



STANDARD INSTRUCTION BOOKS AND LEAFLETS

LISTED ALPHABETICALLY • NUMERICALLY • BY CLASS NUMBERS

index

040

page 1

CONTENTS. This Index consists of three parts as follows: (1) Alphabetical Index, pages 2-3; (2) Apparatus Class Number Index, pages 4-36; and (3) Numerical Index, pages 37-44.

The Index lists standard instruction books and leaflets that are available according to records of the Printing and Publications Division. New and revised publications issued subsequent to the date of this Index will appear in Supplement to Index 040. Requests for instructions covering special apparatus should be referred to the divisions responsible.

DESCRIPTION. The standard instruction books and leaflets, as listed herein, are prepared for apparatus manufactured to standard designs for general applications. Such literature is usually printed and stocked in limited quantities. All books and leaflets are size 8-3/8 x 10-7/8 and, in most cases, have the standard 3-hole punching for inserting into binders.

Publication numbers of the books and leaflets (except in a few cases) carry "I.B." and "I.L." prefixes, respectively. Revisions and indicated by "sub" letters A, B, C, etc., following the number.

FILING. Standard instruction literature may be filed according to apparatus class numbers in the same manner as Descriptive Bulletins, Catalog Sections, Price Lists, etc. To facilitate this method of filing, the publication numbers in this Index are listed under their respective class numbers.

STOCK. Standard instruction books and leaflets, in most cases, are printed in sufficient quantities to permit an initial distribution over the Standard Instruction Data Mailing List. However, the main stock of such literature is carried either at Trafford or at the operating divisions involved. This is indicated by the code letters in the Index. The specific locations and departments where the books and leaflets may be ordered are shown opposite the code letters in the table below.

ORDERING. (Refer to Table of Main Stock Locations below). Instruction publications stocked at Trafford should be ordered on Requisition for Trafford Stock Items, Form 17002. Books stocked "with covers" and "without covers", and leaflets stocked "with envelopes" and "without envelopes" must be specified accordingly on the requisition.

Instruction publications stocked in the divisions should be ordered directly from the departments indicated in the table below. Requisition Form 17002 may be used for ordering, except for items stocked at Cleveland, which should be ordered on Interworks Requisition, Form 17006.

IMPORTANT: When ordering, be sure that all publication numbers are correctly written and include the proper prefixes and "sub" letters (if any). Do not order literature that is not specifically needed. As the stocks of all instruction publications are somewhat limited, it is requested that quantities be held to minimum requirements.

TABLE OF MAIN STOCK LOCATIONS

CODE LETTERS	PLANT	DIVISION	DEPARTMENT
BE	Beaver	Standard Control	Stationery
BU	Buffalo	Motor, Welding, Industrial Control	Stationery Storeroom
CL	Cleveland	Lighting	Order Service
VI	Vicksburg	Lighting	Stationery Storeroom
EM	Emeryville	M & R	Electric Heating for Homes
NA	Newark	Meter	Stationery
RA	Raleigh	Meter	Stationery
SH	Sharon	Transformer	Stationery Storeroom
TP	Trafford	Printing & Publications	Stationery



**Product Cross-Reference to Apparatus Class Numbers and Pages
Where Respective Instruction Literature is Listed**

PRODUCT	APPARATUS CLASS NO.	PAGE	PRODUCT	APPARATUS CLASS NO.	PAGE
A			C—Continued		
Ammeters	{ 41-000 43-000		Machine Tool	7000-8499	
Arc Welding Equipment.	26-000		Marine and Navy	3810	
Auto-Starters and Auto- Transformers	10-000		Motor.	2000	
B			Rubber Mill.	14-000	
Battery Chargers, Rectox	19-000		Steel Mill	8500-9500	
Boosters, Feeder Voltage	47-000		Converters		
Brakes, Motor.	15-300		Frequency	335	
Bushings, Condenser.	33-000		Synchronous	300	
(See Transformer Classes for Transformer Bushings).			Cutouts, Fuse	38-600	
C			D		
Capacitors	49-000		Drives		
Carrier, Relay, Telemetering, Load Control	41-000		Adjustable Speed, A-C	3500	
Circuit Breakers and Operating Mechanisms			AV Adjustable Speed Drives	4900	
High-Voltage Air Breakers, Horizontal Drawout	32-000		Electronic Motor, Mot-O-Trol	18-000	
High-Voltage Power Breakers, Air and Oil	33-000		Gear, High-Speed	3700	
Low-Voltage Air Breakers	35-000		F		
Unit Air Breakers, Types AB, AQB and NQB	29-000		Fuses	36-000	
Condensers			G		
Air-Cooled Synchronous	330		Gearmotors	3600	
Hydrogen-Cooled Synchronous.	331		Generators		
Contactors	15-800		A-C	4500	
Marine and Navy.	3810		Air-Cooled Turbine	370	
Control			D-C	{ 3500 4600	
A-C Squirrel-Cage Motor, Magnetic	11-000		Hydrogen-Cooled Turbine.	300	
A-C Squirrel-Cage Motor, Manual	10-000		Marine and Navy	3810	
A-C Synchronous Motor	14-000		Tachometer	43-000	
A-C Wound Rotor Motor, Magnetic	13-000		Vertical Waterwheel	310	
A-C Wound Rotor Motor, Manual	12-000		Ground Detectors	43-000	
D-C Motor, Magnetic	8500-9500		H		
D-C Motor, Manual.	7000-8499		Heating for Homes, Electric	27-000	
Electronic	18-000		Heating, Industrial	28-000	
Marine and Navy	3810		Hipersil Cores	44-000	
Metal Planer	3820		I		
Resistance Welding	18-900		Indicators, Phase, Tempera- ture and Position	43-000	
Weldomatic	26-000		Induction Frequency Changers	4700	
Controllers			Instruments, Portable, Panel, Recording, Switchboard and Miscellaneous	43-000	
Drum	12-000		Insulating Fluid, Inerteen	44-500	
Electronic	18-000		Insulating Oil, Wemco C	44-500	



ALPHABETICAL INDEX

PRODUCT	APPARATUS CLASS NO.	PAGE	PRODUCT	APPARATUS CLASS NO.	PAGE
I—Continued			R		
Interlocks, Electrical	15-800		Reactors, Current Limiting. . .	47-500	
Marine and Navy.	3810		Reclosers	{33-000 38-600	
L			Rectifiers, Ignitron		
Lighting			Cooling Systems	368	
Airport.	60-900		Excitation Circuits		
Commercial, Industrial			and Devices	367	
and Flood.	61-000		Miscellaneous	369	
Marine	60-700		Vacuum Systems and Devices.	366	
Street	60-000		Rectifiers, Metallic.	19-000	
Lightning Arresters.	38-000		Regulators		
Linestarters	11-000		Arc Furnace Current	31-000	
Marine and Navy	3810		Constant Current.	{31-000 60-000	
Luminaires	61-000		Feeder Voltage.	47-000	
M			Generator Voltage	{18-000 31-000	
Meters, Demand, Watthour			Liquid Slip	13-000	
and Miscellaneous	42-000		Register.	18-000	
Motors			Relays		
A-C Single-Phase	3000		Industrial Control.	15-800	
A-C Squirrel-Cage.	3100		Marine and Navy	3810	
A-C Synchronous	3400		Protective, Carrier and		
A-C Wound Rotor.	3200		Load Control	41-000	
D-C Type SK	3500		Resistors		
Marine and Navy.	3810		Control	14-500	
Pump-Vertical Hollow Shaft .	3830		Marine and Navy	3810	
Textile Mill	3880		Rheostats		
Thermoguard	5000		Control	14-500	
Motors and Control			Starting and Speed	{7000-8499	
Crane and Hoist.	3800		Regulating	12-000	
Industrial	2000		S		
Machine Tool	3820		Sectionalizers	38-600	
Marine and Navy	3810		Speed Reducers	3700	
Motor-Generator Sets	4700		Steam Apparatus	1000	
Motor Starters			Surge Protective Apparatus. .	38-000	
D-C Mill and Mine.	8500-9500		Switchboards	31-000	
Magnetic	{11-000 13-000		Switches and Operating		
Marine and Navy	3810		Mechanisms		
Roving Frame	11-000		Crane Protective.	7000-8499	
Motor Watchman	{5000 10-000		Disconnecting	36-000	
N			Drum.	10-000	
Network Protectors	35-500		Float	15-000	
O			Limit	15-000	
Ohmmeters.	43-000		Marine and Navy	3810	
Oscillographs.	43-000		Master	15-000	
P			Oil	{33-000 38-600	
Photo-Electric Equipment . . .	18-000		Pressure Governor	15-000	
Pushbuttons and Pilot Control.	15-000		Starting, Drum.	8500-9500	
			Switchboard Test	37-000	
			Time.	42-000	
			Switchgear, Metal-Enclosed		
			and Metal-Clad	32-000	
			Synchronizers, Automatic. . .	31-000	
			T		
			Telemetering Equipment. . . .	41-000	



