

***TRAINER KIT* PENGONTROLAN MOTOR INDUKSI 3 FASA
FORWARD-REVERSE SERTA ANALISA ARUS *STARTING*
TERHADAP VARIASI TEGANGAN**

Nama : Nurdaim
NIM : 3204181220
Pembimbing : Zainal Abidin, ST., MT



ABSTRAK

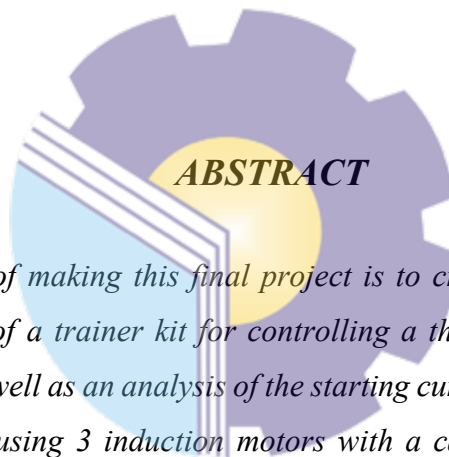
Tujuan dari pembuatan tugas akhir ini adalah untuk membuat media pembelajaran praktikum dalam bentuk *trainer kit* pengontrolan motor induksi tiga fasa *forward reverse* serta analisa arus *starting* terhadap varisasi tegangan.

Pada penelitian ini menggunakan motor induksi 3 berkapasitas 0,95 kW atau 950 Watt, 380V dan 4 *pole* (Δ). Pengujian pertama dilakukan secara manual, arus *staring forward* yang terukur 2,76 A, secara perhitungan 2,77A dan untuk arus *starting reverse* terukur 2,82 A secara perhitungan sama 2,82 A saat tegangan 380V. Sedangkan pengujian kedua dilakukan secara otomatis, arus *starting forward* yang terukur 2,71 A sama dengan perhitungan 2,7A dan untuk *reverse* terukur 2,83A juma sama secara perhitung sebesar 2,82 A.

Kata kunci: *Trainer Kit*, Motor induksi, Arus *starting*

***TRAINER KIT FORWARD-REVERSE 3 PHASE INDUCTION
MOTOR CONTROL AND STARTING CURRENT ANALYSIS OF
VARIATION OF VOLTAGE***

Name : Nurdaim
NIM : 3204181220
Supervisor : Zainal Abidin, ST., MT



The purpose of making this final project is to create a practicum learning media in the form of a trainer kit for controlling a three-phase forward reverse induction motor as well as an analysis of the starting current for voltage variations.

In this study using 3 induction motors with a capacity of 0.95 kW or 950 Watts, 380V and 4 poles (Δ). The first test was done manually, the starting forward current measured 2.76 A, calculated 2.77A and for the starting reverse current measured 2.82 A, calculated the same as 2.82 A when the voltage is 380V. While the second test is carried out automatically, the measured forward starting current of 2.71 A is the same as the calculated 2.7A and the measured reverse is 2.83A the same as the calculated 2.82 A.

Keywords: Trainer Kit, Induction motor, Starting current