

ELECTRICAL MACHINE TRAINER


Model Number : GOTT-EMT-1543



DESCRIPTION

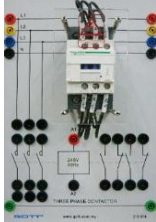
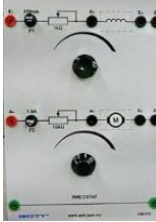



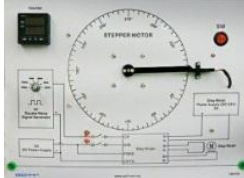


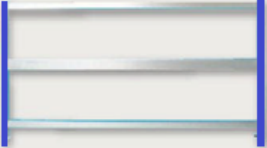


The Standard Lab has been designed for experiments and testing in Electrical Machines in education. The machines are basically industrial models, self protect kind, with coupling half joint, especially equipped to be suitable for students training in laboratory. For this purpose the winding ends are connected to 4 mm safety socket in a metal housing on top of which a clear synoptic diagram is engraved as an educational terminal board. The student can easily understand operation and winding connection. Also most of the accessories and instruments designed in Panel System A4is high in standard. The machines power is approximately a maximum of 400W, as the supply requirement for the system operation requires 240/415V, 60Hz.

PRODUCT MODULES

DC COMPOUND MOTOR	CODE 159-001	SINGLE PHASE SYNCHRONOUS GENERATOR	CODE 159-006	PERMANENT SPLIT CAPACITOR MOTOR	CODE 159-003	THREE PHASE INDUCTION MOTOR	CODE 159-004
Power: 240W Voltage: 240VDC Current: 1A Speed: 1500rpm Excitation Voltage: 240VDC Excitation Current: 0.5A		Power: 250W Voltage: 240VAC Current: 1A Speed: 1400rpm		Power : 250W Voltage: 240VAC Current: 1A Frequency: 50HZ Speed: 1400rpm		Power: 170W Voltage: 415VAC Current: 0.45A Speed: 1500rpm Connection: Δ & Y	
							
THREE PHASE SYNCHRONOUS GENERATOR	CODE 159-005	DC SEPARATELY EXCITED MOTOR	CODE 159-002	AC MEASUREMENT UNIT	CODE 159-007	DC MEASUREMENT UNIT	CODE 159-008
Power: 170W Voltage: 415VAC Current: 0.43A Excitation Voltage: 12VDC Excitation Current: 1.4A Speed: 1500rpm Connection: Y		Power: 240W Voltage: 240VDC Current: 1.0A Excitation Voltage: 240VDC Excitation Current: 1.0A Speed: 1500rpm		Voltmeter range: 0...500VAC Ammeter range: 0...2A Input: AC 240V, 50Hz 1-Phase		Voltmeter range: 0...500VDC Ammeter range: 0...2A Output: 250VDC Input: AC 240V, 50Hz 1-Phase	
							
BULBS	CODE 159-013	THERMAL OVERLOAD RELAY	CODE 159-010	LIMIT SWITCH MODULE	CODE 159-011	SIMULATE SWITCH BOARD	CODE 159-012
Input : AC 240V, 50Hz 1-Phase Incandescent Lamp x 4units		Rated Voltage : 240VAC Rated Current : 2.8A-22A		Rated Voltage : 240VAC Limit Switch x 2units		Rated voltage : 240VAC Push Button x 3 units	
							

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FAULT CURRENT CIRCUIT BREAKER CODE 159-009 Protection Fuse 2A x 3 units Pilot Lamps L1, L2 & L3 Fault Current Circuit Breaker 3Poles Input: AC 415V, 50Hz 3-Phase 	THREE-PHASE CONTACTOR CODE 159-014 Rated Voltage : 415VAC Rated Current : 10A Coil Voltage: 240VAC 3 Each 	RHEOSTAT CODE 159-015 Protection Fuse 2A x 2 units Excitation Resistor: 0~1kΩ Armature Resistor: 0~100Ω 	Y-DELTA TIMER RELAY CODE 159-016 Coil Voltage: 240VAC Contact: NO & NC Time : 0...60seconds 
DC MOTOR CONTROL UNIT CODE 192-004 Output: 0...240VDC Fixed 250VDC Input: AC 240V, 50Hz 1-Phase 	TACHOMETER CODE 192-008 RPM Range: 0...9999rpm Input: AC 240V 	TACHO GENERATOR (OPTIONAL ITEM) CODE 159-017 Speed: 2000rpm Output: Max. 20VDC 	STEPPER MOTOR UNIT (OPTIONAL ITEM) CODE 159-021 Frequency Ranges: 5Hz,50Hz, 100Hz, 500Hz, 1kHz & 5kHz Counter Reset function Direction: CW or CCW 
ROTATE SPEED SENSOR CODE 159-018 Used with DC Motor Control Unit / Tachometer 	U-LINK CODE 159-019 For connecting junction point 	VERTICAL FRAME CODE 297-000 High level : DIN standard A4 with two shelves Material: Aluminium Side Frame: T shape Size: 3-Layer 1450mm Length 	EXPERIMENT MANUAL CODE 159-020 
SAFETY CONNECTING LEAD CODE 237-001 4mm connecting leads 			

EXPERIMENT TOPICS :

- Starting control
- Self-Lock Control
- First connection for contactor (KM)
- Second connection for contactor (KM)
- Third connection for contactor (KM)
- Fourth connection for contactor (KM)
- The working principles of forward and reverse rotation control circuits of switch interconnects
- Forward and reverse rotate control circuits of contactor interconnect (1)
- Forward and reverse rotate control circuits of contactor interconnect (2)
- Auto stop control by travel switch
- The connection of changing star to delta
- Operates the DC Motor & DC Generator
- DC Motor & DC Generator Usage

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
ELECTRICAL MACHINE TRAINER	GOTT-EMT-1543	159-000
TACHO GENERATOR	GOTT-TAGEN-159	159-017
STEPPER MOTOR UNIT	GOTT- STEPPER MOTOR UNIT	159-021

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