase

$$V_{1 \text{ fase}} = \frac{402.27}{\sqrt{3}}$$

$$= 232.35 \text{ V}$$