APPARATUS CLASS NUMBER INDEX

page 4

PRODUCT	APPARATUS CLASS NO.	PAGE	PRODUCT	APPARATUS CLASS NO.	PAGE
T—Continued			T—Continued		
Timestarters	8500-9500		Transformer Accessories . . .	46-700	
Marine and Navy	3810		(Breathers, Condenser		
Timetactors	15-800		Bushings, Cooling Equip-		
Transformers			ment, DynAC Brakes,		
Auxiliary Current	41-000		Gaskets, Gauges, Indica-		
CSP Power	48-000		tors, Line-Drop Compens-		
Current	45-000		sators, Relays, Relief		
Distribution	46-000		Devices, Switches, Tap-		
Dry Type Distribution—			Changing Equipment, etc.)		
600 volts and below . . .	44-500		Transformer Equipments . . .	48-000	
Dry Type Distribution—			Tubes, Protector	38-000	
Above 600 volts	46-000				
Grounding	47-500		U		
Inerteen	48-000		Unit Substations	48-000	
Instrument	45-000				
Instrument, Portable . . .	43-000		V		
Network	48-000		Voltmeters	{41-000	
Potential	45-000			{43-000	
Power	47-500				
Precipitation	44-500				



APPARATUS CLASS NUMBER INDEX

Instruction Literature Listed Under
Respective Apparatus Class Numbers

CLASS NO.	PUBLICATION NUMBER	DESCRIPTION	APPARATUS DIVISION	MAIN STOCK LOCATION
300 - GENERATING AND CONVERTING EQUIPMENT (Large)				
	I.L. 4157-A	Packing Joints of Hydrogen-Cooled Machines, Process Specification No. 290518-D	P A D	TP
	I.B. 5133-H	Synchronous Converters	P A D	TP
310 - A-C WATERWHEEL GENERATORS				
	I.B. 7240-A	Vertical Waterwheel Synchronous Generators	P A D	TP
330 - AIR-COOLED SYNCHRONOUS CONDENSERS				
	I.B. 7219	Air-Cooled Synchronous Condensers	P A D	TP
331 - HYDROGEN-COOLED CONDENSERS				
	I.B. 7241	Hydrogen-Cooled Synchronous Condensers, 10,000 to 100,000 Kva	P A D	TP
335 - SYNCHRONOUS FREQUENCY CONVERTERS				
	I.B. 5412	Frequency Converters	P A D	TP
366 - IGNITRON RECTIFIERS (Vacuum Systems and Devices)				
	I.L. 366-1	Three-Way Bellows Valve, Style No. 1296 026	P A D	TP
	I.L. 366-2	Rotary Oil-Sealed Vacuum Pump	P A D	TP
	I.L. 366-3	Three-Stage Mercury Vapor Vacuum Pump	P A D	TP
	I.L. 366-4	Hand-Operated Bellows Type Vacuum Valve	P A D	TP
	I.L. 366-5	Vacuum Pumping System for Mercury Arc Rectifiers	P A D	TP
	I.L. 366-6	Pressure Indicating Manometer	P A D	TP
	I.L. 366-7	Hot Wire Vacuum Gauge	P A D	TP
	I.L. 366-8-A	McLeod Vacuum Gauge	P A D	TP
	I.L. 366-9	Interstage Reservoir and Barometric Seal	P A D	TP
	I.L. 2203-A	Two-Stage Mercury Vapor Vacuum Pump	P A D	TP
	I.L. 4232	4-Inch and 12-Inch Hand-Operated Bellows Type Vacuum Valves	P A D	TP
367 - IGNITRON RECTIFIERS (Excitation Circuits and Devices)				
	I.L. 367-1	Reactor Excitation Circuit, 60 Cycle 40 Microfarad, 360 Volt	P A D	TP
	I.L. 367-2	50-630-N-60 Excitation Circuit	P A D	TP
	I.L. 367-3	40-520-N-60 Excitation Circuit	P A D	TP
	I.L. 367-4	Voltage Control of an Ignitron Rectifier	P A D	TP
	I.L. 367-5	40-500-N-60 Excitation Circuit	P A D	TP
	I.L. 367-6	110-400-N-25 Excitation Circuit	P A D	TP

APPARATUS CLASS NUMBER INDEX



CLASS NO.	PUBLICATION NUMBER	DESCRIPTION	APPARATUS DIVISION	MAIN STOCK LOCATION
367 - IGNITRON RECTIFIERS (Excitation Circuits and Devices) - Continued				
I.L. 367-7	40-670-N-60	Excitation Circuit	P A D	TP
I.L. 367-8	40-70-N-50	Excitation Circuit	P A D	TP
I.L. 4535-B		Excitation Circuit, 40-630-N-50	P A D	TP
368 - IGNITRON RECTIFIERS (Cooling Systems)				
I.L. 368-1A		Mercury Arc Rectifier Cooling System using the Water-to-Air Heat Exchanger	P A D	TP
I.L. 368-2		Instructions for Test of Rectifier Cooling Water Solution	P A D	TP
I.L. 368-3A		Mercury Arc Rectifier Cooling System using Recirculating Water System	P A D	TP
I.L. 368-4A		Mercury Arc Rectifier Cooling System using Direct Series Water System	P A D	TP
I.L. 368-5A		Mercury Arc Rectifier Cooling System using Water-to-Water Heat Exchanger	P A D	TP
369 - IGNITRON RECTIFIERS (Miscellaneous)				
I.L. 369-1		Degassing Procedure for Ignitron Mercury Arc Rectifiers	P A D	TP
I.L. 369-2		Oscilloscope Connections for Testing Rectifier	P A D	TP
I.L. 4145		Arc-Back Indicating Panel	P A D	TP
I.L. 4444		Arc-Back Indicators, Style Nos. 1404 206, 1404 207, 1404 208 and 1404 209	P A D	TP
370 - AIR-COOLED TURBINE GENERATORS				
I.B. 7890		Turbine Generators, Air Cooled, 2,000/7,500 Kw., 80 PF	P A D	TP
I.B. 7891		Turbine Generators, Air Cooled, 10,000/11,500 Kw., 80 or 85 PF	P A D	TP
I.B. 7892		Turbine Generators, Air Cooled, 15,625 Kva., 80 PF	P A D	TP
1000 - STEAM APPARATUS				
I.B. 5683-B		Steam Jet Vacuum Cooling Units	Steam	TP
2000 - INDUSTRIAL MOTORS AND CONTROL				
I.L. 1477-D		Controllers, General Instructions	Industrial Control	TP
I.L. 3287		Oiling Instructions for Oil Ring Lubricated Roller Bearing Motors	Motor	TP
I.L. 3307-A		Oiling Instructions for Oil Ring Lubricated Ball Bearing Motors	Motor	TP
I.L. 3872-A		NEMA Industrial Control Standard Device Markings	Industrial Control	TP
I.L. 3873-A		Fundamental Electrical Symbols	Industrial Control	TP
I.L. 4330		Motor Controllers, Storage and Handling	Industrial Control	TP
I.L. 4332		Motor Controllers, Unpacking	Industrial Control	TP
3000 - A-C SINGLE-PHASE MOTORS				
I.L. 1876-E		Single-Phase Repulsion Induction Motor with Oil-Lubricated Sealed Sleeve Bearings, Type CU, Frames 254 and 284	Motor	TP
I.L. 3000-CRP-1		Single-Phase Motors, Types CRP and CUP, Frames 203 through 225	Motor	TP



