

LAMPIRAN

Lampiran 1 Perhitungan pengujian blok rotor

$$I_{sc} = 2 \text{ A}$$

$$V_{sc} = 86 \text{ V}$$

$$P_{sc} = 170 \text{ W}$$

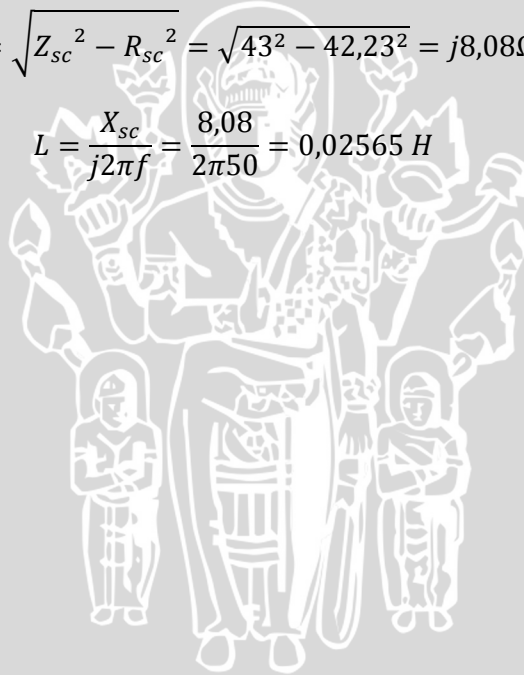
$$Z_{sc} = \frac{V_{sc}}{I_{sc}} = \frac{86}{2} = 43 \Omega$$

$$\cos\phi = \frac{P_{sc}}{V_{sc} \cdot I_{sc}} = \frac{170}{86 \cdot 2} = 0,982$$

