

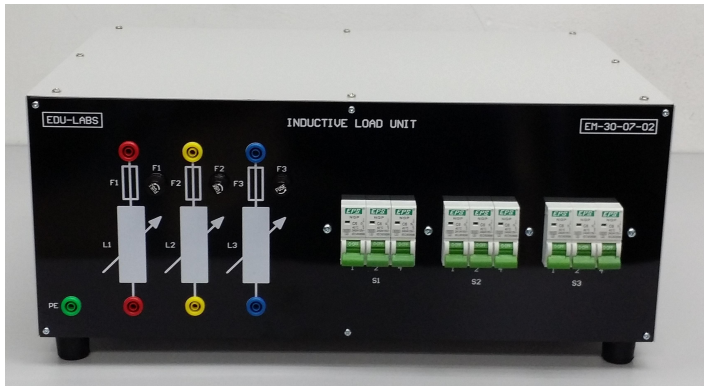
INDUCTIVE LOAD UNIT

EM-30-07-02 (300VAR)

EDU-LABS



This series of Inductive Loads is designed to be used with all AC/DC Generators, Machines and Three Phase Transformer in a training environment. For this purpose the units are enclosed in metal housings and provided with Educational Terminal Boards with 4 mm safety terminals socket and clear synoptic showing the feasible connections. The units are also provided with a reference manual which illustrates their use and typical experiments.



Single-Three phase Inductive Load 7 steps variable per phase

- Max Power : 3x100 VAR
- Voltage : 240/415 Volt
- Frequency : 50Hz
- Protection : Fuse

MAIN CHARACTERISTICS

- Can be connected in Series, Parallel, Star and Delta configurations.
- Can be connected to AC Single and 3 Phase sources.
- Controlled by 3 x 3 circuit breaker switches for 7 steps selection.

TESTING DATA TABLE

At Voltage 240 Volt / Phase, 300 VARs (Max Power 3 x 100 VARs)

No	Positions			Inductance (H) S1	Inductance (H) S2	Inductance (H) S3	Power Absorbed (VARs)
	SW1	SW2	SW3				
0	OFF	OFF	OFF				-
1	OFF	OFF	ON	12.65	12.38	12.46	18.30
2	OFF	ON	OFF	5.59	5.43	5.71	36.70
3	OFF	ON	ON	3.86	3.76	3.90	55.00
4	ON	OFF	OFF	3.11	3.18	3.19	73.30
5	ON	OFF	ON	2.49	2.62	2.54	91.70
6	ON	ON	OFF	1.98	2.05	2.03	110.00
7	ON	ON	ON	1.71	1.75	1.74	128.40

No	Positions			Current (A) S1	Current (A) S2	Current (A) S3	Power Absorbed (VARS)
	SW1	SW2	SW3				
0	OFF	OFF	OFF				-
1	OFF	OFF	ON	0.06	0.06	0.06	18.30
2	OFF	ON	OFF	0.10	0.09	0.09	36.70
3	OFF	ON	ON	0.16	0.16	0.15	55.00
4	ON	OFF	OFF	0.22	0.18	0.18	73.30
5	ON	OFF	ON	0.27	0.24	0.25	91.70
6	ON	ON	OFF	0.32	0.28	0.26	110.00
7	ON	ON	ON	0.38	0.34	0.35	128.40

EXPERIMENTS COVER

EXPERIMENT 1: BALANCED THREE-PHASE LOADS

Experiment 1.1: Star connection with balance resistive load
 Experiment 1.2: Delta connection with balance resistive load

EXPERIMENT 2: UNBALANCED THREE-PHASE LOADS

Experiment 2.1: Star connection with unbalance three-wire resistive load
 Experiment 2.2: Star connection with unbalance four-wire resistive load
 Experiment 2.3: Delta connection with unbalance resistive load

EXPERIMENT 3: BALANCED THREE-PHASE RL LOADS

Experiment 3.1: Star-Connected with series R-L Load
 Experiment 3.2: Delta-Connected with series R-L Load

EXPERIMENT 4: BALANCED THREE-PHASE RC LOADS

Experiment 4.1: Star-Connected with series R-C Load
 Experiment 4.2: Delta-Connected with series R-C Load

EXPERIMENT 5: BALANCED THREE-PHASE RLC (SERIES) LOADS

Experiment 5.1: Star-Connected with series R-L-C Load
 Experiment 5.2: Delta-Connected with series R-L-C Load

EXPERIMENT 6: BALANCED THREE-PHASE RLC (PARALLEL) LOADS

Experiment 6.1: Star-Connected with parallel R-L-C Load
 Experiment 6.2: Delta-Connected with parallel R-L-C Load

Note: Specification May Change Without Prior Notice For Products Continuous Development Process.