APPARATUS CLASS NUMBER INDEX

CLASS NO.	PUBLICATION NUMBER	DESCRIPTION	APPARATUS DIVISION	MAIN STOCK LOCATION
3000 - A-C SINGLE-PHASE MOTORS - Continued				
I.L. 3000-1-CAP-1B	Single-Phase Life-Line Motors, Open, Drip-Proof, Types CAP and CAP-2, ½ to 10 Hp, Frames 203 through 326	Motor	TP	
I.L. 3000-2	Single-Phase Life-Line Motors, Type A, Frames 182 through 326U with Pre-lubricated Ball Bearings	Motor	TP	
3100 - A-C SQUIRREL-CAGE MOTORS				
Note: Other instructions applying to Class 3100 are listed under Class 3400.				
I.L. 1881-K	Induction Motors, Type CS Squirrel-Cage, Types CW and CI Wound Rotor, Frames W-254 through 800	Motor	TP	
I.L. 3100-CSP-1A	Types CSP, CWP and CIP Motors, Frames 203 to 225	Motor	TP	
I.L. 3100-1-CSP-1C	Squirrel-Cage, Life-Line Motors, Drip-Proof, Type CSP, 1 to 20 Hp, Frames 203 through 326	Motor	TP	
I.L. 3100-1A-CSP-1	Squirrel-Cage Life-Line Motors, Drip-Proof Type CSP, 20 to 100 Hp, Frames 364 through 445	Motor	TP	
I.L. 3100-2A	Squirrel-Cage Life-Line Motors, Splash and Drip-Proof, Type CSP, Frames 580 through 683	Motor	TP	
I.L. 3100-3-CSP-1D	Squirrel-Cage Life-Line Motors, Totally Enclosed, Fan-Cooled, Type CSP, 2 to 20 Hp, Frames 224 through 326	Motor	TP	
I.L. 3100-4	Squirrel-Cage Type A Life-Line Motors, Drip-Proof, T.E.N.V. & T.E.F.C. 182 through 326 Frames	Motor	TP	
I.L. 3100-5	Squirrel-Cage Type A Life-Line Motors, Explosion-Proof (ABEP) 182 through 326 Frames	Motor	TP	
I.L. 3100-6	Type CSP Squirrel-Cage and Type CWP or CIP Fan-Cooled and Explosion-Proof Wound Rotor Life-Line Motors, Frames 364 through 445 with Prelubricated Ball Bearings	Motor	TP	
I.L. 3100-7	Type A Squirrel-Cage Life-Line Motors, Frames 364-U through 445-U	Motor	TP	
I.L. 3100-9-CSP-1D	Squirrel-Cage Life-Line Motors, Splash-Proof, Type CSP, 1 to 20 Hp, Frames 203 through 326	Motor	TP	
I.L. 3100-11	Life-Line Motors, Overhung Frame Mtd., Drip-proof Type CSP Squirrel Cage & GP Sync. (Frames 580 through 683)	Motor	TP	
I.L. 3100-12A	Squirrel Cage Induction Motors Type CS (T.E.F.C.) Frames 364 to 8120	Motor	TP	

3200 - A-C WOUND ROTOR MOTORS

Note: Other instructions applying to Class 3200 are listed under Classes 3100 and 3400.

I.L. 1933-B	Polyphase Motors, Types CS and CW, Frames 202 through 225	Motor	TP
I.L. 3200-1	Wound Rotor Life-Line Motors, Drip-Proof, Types CWP and CIP, Frames 364 through 507 with Ball Bearings	Motor	TP
I.L. 3200-2A	Wound Rotor Life-Line Motors, Drip-Proof, Splash-Proof Type CWP Frame 580 through 683, Sleeve and Ball Bearings	Motor	TP

STANDARD INSTRUCTION BOOKS AND LEAFLETS



APPARATUS CLASS NUMBER INDEX

CLASS NO.	PUBLICATION NUMBER	DESCRIPTION	APPARATUS DIVISION	MAIN STOCK LOCATION
3400 - A-C SYNCHRONOUS MOTORS				
	I.B. 1300-FA-1	FA Motors Induction and Synchronous Types	P A D	TP
	I.B. 7099-A	Large Synchronous and Induction Motors	P A D	TP
3500 - D-C MOTORS				
Note: Other instructions applying to Class 3500 are listed under Class 4600.				
	I.L. 1364-E	Motors and Generators, Sleeve Bearing D-c, Type SK	Motor	TP
	I.L. 1697-G	Motors and Generators, Ball Bearing D-c, Type SK	Motor	TP
	I.L. 3500-1-SK-1A	D-c Life-Line Motors and Generators, Type SK, 5 to 30 Hp, 3 to 25 Kw, Frames 254 through 365	Motor	TP
	I.L. 3500-1-SK-2A	D-c Life-Line Motors and Generators, Type SK, ½ to 3 Hp, ½ to 2 Kw, Frames 203 through 225	Motor	TP
	I.L. 3500-4	D-c Life-Line Motors and Generators, Type SK, 5 to 30 Hp, 3 to 25 Kw, Frames 254 through 365 with Sleeve Bearings	Motor	TP
	I.L. 3500-5-SK-1A	Life-Line H Motors and Generators, Type SK-H, 5 to 150 Hp., 3 to 100 Kw., Frames 254-A through 505-A, Ball Bearing	Motor	TP
	I.L. 3500-6-SK-1A	Life-Line H Motors and Generators, Type SK-H, ½ to 3 Kw; Frames 187A through 218A, with Ball Bearings	Motor	TP
	I.L. 3882-E	A-c Adjustable Speed Drive	Motor	TP
3600 - GEARMOTORS				
	*I.B. 3600-1B	Gearmotors, Horizontal Type	Gearing	TP
	I.L. 7460	Recommended Lubricants for Gearmotors, Speed Reducers and High Speed Gear Drives	Gearing	TP
3700 - SPEED REDUCERS AND HIGH-SPEED GEAR DRIVES				
Note: Other instructions applying to Class 3700 are listed under Class 3600.				
	I.B. 3700-SR-1A	Speed Reducers, Horizontal-Parallel Shaft	Gearing	TP
	I.B. 3700-SU-1A	High-Speed Gear Drives, Type SU	Gearing	TP
3800 - CRANE, HOIST, MILL, SHOVEL, MOTORS AND CONTROL				
Note: Other instructions applying to Class 3800 are listed under Classes 7000-8499 and 8500-9500.				
	I.L. 1985-C	Types K and KG Motors	Motor	TP
	I.L. 3800-1	Type MC, 7½ to 275 Hp, Direct-Current Mill Motors, Series 600-Silicone Insulated	Motor	TP
3810 - MARINE AND NAVY MOTORS AND CONTROL				
	I.L. 3810-1A	Squirrel-Cage Life-Line Motors, Type CSP for Navy Service, Frames 203 through 326	Motor	TP
	I.L. 3810-2A	Type CSP Life-Line Motors for Navy Service, Frames 364 through 505, Prelubricated Ball Bearings	Motor	TP
	I.L. 3810-100	D-C Magnetic Relays, Type HIN, Navy Service A, Voltage or Current Responsive Relays	Industrial Control	TP