$$R_{sc} = Z_{sc} \cdot \cos\phi = 43 \cdot 0,982 = 42,23 \Omega$$

$$X_{sc} = \sqrt{Z_{sc}^2 - R_{sc}^2} = \sqrt{43^2 - 42,23^2} = j8,08 \Omega$$

$$L = \frac{X_{sc}}{j2\pi f} = \frac{8,08}{2\pi 50} = 0,02565 \text{ H}$$



Dokumentasi





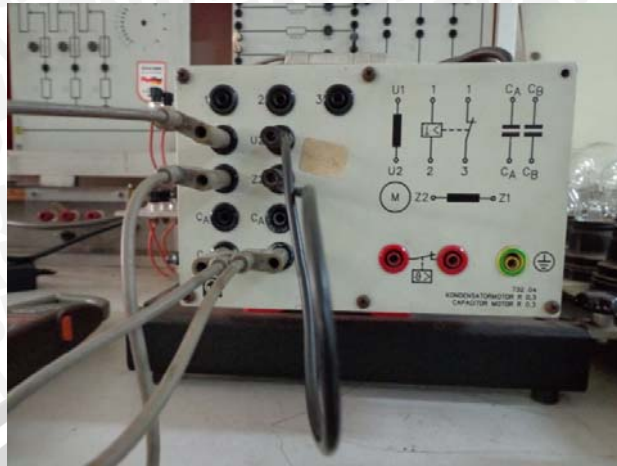
Motor penggerak dan generator sinkron



DC voltage regulator sebagai penguatan medan



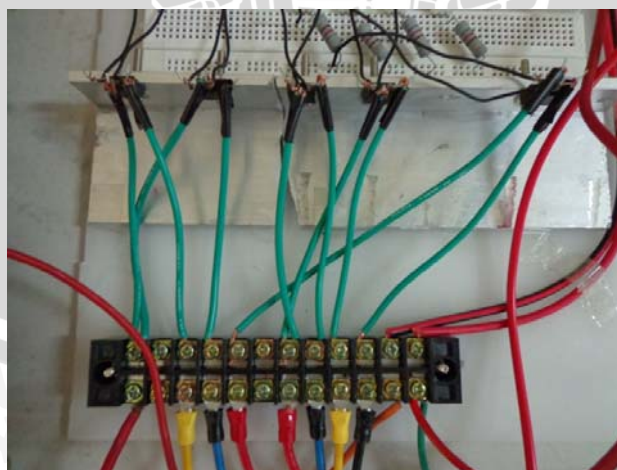
Motor kapasitor



Motor kapasitor



Beban utama



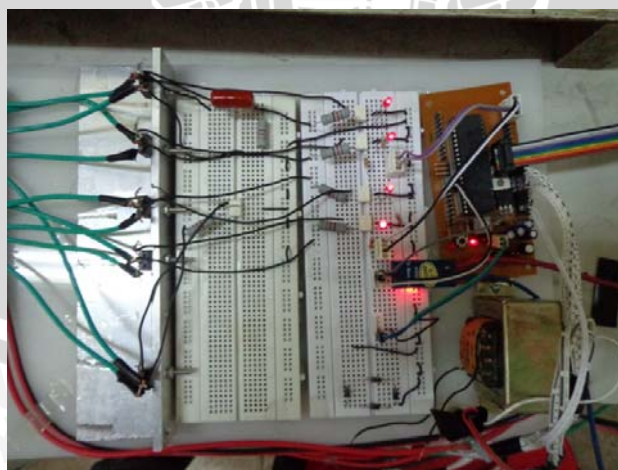
TRIAC dan terminal beban



Pengambilan data



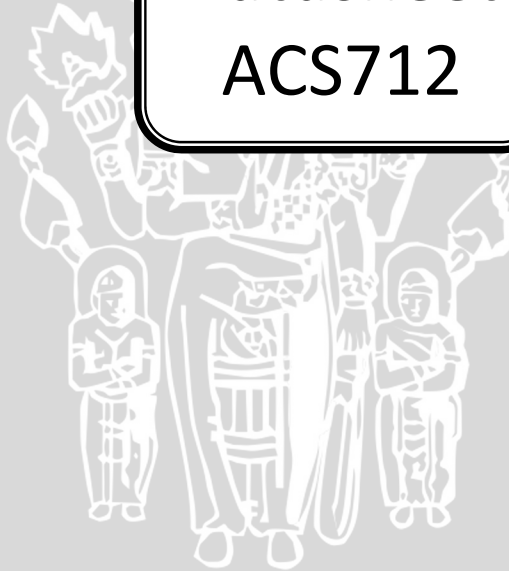
Beban komplemen resistif



Modul ELC

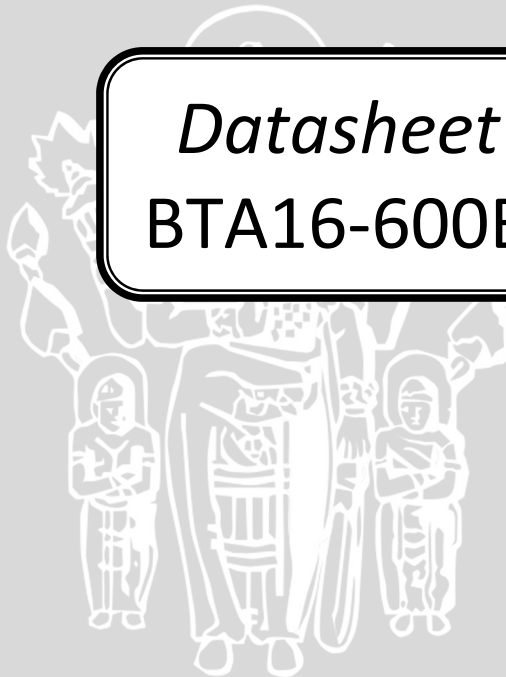
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Datasheet
ACS712



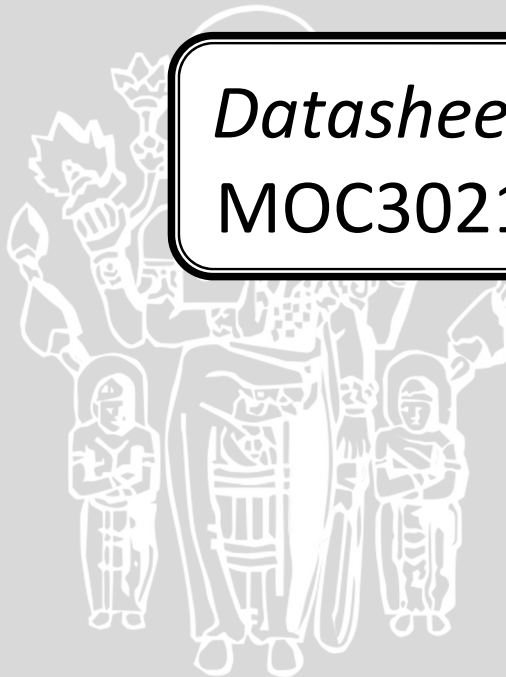
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Datasheet
BTA16-600B



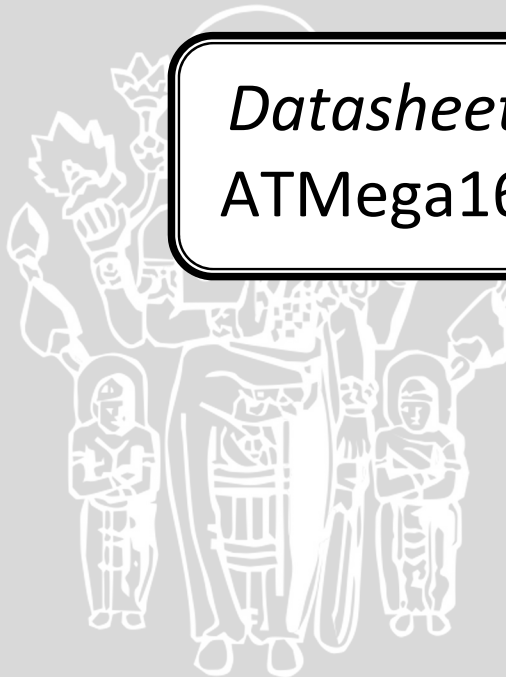
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Datasheet
MOC3021



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Datasheet
ATMega16



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*Listing
Program*

