

AC MOTOR CONTROL BY INVERTER TRAINER

Model Number : GOTT-ACMCBI-152

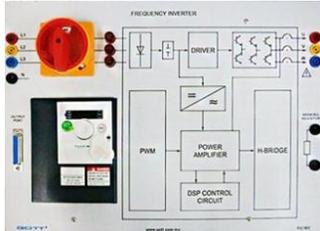
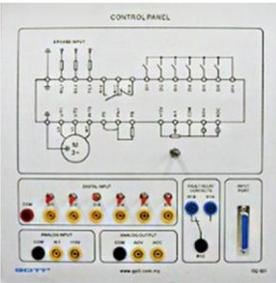
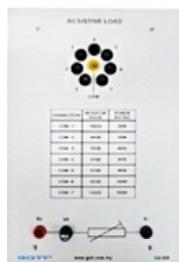
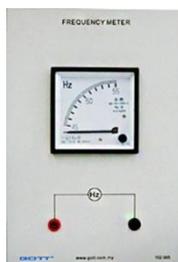
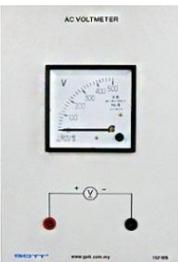


DESCRIPTION

The trainer has been created for learning of speed control of AC motor with inverter controller. Can be control both open-loop and close-loop method. Used frequency inverter as speed control unit.

The individual units of an experimental set-up are connected via 4-mm. safety sockets which are arranged in large, synoptically graphical symbols or current flow diagrams. Due to the vertical arrangement of the experimental panels, the experimental set-up can be seen from a far distance and can be adapted step by step to the course of the lessons or lectures.

PRODUCT MODULES

FREQUENCY INVERTER	CODE 152-003	POWER SUPPLY CONSOLE	CODE 152-001	CONTROL PANEL	CODE 152-002		
<ul style="list-style-type: none"> Input : 3 x 415VAC/50-60 Hz (IL, N 1.6A continuous, IL, N (60S) 2.6A max.) Output : 0-100 % of power supply (IINV1.7A, I_{max} (60S) 2.7A, SINV 1.1kVA, PM,N 0.55kW, PM,N 0.75 HP) Port : 1 Port control (DB-15) for link control panel Torque characteristics : Constant torque 160% in 1 min Variable torque 160% in 1 min High starting torque 180% for 0.5 sec Control characteristics : Frequency range 0.2-132 Hz, 1-1000Hz Speed control range : Open loop 1:15 of synchronous speed Close loop 1:120 of synchronous speed Rang Type : Linear, Sine shaped Display : LED 6 digit 		<p>There are six modules as per follows:</p> <ul style="list-style-type: none"> Socket Outlet 240/415VAC Power Socket 240/415VAC Power Supply 240VDC 1A Double Outlet 2P + PE 16A 240VAC Schuko Socket 2P + PE 16A 240VAC Main Power Supply 240/415VAC 		<ul style="list-style-type: none"> Digital input : 6 points (12, 18, 19, 17, 19, 33) Analog input : 3 points (0~10 V, 4~20 mA, Common) Analog output : 2 points (+40, -55) Input port : DB 25 connect to inverter 			
<p>Resistance : 1~7 Steps</p> 	<p>CODE 152-004</p>	<p>FREQUENCY METER</p> <ul style="list-style-type: none"> Range : 46~54 Hz Accuracy : Class 1.5 Voltage coil : 240VAC 	<p>CODE 152-005</p>	<p>AC VOLTMETER</p> <ul style="list-style-type: none"> Type : Moving coil Range : 0~500 VAC Accuracy : Class 1.5 	<p>CODE 152-006</p>	<p>DC VOLTMETER</p> <ul style="list-style-type: none"> Type : Moving coil Range : 0~300 VDC Accuracy : Class 1.5 	<p>CODE 152-007</p>

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AC AMMETER CODE 152-008 <ul style="list-style-type: none"> AC Ammeter 0-1.5A 	DC AMMETER CODE 152-009 <ul style="list-style-type: none"> DC Voltmeter 0-300V 	THREE PHASE WATTMETER CODE 152-010 <ul style="list-style-type: none"> Wattmeter 1000W 415VAC 3P 	LAMP LOAD 220 VAC 40 W X 5 CODE 152-011 <ul style="list-style-type: none"> Lamp type: Incandescent 
TACHO GENERATOR CODE 159-017 <ul style="list-style-type: none"> Speed : 2000rpm Output : Max. 20VDC 	DC GENERATOR CODE 152-013 <ul style="list-style-type: none"> Power : 150W Exciting voltage : 220 VDC Output voltage : 220 VDC at 4000 rpm Current limit : 1.46 A 	THREE PHASE INDUCTION MOTOR CODE 159-004 <ul style="list-style-type: none"> Power : 170kW Voltage rate : 415VAC Current rate : 0.45A Speed : 1500 rpm Connection: Δ & Y 	PULLEY AND RUBBER COUPLING CODE 431-000 
U-LINK CODE 159-019 <ul style="list-style-type: none"> For connecting junction point 	SAFETY CONNECTING LEAD CODE 237-000 <ul style="list-style-type: none"> Quantity 40 pcs <ul style="list-style-type: none"> Length 50 cm (30 pcs) Length 100 cm (10 pcs) 	VERTICAL FRAME CODE 297-000 <ul style="list-style-type: none"> High level : DIN standard A4 with two shelves Material: Aluminium Side Frame: T shape Size: 3-Layer 1450mm Length 	EXPERIMENT MANUAL CODE 152-018 

EXPERIMENT TOPICS :

- Start-stop control induction motor with key pad
- Start-stop control induction motor with external signal
- Motor control reversing
- Motor speed control by variation frequency type
- Motor speed control by DC voltage (0-10V)
- Fixed time frequency increment start motor and stop according to frequency decrement
- Fixed time frequency increment start motor and stop motor with DC brake
- Motor speed control by frequency increment and decrement with panel SW
- Motor speed control by speed selection with panel SW
- Motor speed control by Jog frequency type
- Open-loop motor control
- Close-loop motor control

Manuals:

- All manuals are written in English
- Model Answer
- Teaching Manuals

General Terms :

- Accessories will be provided where applicable
- Manual & Training will be provided where applicable
- Design & specifications are subject to change without notice
- We reserve the right to discontinue the manufacturing of any product

Warranty :

2 Years

ORDERING INFORMATION :

ITEM	MODEL NUMBER	CODE
AC MOTOR CONTROL BY INVERTER TRAINER	GOTT-ACMCBI-152	152-000

* Proposed design only, subject to changes without any notice.