APPARATUS CLASS NUMBER INDEX

CLASS NO.	PUBLICATION NUMBER	DESCRIPTION	APPARATUS DIVISION	MAIN STOCK LOCATION
3810 - MARINE AND NAVY MOTORS AND CONTROL - Continued				
I.L. 3810-101A		D-c Overload and Jamming Relays, Type IAYJ, Single Pole, Normally Closed	Industrial Control	TP
I.L. 3905-A		Direct-Current Marine Motor, Types CK and UW	Motor	TP
I.L. 6000-1		Navy Service A, Electrical Controller, Components and Controllers	Industrial Control	TP
I.L. 6000-80-C-12-1		Navy Service A, D-c Magnetic Contactor, Type C	Industrial Control	TP
I.L. 6000-201/202-NSM-1		Navy Service A, D-c Magnetic Contactors, Type NSM, Sizes 3 and 4	Industrial Control	TP
I.L. 6000-204-NSM-1		Navy Service A, D-c Magnetic Contactor, Type NSM, Size 5	Industrial Control	TP
I.L. 6000-241/242-NSM-1		Navy Service A, D-c Magnetic Contactors, Type NSM, Sizes 3 and 4	Industrial Control	TP
I.L. 6000-ADN-1		Navy Service A, A-c or D-c Accelerating Switch, Type ADN, Sizes 5 and 6	Industrial Control	TP
I.L. 6000-HIN-1		Navy Service A, A-c Phase Balance Relay, Type HIN	Industrial Control	TP
I.L. 6000-HSN-1		Navy Service A, A-c or D-c Limit Switch, Type HSN	Industrial Control	TP
I.L. 6000-IAQ-1		Navy Service A, D-c Magnetic Timetactor, Type IAQ, Size 4	Industrial Control	TP
I.L. 6000-IAQZ-1		Navy Service A, D-c Magnetic Timetactor, Type IAQZ, Size 4	Industrial Control	TP
I.L. 6000-IDN #00-1		Navy Service A, A-c Auxiliary Magnetic Relays, Type IDN, Size 00	Industrial Control	TP
I.L. 6000-IDN #0/1-1B		Navy Service A, A-c Magnetic Contactors, Type IDN, Size 1	Standard Control	TP
I.L. 6000-IDN #2/3-1		Navy Service A, A-c Magnetic Contactors, Type IDN, Sizes 2 and 3	Standard Control	TP
I.L. 6000-IFN-1		Navy Service A, A-c Timing Relay, Type IFN	Industrial Control	TP
I.L. 6000-IFN #4/5/6-1A		Navy Service A, A-c Magnetic Contactors, Type IFN, Sizes 4, 5 and 61A	Industrial Control	TP
I.L. 6000-IG-1		Navy Service A, A-c or D-c Limit Switch, Type IG	Industrial Control	TP
I.L. 6000-IM #0.1		Navy Service A, D-c Auxiliary Magnetic Relays, Type IM, Size 0	Industrial Control	TP
I.L. 6000-IM #1/2/3/4-1		Navy Service A, D-c Magnetic Contactors, Type IM, Sizes 1, 2, 3 and 4	Industrial Control	TP
I.L. 6000-L39-1		Navy Service A, Electrical Interlock, Type L-39	Industrial Control	TP
I.L. 6000-MI-1B		Navy Service A, A-c or D-c Overload Relay, Type MI	Standard Control	BE
I.L. 6000-NDH,NDHE-1		Navy Service A, A-c or D-c Limit Switch, Types NDH and NDHE	Industrial Control	TP
I.L. 6000-PLN-1		Navy Service A, A-c or D-c Float Switch, Type PLN	Industrial Control	TP
I.L. 6000-Resistors-1		Navy Service A, A-c or D-c Resistors, Types HM, WM, TM, D, BAR and WX	Industrial Control	TP
I.L. 6000-SM-1		Navy Service A, A-c or D-c Master Switches, Type SM	Industrial Control	TP
I.L. 6000-SMP-1		Navy Service A, A-c or D-c Master Switches, Type SMP	Industrial Control	TP
I.L. 6100-1		Marine Service, Electrical Controller, Components and Controllers	Industrial Control	TP
I.L. 6100-62F5/65F5-1		Marine Service, A-c Magnetic Contactors, Type F, Size 5	Industrial Control	TP
I.L. 6100-201/202/204 SM-1		Marine Service, D-c Magnetic Contactors, Type SM, Sizes 3, 4 and 5	Industrial Control	TP

STANDARD INSTRUCTION BOOKS AND LEAFLETS



APPARATUS CLASS NUMBER INDEX

CLASS NO.	PUBLICATION NUMBER	DESCRIPTION	APPARATUS DIVISION	MAIN STOCK LOCATION
3810 - MARINE AND NAVY MOTORS AND CONTROL - Continued				
I.L. 6100-241/242 SM-1		Marine Service, D-c Magnetic Contactors, Type SM, Sizes 3 and 4 . . .	Industrial Control	TP
I.L. 6100-AQ-1		Marine Service, D-c Magnetic Time-tactors, Type AQ, Sizes 2, 4 and 5 . . .	Industrial Control	TP
I.L. 6100-AQZ-1		Marine Service, D-c Magnetic Time-tactors, Type AQZ, Sizes 2 and 4 . . .	Industrial Control	TP
I.L. 6100-HI-1		Marine Service, D-c Magnetic Relays, Type HI	Industrial Control	TP
I.L. 6100-L46-1A		Marine Service, Electrical Interlock, Type L-46	Industrial Control	TP
I.L. 6100-L47-1		Marine Service, Electrical Interlock, Type L-47	Industrial Control	TP
I.L. 6100-M-010/110/210-1		Marine Service, D-c Magnetic Contactors, Type M, Sizes 0, 1 and 2 . . .	Industrial Control	TP
I.L. 6100-M-011/111/211-1		Marine Service, D-c Magnetic Contactors, Type M, Sizes 0, 1 and 2 . . .	Industrial Control	TP
I.L. 6100-M-020/120/220-1		Marine Service, D-c Magnetic Contactors, Type M, Sizes 0, 1 and 2 . . .	Industrial Control	TP
I.L. 6100-SMP-1		Marine Service, A-c or D-c Master Switches, Type SMP	Industrial Control	TP
I.L. 6100-TI-2-1		Marine Service, D-c Overload Relay, Type TI-2	Industrial Control	TP
I.L. 6310-1		Navy Service A, D-c Non-Reversing Starters, Class 6310, Sizes 0, 1, 2, 3, 4 and 5	Industrial Control	TP
I.L. 6550-1		Marine Service, A-c Non-Reversing Linestarters, Class 6550, Sizes 3, 4 and 5	Industrial Control	TP
I.L. 6555-1		Marine Service, A-c Reversing Line-starters, Class 6555, Sizes 3, 4 and 5	Industrial Control	TP
I.L. 6565-1		Marine Service, A-c Multi-Speed Linestarters, Class 6565, Sizes 3, 4 and 5	Industrial Control	TP
I.L. 6850-1B		Navy Service A, A-c Non-Reversing Linestarters, Class 6850, Sizes 1, 2, 3, 4 and 5	Industrial Control	TP
I.L. 6855-1		Navy Service A, A-c Reversing Linestarters, Class 6855, Sizes 1, 2, 3, 4 and 5	Industrial Control	TP
I.L. 6865-1		Navy Service A, A-c Multi-Speed Linestarters, Class 6865, Sizes 1, 2, 3, 4 and 5	Industrial Control	TP
I.L. 8590-A-1		Marine Service, D-c Magnetic Controllers, Type SM, Class 8590-A . . .	Industrial Control	TP
I.L. 8591-C-1		Marine Service, D-c Magnetic Controllers, Type SM, Class 8591-C . . .	Industrial Control	TP
I.B. 8591-CPL-2		Motor, Brake and Control for Capstan . . .	Industrial Control	TP
I.L. 11006		Marine Service, A-c Non-Reversing Linestarters, Class 6550, Type N, Sizes 1, 2, 3, 4 and 5	Industrial and Standard Control	TP
I.L. 11007		Marine Service, A-c Reversing Line-starters, Class 6555, Type N, Sizes 1, 2, 3, 4 and 5	Industrial and Standard Control	TP
I.L. 11008		Marine Service, A-c, Multi-Speed Line-starters, Class 6555, Type N, Sizes 1, 2, 3, 4 and 5	Industrial and Standard Control	TP



