



# ELECTRICAL MACHINES TEST A40



This laboratory provides effective training in testing electrical machines by offering complete range of integrated AC and DC units in the 0,3 Kw, 1 Kw, 3 Kw and up to 10 Kw power range. The components can be easily and quickly assembled on a test board that ensures safe coupling and noiseless, vibration free running.

Educational boards with safety terminals and printed electrical diagrams are mounted on each machine.

The accessories, covering all educational needs, are modular and implemented in rugged enclosures that can be optionally mounted on a frame.

They can be used both for individual and for group demonstration purposes.

The components of the laboratory conform to international standards of safety and are mutually compatible in terms of ratings, electrical and mechanical interconnections.

# Equipment List

LAB N°	Item N°	PRODUCT TITLE	PRODUCT CODE	Total Qty	Stud WS 1	Stud WS 2	Stud WS 3	Stud WS 4	Stud WS 5	Stud WS 6	Stud WS 7	Stud WS 8	Teach WS	LAB
<b>6 ELECTRICAL MACHINES TEST LABORATORY</b>														
<b>ELECTRICAL MACHINES TEST (1 Kw POWER)</b>														
			A4M											
			A41MB											
6	1	TRANSFORMERS TESTING BASIC	A0245	4	1				1			1		
6	1	UNIVERSAL POWER SUPPLY	A4110M	4	1			1	1			1		
6	1	SINGLE PHASE TRANSFORMER	A4115M	4	1			1	1			1		
6	1	THREE PHASE TRANSFORMER	A4510M	4	1			1	1			1		
6	1	RESISTIVE LOAD	AM 7080	4	1			1	1			1		
6	1	ANALOGUE MULTIMETER	A4750D	4	1			1	1			1		
6	1	DIGITAL ELECTRIC POWER MEASURING MODULE	A4750D	4	1			1	1			1		
6	1	CABLES SET FOR ELECTRICAL MACHINES	A4890	4	1			1	1			1		
			A42MAB											
6	2	AC ELECTRICAL MACHINES TESTING	A0245	2		1				1				
6	2	UNIVERSAL POWER SUPPLY	A4220M	2		1				1				
6	2	SQUIRREL CAGE MOTOR	A4222M	2		1				1				
6	2	SLIP RING MOTOR	A4223M	2		1				1				
6	2	SYNCHRONOUS MACHINE	A4224M	2		1				1				
6	2	TWO SPEED MOTOR	A4230M	2		1				1				
6	2	SPLIT PHASE MOTOR	A4230ST	2		1				1				
6	2	STARTER FOR SPLIT PHASE MOTOR	A4234M	2		1				1				
6	2	UNIVERSAL MOTOR	A42385	2		1				1				
6	2	SHADED POLES MOTOR	A4430M	2		1				1				
6	2	BRAKE GENERATOR	A4510M	2		1				1				
6	2	RESISTIVE LOAD	A4725	2		1				1				
6	2	TACHOMETER	A4750D	2		1				1				
6	2	DIGITAL ELECTRIC POWER MEASURING MODULE	A4840M	2		1				1				
6	2	TACHOMETER	A4890	2		1				1				
6	2	DIGITAL ELECTRIC POWER MEASURING MODULE	AM 7080	2		1				1				
6	2	ANALOGUE MULTIMETER		2		1				1				
			A42MDB											
6	3	DC ELECTRICAL MACHINES TESTING	A0245	2			1				1			
6	3	UNIVERSAL POWER SUPPLY	A4234M	2			1				1			
6	3	UNIVERSAL MOTOR	A4240M	2			1				1			
6	3	DC COMPOUND EXCITATION MOTOR-GENERATOR	A4242M	2			1				1			
6	3	DC SERIES EXCITATION MOTOR-GENERATOR	A4244M	2			1				1			
6	3	DC SHUNT EXCITATION MOTOR-GENERATOR	A4430M	2			1				1			
6	3	BRAKE GENERATOR	A4510M	2			1				1			
6	3	RESISTIVE LOAD	A4725	2			1				1			
6	3	TACHOMETER	A4750D	2			1				1			
6	3	DIGITAL ELECTRIC POWER MEASURING MODULE	A4840M	2			1				1			
6	3	COUPLING BASE	A4890	2			1				1			
6	3	CABLES SET FOR ELECTRICAL MACHINES	AM 7080	2			1				1			
6	3	ANALOGUE MULTIMETER		2			1				1			
			A41MU											
6	4	TRANSFORMERS TESTING EXPANSION	A4110D	4	1			1	1			1		
6	4	DEMOUNTABLE TRANSFORMER	A4121M	4	1			1	1			1		
