

AC MOTOR CONTROL BY INVERTER TRAINER

Model Number : GOTT-ACMCBI-152

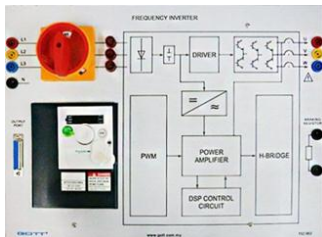

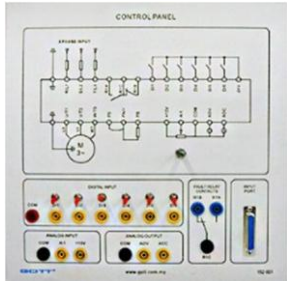
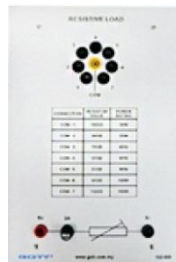

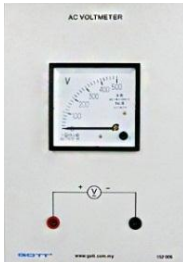



DESCRIPTION

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 , SIN V 1.1kVA, PM,N 0.55kW, PM,N 0.75 HP)Port : 1 Port control (DB-15) for link control panelTorque characteristics : Constant torque 160% in 1 min Variable torque 160% in 1 min High starting torque 180% for 0.5 secControl characteristics : Frequency range 0.2-132 Hz, 1-1000HzSpeed control range : Open loop 1:15 of synchronous speed Close loop 1:120 of synchronous speedRang Type : Linear, Sine shapedDisplay : LED 6 digit 			<p>There are six modules as per follows:</p> <ul style="list-style-type: none">Socket Outlet240/415VACPower Socket 240/415VACPower Supply 240VDC 1ADouble Outlet 2P + PE 16A 240VACSchuko Socket 2P + PE 16A 240VACMain 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 	
RESISTIVE LOAD	CODE 152-004	FREQUENCY METER	CODE 152-005	AC VOLTMETER	CODE 152-006	DC VOLTMETER	CODE 152-007	
<ul style="list-style-type: none">Resistance : 1~7 Steps 		<ul style="list-style-type: none">Range : 46~54 HzAccuracy : Class 1.5Voltage coil : 240VAC 		<ul style="list-style-type: none">Type : Moving coilRange : 0~500 VACAccuracy : Class 1.5 		<ul style="list-style-type: none">Type : Moving coilRange : 0~300 VDCAccuracy : Class 1.5 		

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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.