APPARATUS CLASS NUMBER INDEX

CLASS NO.	PUBLICATION NUMBER	DESCRIPTION	APPARATUS DIVISION	MAIN STOCK LOCATION
3820 - MACHINE TOOL MOTORS AND CONTROL				
Note: Other instructions applying to Class 3820 are listed under Classes 7000-8499 and 15-000.				
	I.L. 3115	Variable Voltage Planer Controller . . .	Industrial Control	TP
	I.L. 3116	Constant Voltage Equipment for Metal Planers	Industrial Control	TP
	I.L. 3820-1	Variable Voltage Planer Controller . . .	Industrial Control	TP
	I.L. 3820-3	Adjustable Voltage Planer Controllers . .	Industrial Control	TP
3830 - PUMP MOTORS - VERTICAL HOLLOW-SHAFT				
	I.L. 3830-1	Vertical Hollow Shaft, Frames 504 through 507, VHS & SS, High Thrust, Type CSP	Motor	TP
	I.L. 3830-2	Vertical Hollow Shaft, Frames 364 through 8120 VHS & SS-FL and EP	Motors	TP
	I.L. 3830-3	CSP Motors Frames 580 through 683, Vertical Drip Proof High Thrust	Motor	TP
3880 - MOTORS TEXTILE MILL				
	I.L. 3880-1	Life-Line Loom Motors, Frames 224, 225, 254, 284, 324, Polyphase A-C Motors	Motor	TP
4500 - A-C GENERATORS				
	I.L. 4500-1	Synchronous Life-Line Generators and Motors Horizontal Drip-proof, Type CP, Frames 254 through 445, Prelub., Ball Bearings	Motor	TP
	I.L. 4500-2	Synchronous Life-Line Generators and Motors Horizontal Drip-proof, Type CP, Frames 580 through 683, Sleeve or Ball Bearings	Motor	TP
	I.B. 4500-50	Synchronous Horizontal A-c Generators . .	P A D	TP
4600 - D-C GENERATORS				
Note: Other instructions applying to Class 4600 are listed under Class 3500.				
	I.B. 4000-A	Direct-Current Generators and Motors . .	P A D	TP
4700 - MOTOR-GENERATOR SETS				
	I.L. 1694-D	Induction Frequency Changers	Motor	TP
	I.L. 4235	High Frequency Motor Generator Sets, Air Cooled	Motor	TP
	I.L. 4267	High Frequency Motor Generator Sets, Air Cooled	Motor	TP
	I.L. 4700-1A	High Frequency Motor Generator Sets, Enclosed Water-Cooled and Open Air-Cooled	Motor	TP
	I.B. 4700-50	Motor Generator	P A D	TP
	I.B. 5600-47	Westinghouse A-c to D-c Motor Generator Sets, Frames 1AV to 13AV	Motor	TP
	I.B. 5938-A	High Frequency Motor Generator Set . . .	P A D	TP
4900 - AV DRIVES				
	I.B. 3500-AV9	Adjustable Speed Drives 1 to 15 Hp . . .	Industrial Control	BU
	I.B. 3500-AV10	Adjustable Speed Drives 20 to 25 Hp . . .	Industrial Control	BU



APPARATUS CLASS NUMBER INDEX

CLASS NO.	PUBLICATION NUMBER	DESCRIPTION	APPARATUS DIVISION	MAIN STOCK LOCATION
4900 - AV DRIVES - Continued				
	I.B. 3500-AV11	Adjustable Speed Drives 30 Hp	Industrial Control	BU
	I.B. 4900-AV67	Adjustable Speed Drives 40 and 50 Hp	Industrial Control	BU
	I.B. 4900-AV68	Adjustable Speed Drives 60 to 200 Hp	Industrial Control	BU
5000 - MOTOR ACCESSORIES				
	I.L. 2082-A	Thermoguard Motors, Built-In Watchman	Motor	TP
5200 - BRAKES FOR A-C AND D-C MOTORS				
	I.L. 1421-H	Magnetic Brakes, Type A1	Motor	TP
	I.L. 1422-F	Magnetic Brakes, Types DI and DW	Motor	TP
	I.L. 2103-A	Hydraulic Operated (Thrustor) Brakes, Type HI	Motor	TP
	I.L. 2133-A	Magnetic Brakes, Types AI and DI, Frames 31 and 32	Motor	TP
	I.L. 2134-B	Magnetic Brakes, Types AI and DI, Frames 43 and 63	Motor	TP
	I.L. 3143-B	Magnetic Brake, Type AI, Frames 431, 631 and 831	Motor	TP
	I.L. 3605	Magnetic Brake, Type AI, Special Frame 31	Motor	TP
	I.L. 5220-1	Type SA Brakes	Motor	TP
5800 - RECTIFLOW DRIVES				
	I.L. 2161-1	Rectiflow Drives	Industrial Control	TP
7000-8499 - MANUAL CONTROL (D-C Motors)				
	I.L. 1588-E	Starting Rheostat, Class 7010, Type D	Industrial Control	TP
	I.L. 2208-A	Starting and Speed Regulating Rheostat, Classes 7010 and 7210 D-c, Frame No. 5	Industrial Control	TP
	I.L. 2209-A	D-c Starting and Speed Regulating Rheostat, Class 7210 Frame No. 3	Industrial Control	TP
	I.L. 2211-A	Speed Regulating Rheostat, Class 7310, D-c, Frame No. 3	Industrial Control	TP
	I.L. 2212-A	D-c Speed Regulating Rheostat, Class 7310, Frame No. 4	Industrial Control	TP
	I.L. 2213-B	D-c Speed Regulating Rheostat, Class 7350, Frame No. 3	Industrial Control	TP
8500-9500 - MAGNETIC CONTROL (D-C Motors)				
	I.L. 1867-B	Timestarters, Class 8512	Industrial Control	TP
	I.L. 2040-D	Timestarters, Class 8512-2	Industrial Control	TP
	I.L. 2188-A	Drum Type Starting Switch, Class 8509	Industrial Control	TP
	I.L. 7000-1	Direct-Current Magnetic Controllers	Industrial Control	TP
	I.L. 7000-2	Magnetic Controllers, Installation	Industrial Control	TP
	I.L. 8518-1	Controllers, D-c Heavy Duty Mill and Mine Type Starters, Class 8518	Industrial Control	TP
	I.L. 8522-1A	D-c General Purpose Non-Reversing Timestarters, Class 8522	Industrial Control	TP
	I.L. 9022-1A	D-c General Purpose Reversing Timestarters, Class 9022	Industrial Control	TP
	*I.B. 9500-1B	Steel Mill Magnetic Controllers, Heavy Duty, Class 9500	Industrial Control	TP