6	4	SINGLE PHASE VARIABLE AUTOTRANSFORMER	A4130M	4	1			1	1			1		
6	4	THREE PHASE VARIABLE AUTOTRANSFORMER	A4520M	4	1			1	1			1		
6	4	THREE PHASES PHASE SHIFTER	A4530M	4	1			1	1			1		
6	4	MAGNETIC CIRCUITS TRAINING SET	B4195	4	1			1	1			1		
6	4	CAPACITIVE LOAD		4	1			1	1			1		
6	4	INDUCTIVE LOAD		4	1			1	1			1		
6	4	FRAMEWORK FOR PANELS		4	1			1	1			1		
			A42MAU											
6	5	AC ELECTRICAL MACHINES TESTING EXPANSION	A4230MFS	2		1				1				
6	5	FAULT SIMULATOR FOR SQUIRREL CAGE MOTOR	A4232M	2		1				1				
6	5	RELUCTANCE MOTOR	A4236M	2		1				1				
6	5	REPULSION MOTOR	A4410M	2		1				1				
6	5	POWDER BRAKE	A4410PS	2		1				1				
6	5	POWER SUPPLY FOR POWDER BRAKE	A4420M	2		1				1				
6	5	EDDY CURRENTS BRAKE	A4420PS	2		1				1				
6	5	POWER SUPPLY FOR EDDY CURRENT BRAKE	A4520M	2		1				1				
6	5	CAPACITIVE LOAD	A4530M	2		1				1				
6	5	INDUCTIVE LOAD	A4620M	2		1				1				
6	5	STARTING RHEOSTAT FOR 3PH MOTORS	A4630M	2		1				1				
6	5	EXCITATION RHEOSTAT FOR DC MACHINES	A4720	2		1				1				
6	5	TACHOMETER	A4722	2		1				1				
6	5	OPTICAL TRANSDUCER FOR TACHOMETER	A4730D	2		1				1				
6	5	TORQUE METER	A4731D	2		1				1				
6	5	TRANSDUCER FOR TORQUE METER	A4810	2		1				1				
6	5	PARALLELING BOARD	A4820	2		1				1				
6	5	STAR-DELTA STARTER	A4830	2		1				1				
6	5	COMMUTATOR FOR 2 SPEEDS MOTOR	A4840 RL	2		1				1				
6	5	ROTOR LOCKER	A4885M	2		1				1				
6	5	FLYWHEEL		2		1				1				
6	5	AC MOTOR CONTROL TRAINER (PWM)	C3620 GM	2		1				1				
			A42MDU											
6	6	DC ELECTRICAL MACHINES TESTING EXPANSION	A4246M	2			1				1			
6	6	DC POLYEXCITATION MOTOR-GENERATOR	A4430M	2			1				1			
6	6	DC PERMANENT MAGNETS MOTOR	A4410M	2			1				1			
6	6	POWDER BRAKE	A4410PS	2			1				1			
6	6	POWER SUPPLY FOR POWDER BRAKE	A4420M	2			1				1			
6	6	EDDY CURRENTS BRAKE	A4420PS	2			1				1			
6	6	POWER SUPPLY FOR EDDY CURRENT BRAKE	A4610M	2			1				1			
6	6	STARTING RHEOSTAT FOR DC MOTORS	A4630M	2			1				1			
6	6	EXCITATION RHEOSTAT FOR DC MACHINES	A4720	2			1				1			
6	6	TACHOMETER	A4722	2			1				1			
6	6	OPTICAL TRANSDUCER FOR TACHOMETER	A4730D	2			1				1			
6	6	TORQUE METER	A4731D	2			1				1			
6	6	TRANSDUCER FOR TORQUE METER	A4840 RL	2			1				1			
6	6	ROTOR LOCKER	A4885M	2			1				1			
6	6	FLYWHEEL	B3610	2			1				1			
6	6	DC MOTOR CONTROL TRAINER (PWM)		2			1				1			
			A4783											
6	7	DATA ACQUISITION SYSTEM FOR ELECTRICAL MACHINES	A4783AC	2										2
6	7	PC BASED DATA ACQUISITION SYSTEM FOR AC MACHINES	A4783DC	2										2
			A42											
6	8	SET OF CUT-AWAY ELECTRICAL MACHINES	A4220C	1										1
6	8	SQUIRREL CAGE MOTOR - CUTAWAY VERSION	A4222C	1										1
6	8	SLIP RING MOTOR - CUTAWAY VERSION	A4223C	1										1
6	8	SYNCHRONOUS MACHINE - CUTAWAY VERSION	A4244C	1										1
6	8	DC MACHINE - CUTAWAY VERSION		1										1
<b>FURNITURE, METERS, POWER SUPPLIES &amp; ACCESSORIES.</b>														
<b>FURNITURE</b>														
FM	1	1 WORK TABLE	F1110A	8	1	1	1	1	1	1	1	1		
FM	1	2 MOBILE LOWER CABINET	F11 4346	8	1	1	1	1	1	1	1	1		
FM	1	3 STUDENT STOOL	F11 1318	24	3	3	3	3	3	3	3	3		
FM	1	4 TEACHER'S DESK	F11 2126	1										1
FM	1	5 TEACHER'S CHAIR	F11 5000	1										1
FM	1	6 CABINET FOR TOOLS & INSTRUMENTS	F11 3310	4										4
FM	1	7 TROLLEY	F1151 R1	4										4
FM														