APPARATUS CLASS NUMBER INDEX

CLASS NO.	PUBLICATION NUMBER	DESCRIPTION	APPARATUS DIVISION	MAIN STOCK LOCATION
10-000 - MANUAL CONTROL (A-C Squirrel-Cage Motors)				
I.L. 991-A		Auto-Starter, Class 10-700, Type A, 2 and 3 Phase, No. 10 Frame	Industrial Control	TP
I.L. 1518-B		Auto-Starter with Thermal Overload Relay, 2 and 3 Phase, No. 1 Frame, Class 10-700, Type A	Industrial Control	TP
I.L. 1541-C		Auto-Starter with Thermal Overload Relay, Class 10-700, Type A, 2 and 3 Phase, No. 4 Frame	Industrial Control	TP
I.L. 1542		Auto-Transformer, Type A	Industrial Control	TP
I.L. 1627-G		Drum Switches, Type N-100 (Formerly Type 809)	Standard Control	BE
I.L. 1628-C		Drum Switches, Type N-300, (Formerly Type 810)	Standard Control	BE
I.L. 4299-A		Replacement Overload Relay Assembly for Class 10-100 Type "DnW" Motor Watchman	Standard Control	BE
I.L. 10-600-8		Auto-Starter, Type MB	Industrial Control	TP
I.L. 10-600-10		Auto-Starter, Type JF	Industrial Control	TP
11-000 - MAGNETIC CONTROL (A-C Squirrel-Cage Motors)				
I.L. 11823		Linestarter, Type N, Class 11-202 and 11-212, Oil Immersed, Size 1	Standard Control	BE
I.B. 7085		Operation and Installation Instructions for Class 11-202-H4 to 47, Type DnO Linestarter	Industrial Control	TP
I.L. 10410-B		Reversing Life-Linestarter, Class 11-211, N.2, Size 2, Type N	Standard Control	BE
I.L. 10413-B		Reversing Life-Linestarter, Class 11-211 N.2, 2-Phase, 4 Pole, Size 2, Type N	Standard Control	BE
I.L. 10574-B		Life-Linestarter, Starbutton or Selector Switch, Sizes 0, 1 and 2, Type N	Standard Control	BE
I.L. 11-000-1		Life-Line Control Magnetic General Purpose Starters	Industrial Control	TP
I.L. 11113		Life-Linestarter, Class 8502 N.1, 4 Pole (2 in Series) Size 1, Type N	Standard Control	BE
I.L. 11119		Reversing Life-Linestarter, Type ND, Size 1, Class 11-210 N. 18, 2 Phase, 4 Poles	Standard Control	BE
I.L. 11-202-1		Linestarter, H.V., Oil Immersed, Class 11-202, Type DnO	Industrial Control	TP
I.L. 11-400-1A		Life-Line Control, Magnetic Reduced Voltage Starter, Primary Resistance Type	Industrial Control	TP
I.L. 11-408-1B		Slow Starter for Roving Frames	Boston M & R	TP
I.L. 11-600-1		Life-Line Control, Magnetic Reduced Voltage Starter, Auto-Transformer Type, Time Limit Acceleration	Industrial Control	TP
I.L. 11-700-1A		Life-Line Control, Magnetic Part Winding Motor Starters, Time Limit Acceleration	Industrial Control	TP
12-000 - MANUAL CONTROL (A-C Wound Rotor Motors)				
I.L. 1786-E		Drum Controllers, Type A (For A-c and D-c Motors)	Industrial Control	TP
I.L. 2214-B		A-c Secondary Starting and Speed Regulating Rheostats, Classes 12-012 and 12-016	Industrial Control	TP
I.L. 3838		Elementary Controller Diagram, Class 12-950 3-Circuit Crane Protective Controller	Industrial Control	TP



APPARATUS CLASS NUMBER INDEX

CLASS NO.	PUBLICATION NUMBER	DESCRIPTION	APPARATUS DIVISION	MAIN STOCK LOCATION
12-000 - MANUAL CONTROL (A-C Wound Rotor Motors) - Continued				
I.L. 9810-1		Mechanical Differential Speed Error Detecting Unit	Industrial Control	TP
I.L. 12-300-1		A-c Non-Reversing Drum Controller, Type A	Industrial Control	TP
13-000 - MAGNETIC CONTROL (A-C Wound Rotor Motors)				
I.B. 5197-B		Liquid Slip Regulators	Industrial Control	TP
I.L. 13-100-1		A-c General Purpose Starters, Classes 13-100, 13-500 and 13-120, for L.V. Wound-Rotor Induction Motors	Industrial Control	TP
I.L. 13-300-1		Life-Line Control, Motor Operated. See Controllers for Wound Rotor Motor, Type SC - Class 13-300	Industrial Control	TP
I.L. 13-626-1		Modified Load-O-Matic A-c Crane Hoist Control	Industrial Control	TP
I.L. 13-900-1		Liquid Rheostat	Industrial Control	TP
I.L. 13-910-1		Liquid Slip Regulator	Industrial Control	TP
14-000 - CONTROL (A-C Synchronous Motors)				
I.L. 4021		Type "STA" Synchronous Motor Field Application Unit	Industrial Control	TP
I.L. 14-000-1-B		Slipsyn, Synchronous Motor Control	Industrial Control	TP
I.L. 14-212-1		Rubber Mill Controller, Class 14-212 HSRM Comb. Type Full Voltage, Synch. Motor	Industrial Control	TP
14-500 - CONTROL RESISTORS AND RHEOSTATS				
I.L. 1733-C		Edgewound Resistors, Type M	Industrial Control	TP
I.L. 1734-D		Grid Type Resistors	Industrial Control	TP
I.L. 2299-C		Field Rheostat, Type WL	Industrial Control	TP
I.L. 14-515-1		D-c Field Rheostats, Types LK and LR	Industrial Control	TP
I.L. 14-516-2		Motor-Driven Operating Mechanism, Type RK, For D-c Field Rheostats	Industrial Control	TP
I.L. 15-516-3		Type RKM Motor Driven Operating Mechanism for D-c Field Rheostats	Industrial Control	TP
I.L. 16-600-1A		Type LG Punched Grid Resistors	Industrial Control	TP
I.L. 16-621-A		Grounding Resistors	Industrial Control	TP
15-000 - PUSHBUTTONS AND PILOT CONTROL				
I.L. 1878-C		Hatchway Limit Switch, Type HS-1,2,3	Industrial Control	TP
I.L. 2162-B		Float Switch, Class 15-040	Standard Control	BE
I.L. 2176-A		Foot-Operated Pushbuttons, Class 15-025, Type F	Standard Control	BE
I.L. 2263-A		Precision Limit Switch, Type PL	Industrial Control	TP
I.L. 2315		Pressure Governor, Class 15-066	Industrial Control	TP
I.L. 2672-B		Heavy Duty Master Switch, Type SM	Industrial Control	TP
I.L. 3906-A		Limit Switch, Type LS	Industrial Control	TP
I.L. 4833-B		Interlock Assembly, Class 15-022, Type OT Pushbuttons	Standard Control	BE
I.L. 11103		Interlock Assembly, Class 15-022, Type OT Pushbuttons, Momentary Maintained	Standard Control	BE
I.L. 11141		Operating Lever Assembly, Class 15-022, Type OT Pushbuttons	Standard Control	BE
I.L. 15-075-1		Type PLS Lever-Operated Limit Switch, Class 15-075	Industrial Control	TP
I.L. 15-075-2		Rod Operated Limit Switch, Type PRS, Class 15-075	Standard Control	BE



APPARATUS CLASS NUMBER INDEX

CLASS NO.	PUBLICATION NUMBER	DESCRIPTION	APPARATUS DIVISION	MAIN STOCK LOCATION
15-000 - PUSHBUTTONS AND PILOT CONTROL - Continued				
I.L. 15-075-3		Limit Switches for Reversing Planers Class 15-075 - Types PD & PS	Industrial Control	TP
I.L. 15-075-4A		Type HDH Heavy Duty Hatchway Limit Switch	Industrial Control	TP
I.L. 15-110-1		Type DM Master Switch	Industrial Control	TP
I.L. 15-085-1B		Cam Limit Switches, Class 15-085, Type A	Industrial Control	TP
15-800 - CONTACTORS, RELAYS, TIMETACTORS AND ELECTRICAL INTERLOCKS				
I.L. 945-D		Overload Relays, Type KN, Single and Double Pole	Industrial Control	TP
I.L. 1414-E		Double Pole Overload Relays, Type KN-2	Industrial Control	TP
I.L. 1493-G		Thermal Overload Relay, Type TA	Industrial Control	TP
I.L. 1598-C		Contactors, Types 42-FH and 52-FH	Industrial Control	TP
I.L. 1675-E		Electrical Interlocks, Type L4	Industrial Control	TP
I.L. 1778-F		Thermal Overload Relays, Type TA-2	Industrial Control	TP
I.L. 1882-D		Contactors, Magnet Closed, Type SM, Frames 101, 102 and 104	Industrial Control	TP
I.L. 1917-B		Contactors, Magnet Closed, Type SM, Frame No. 108	Industrial Control	TP
I.L. 1944-D		Magnetic Contactor, Type F, Frame No. 65-F5	Industrial Control	TP
I.L. 2091-D		Motor-Operated Definite Time Relays, Types KU-10, KU-11 and KU-12	Industrial Control	TP
I.L. 2142-D		Thermal Overload Relays, Types TA-5 and TA-23	Industrial Control	TP
I.L. 2170-D		Electrical Interlock, Type L-39	Industrial Control	TP
I.L. 2302-E		Type Dn Contactors, Size 3 and Size 4	Industrial Control	TP
I.L. 2303-E		Type Dn Contactor, Size 2	Industrial Control	TP
I.L. 2307-F		Thermal Overload Relay, Type MP	Industrial Control	TP
I.L. 2405-D		Contactor, Size 2	Industrial Control	TP
I.L. 2406-A		Electrical Interlock, Type L-41	Industrial Control	TP
I.L. 2546-D		Type Dn Contactors, Sizes 0 and 1	Standard Control	BE
I.L. 2671-A		Relay, Type HI	Industrial Control	TP
I.L. 2827		UD-103 Rotation Indicating Relay	P A D	TP
I.L. 3148-A		Type Dn Latch-in Contactors, Size 2, Frame Nos. 220, 230, 240	Industrial Control	TP
I.L. 3254-A		Type Dn Contactors, Sizes 3 and 4, (3 Poles)	Industrial Control	TP
I.L. 3283-B		Type Dn Multi-Pole Contactor, Size 00, 2 to 8 Poles	Standard Control	BE
I.L. 3413-A		Type SM Contactors, Magnet Closed, Frames 201, 202 and 204	Industrial Control	TP
I.L. 3448-A		Type Dn Latch-in Contactors, Sizes No. 3 and 4, (2, 3, and 4 Poles)	Industrial Control	TP
I.L. 3487-C		Type TI-2 Relay	Industrial Control	TP
I.L. 4230		Overload Relays, Type MG and Type MGI	Industrial Control	TP
I.L. 4437		Magnetic Contactor, Type F, Frame No. 66-F5H	Industrial Control	TP
I.L. 4439		Type DnH Contactor, Size 4	Industrial Control	TP
I.L. 10234-D		Pneumatic Timing Relays, Type AM, with or without Aux. Switch Units	Standard Control	BE
I.L. 10245-A		Magnetic Contactors, Type MM, Frame 310, 410, D-c Single Pole, Magnet Closed	Industrial Control	TP
I.L. 10246-A		Magnetic Contactors, Type MM, Frame 311, 411, D-c One Pole, Normally Open and One Pole Normally Closed	Industrial Control	TP
I.L. 10247-A		Magnetic Contactors, Type MM, Frame 320, 420, D-c Two Pole, Magnet Closed	Industrial Control	TP

STANDARD INSTRUCTION BOOKS AND LEAFLETS



APPARATUS CLASS NUMBER INDEX

CLASS NO.	PUBLICATION NUMBER	DESCRIPTION	APPARATUS DIVISION	MAIN STOCK LOCATION
15-800 - CONTACTORS, RELAYS, TIMETACTORS AND ELECTRICAL INTERLOCKS - Continued				
I.L. 10248-A		Magnetic Contactors, Type MM, Frame 321, 421, D-c Two Pole, Normally Open and One Pole Normally Closed	Industrial Control	TP
I.L. 10249-A		Magnetic Contactors, Type MM, Frame 322, 422, D-c, Two Poles, Normally Open and Two Poles Normally Closed	Industrial Control	TP
I.L. 10250-A		Magnetic Contactors, Type MM, Frames 301, 401, D-c Single Pole, Spring Closed	Industrial Control	TP
I.L. 10707-A		Overload Relays, Types MW-31 and WM-41 for use with Size 3 and 4 Life-Linestarters	Industrial Control	BE
I.L. 10708-B		Type L-60 Electrical Interlock for Use with Sizes 3 and 4 Life-Linestarters and Types NR, NRD & NRL, Contactors	Industrial Control	TP
I.L. 11095		Electrical Interlock, Style No. 1740 233 for Size 2, Type N Linestarter	Standard Control	BE
I.L. 11192-D		Control Relay, Type NH, Class 15-820NH	Standard Control	BE
I.L. 11548-C		Mechanically Latched Control Relay, Type NHL, Class 15-820NHL	Standard Control	TP
I.L. 15-800-1B		Magnetic Contactors, Type M, Frames 301, 401, 501, 601, and 701, D-c Single-Pole, Spring Closed	Industrial Control	TP
I.L. 15-800-2A		Magnetic Contactors, Type M, Frames 310, 410, 510, 610 and 710, D-c Single-Pole, Magnet Closed	Industrial Control	TP
I.L. 15-800-3B		Magnetic Contactors, Type M, Frames M-810, M-810-R and Two Poles Normally Open and Two Poles Normally Closed	Industrial Control	TP
I.L. 15-800-HQ-1A		Thermostatic Relays, Type HQ	Industrial Control	TP
I.L. 15-800-M-001/101/201-1		D-c Magnetic Contactors, Frames 001, 101 and 201, Spring Closed, Type M	Industrial Control	TP
I.L. 15-800-M-010/110/210-1B		D-c Magnetic Contactors, Type M, Frames 010, 110 and 210, Single-Pole Magnet Closed	Industrial Control	TP
I.L. 15-800-M-011/111/211-1A		D-c Magnetic Contactors, Type M, Frames 011, 111 and 211, One Pole Normally Open and One Pole Normally Closed	Industrial Control	TP
I.L. 15-800-M-020/120/220-1B		D-c Magnetic Contactors, Type M, Frames 020, 120 and 220, Two Poles Magnet Closed	Industrial Control	TP
I.L. 15-800-M-021/121/221-1A		D-c Magnetic Contactors, Frames 021, 121 and 221, Two Poles Normally Open and One Pole Normally Closed, Type M	Industrial Control	TP
I.L. 15-800-M-022/122/222-1A		D-c Magnetic Contactors, Type M, Frames 022, 122 and 222, Two Poles Normally Open and Two Poles Normally Closed	Industrial Control	TP
I.B. 15-823-1A		A-c Magnetic Contactors, Air Break, Class 15-823	Industrial Control	TP
I.L. 15-825-1		Type NRD Contactor, Frames 3 and 4 with 2, 3, 4 or 5-poles (A-c Contactor with D-c Magnet and Coils)	Industrial Control	BE
I.L. 15-825-2A		Type NRL Latched-in Contactors, Class 15-825, Sizes 3 & 4 - 2, 3, 4 & 5 Poles A-C	Industrial Control	TP
I.L. 15-825-5B		A-c Contactors, Type NF, Size 5; 2, 3, 4 or 5-Pole, Front or Rear Connected	Industrial Control	TP
I.L. 15-825-7		A-c Contactors, Type NF, 2 or 3-Pole, Sizes 6, 7, 8, Rear Connected	Industrial Control	TP
I.L. 15-825-8		A-c Contactors, Type NFD with D-c Operating Coils, Sizes 6, 7, 8, 2 or 3 Pole, Rear Connected	Industrial Control	TP



APPARATUS CLASS NUMBER INDEX

CLASS NO.	PUBLICATION NUMBER	DESCRIPTION	APPARATUS DIVISION	MAIN STOCK LOCATION
15-800 - CONTACTORS, RELAYS, TIMETACTORS AND ELECTRICAL INTERLOCKS - Continued				
I.L.	15-825-FDH	Magnetic Contactors, Type FDH, Frames 72FDH, 92FDH and 102 FDH	Industrial Control	TP
I.L.	15-825-FDHB	Magnetic Contactors, Type FDHB, Frames 92FDHB, 120FDHB	Industrial Control	TP
I.L.	15-825-L44-1	Electrical Interlocks, Type L-44	Industrial Control	TP
I.L.	15-825-122-FDH	Air Blast Magnetic Contactor, Type 122FDH	Industrial Control	TP
I.L.	15-827-1-AP	Magnetic Plugging Relay for D-c Operation, Type AP	Industrial Control	TP
I.L.	15-827-2-AQ	Magnetic Timetactors, Type AQ, Sizes No. 2, 4 and 5, for D-c Operation	Industrial Control	TP
I.L.	15-827-3-AQZ-A	Magnetic Timetactors, Type AQZ, Sizes No. 2 and 4, for D-c Operation	Industrial Control	TP
I.L.	15-827-4-AYC	Magnetic Relays, Type AYC, for D-c Operation	Industrial Control	TP
I.L.	15-827-5-AYJ	Magnetic Overload and Jamming Relays, Type AYJ, for D-c Operation	Industrial Control	TP
I.L.	15-827-6-AYV	Magnetic Relays, Type AYV, for D-c Operation	Industrial Control	TP
I.L.	15-827-7-AZ-A	Magnetic Time Delay Relays for D-c Operation, Type AZ	Industrial Control	TP
I.L.	15-827-8	Relay, Type AYK, 600 Volts D-c, Magnet Operated	Industrial Control	TP
I.L.	15-827-9	Relay, Type AYN, 600 Volts A-c, Magnet Operated	Industrial Control	TP
I.L.	15-827-10	Overload Relays, Type MW-51, MW-52 and MW-53 for Use with Size 5 Life-Linestarter	Industrial Control	TP
I.L.	15-827-11A	Type AV Relays, Adjustable Voltage, D-c	Industrial Control	TP
I.L.	15-827-12	Type UV Relay	Industrial Control	TP
I.L.	15-827-13	Type MW-31 and MW-41, Overload Relays with Normally Open Contacts, Sizes 3, 4	Standard Control	BE
I.L.	15-827-15	Pneumatic Timing Relay, Type AMB	Standard Control	BE
I.L.	15-827-DP-1	Damper Protective Relay, Type DP	Industrial Control	TP
I.L.	15-827-HC-1	Relay, Type HC	Industrial Control	TP
I.L.	15-829-1A	Electrical Interlock, Type L-W	Industrial Control	TP
I.L.	15-829-2	Electrical Interlock, Type L-60	Industrial Control	TP
I.L.	15-829-3	Electrical Interlock, Type L-62	Industrial Control	TP
I.L.	15-829-4	Type L-63 Electrical Interlock	Industrial Control	TP
I.L.	15-829-L46-1C	Electrical Interlock, Type L-46	Industrial Control	TP
I.L.	15-829-L47-1A	Electrical Interlock, Type L-47, Normally Closed	Industrial Control	TP

17-000 - A-C CONTACTORS

I.L.	17-400-1	Life-Line Magnetic Reduced Voltage Starter Primary Resistance Type, Time Limit Acceleration	Industrial Control	TP
I.L.	17-700-1	Life-Line Magnetic Part Winding Motor Starters, Time Limit Acceleration	Industrial Control	TP
I.L.	17-825-1	Life-Line Type NR Contactor - 2, 3, 4 & 5 Poles, for use with Air Conditioning Compressors	Industrial Control	TP
I.L.	17-825-2	Type NF - Size 5 - A-c Contactors, 2, 3, 4 & 5 Pole, Front or Rear Connected, for use with Air Conditioning Compressors	Industrial Control	TP

STANDARD INSTRUCTION BOOKS AND LEAFLETS



APPARATUS CLASS NUMBER INDEX

CLASS NO.	PUBLICATION NUMBER	DESCRIPTION	APPARATUS DIVISION	MAIN STOCK LOCATION
18-000 - ELECTRONIC CONTROL				
I.L. 3342-B		Photo-Troller, Type RQ	Industrial Control	TP
I.L. 3496		Light Source, Type F-1 and Extended Phototube Housing, Type A-1	Industrial Control	TP
I.B. 18-110-9		Mot-O-Trol Integral Hp Electronic Motor Drive	Industrial Control	BU
I.B. 18-110-24		Mot-O-Trol Integral Hp Electronic Motor Drive	Industrial Control	BU
I.B. 18-210-3		Electronic Dancer Regulator	Industrial Control	BU
I.B. 18-210-4		Beam Letoff Drive	Industrial Control	BU
I.B. 18-310-1		Photo-Troller, Type RX-1	Industrial Control	TP
I.B. 18-334-HC-1		Electronic Heat Control Attachment for use with Weld-O-Trols and Timers	Industrial Control	TP
I.B. 18-513-4		RR-11 Register Regulator	Industrial Control	BU
I.B. 18-513-6		RR-12 Register Regulator	Industrial Control	BU
I.B. 18-513-9		Register Regulator, Type RR-6	Industrial Control	BU
I.B. 18-530-2		EC-10 Edge Control Regulator	Industrial Control	BU
I.B. 18-530-5		SC-5 Edge Control Regulator	Industrial Control	BU
I.B. 18-530-6		LC and LCL Edge Control Regulator	Industrial Control	BU
I.B. 18-600		Voltage Regulator, Type DT-58	Industrial Control	TP
I.B. 18-600-30		DT-7 Voltage Regulator D-c Generator	Industrial Control	BU
I.B. 18-600-31		DT-7 Voltage Regulator A-c Generator and High Frequency Generator	Industrial Control	BU
18-900 - RESISTANCE WELDING CONTROL				
I.L. 4656		Electro-Thermostatic Flow Switch	Industrial Control	TP
I.L. 10222		Pulsation Spot Welding Sequence Control	Industrial Control	BU
I.L. 10225		Spot Welding Sequence Control	Industrial Control	BU
I.L. 10226		Dual Weld Attachment	Industrial Control	BU
I.B. 26-736-SEQ-1		Automatic Weld and Sequence Timers	Industrial Control	TP
19-000 - METALLIC RECTIFIERS				
I.L. 1782-B		Rectox Rectifiers for Circuit Breaker Operation	Industrial Control	TP
I.L. 2026		Rectox Rectifier for Battery Charging, Style Nos. 687 339, 687 340, 761 911, 793 104	Industrial Control	TP
I.L. 2043		Rectox Rectifier for Battery Charging, Style Nos. 842 027, 842 028, 842 029, 842 030, 842 031, 842 032, 842 033, 842 034, 860 895, 874 077	Industrial Control	TP
I.L. 2338-A		Rectox Units - Instructions for Operating	Industrial Control	TP
I.L. 2556		Rectox Rectifier, Style Nos. 899 783, 920 763	Industrial Control	TP
I.L. 3286		Rectox Rectifier, Style No. 1070 360	Industrial Control	TP
I.L. 19-030-5		Rectox Rectifier for Battery Charging, Style Nos. 581 911, 581 912, 716 041, 716 042, 831 831, 1228 675, 1246 602, 1246 603, 875 952	Industrial Control	TP
I.L. 19-052-1		Rectox Electro-Plating Rectifiers	Industrial Control	TP
26-000 - ARC WELDING EQUIPMENT				
I.L. 2442-D		Single Operator Welding Sets	Welding	TP
I.L. 3583-D		Single Operator Welding Sets	Welding	TP
I.L. 26-150-4		Arc Welding Rectifier D-c, Type RA	Welding	TP
I.L. 26-150-5		Truck Type Mounting for Types RA and TA Arc Welders	Welding	TP



APPARATUS CLASS NUMBER INDEX

CLASS NO.	PUBLICATION NUMBER	DESCRIPTION	APPARATUS DIVISION	MAIN STOCK LOCATION
26-000 - ARC WELDING EQUIPMENT - Continued				
I.L. 26-350-1		Alternating-Current Arc Welder, Type TA .	Welding	TP
I.L. 26-400-1		Weldomatic Head	Welding	TP
I.L. 26-400-6		D-c Weldomatic Control and Operator's Panels	Welding	TP
I.L. 26-400-7		Weldomatic Control M-G Sets, Style No. 1457 041	Welding	TP
27-000 - ELECTRIC HEATING FOR HOMES				
PC-646-A		Electric Heating for Homes, Instructions for Wall Models	Emeryville M & R	EM
PC-647		Electric Heating for Homes, Instructions for Floor Models	Emeryville M & R	EM
PC-769		Electric Heating for Homes, Instructions for Bathroom Model	Emeryville M & R	EM
28-000 - INDUSTRIAL HEATING				
I.L. 1468-B		Industrial Electric Heating Control Panel	Buffalo M & R	TP
29-000 - UNIT CIRCUIT BREAKERS				
I.L. 4839-B		Breaker Operating Mechanism for "K" and "KL" Fr. AB Breakers, Cover Mtg.	Standard Control	BE
I.L. 4840-A		Interlock Latch Parts for Two-Point Latching	Standard Control	BE
I.L. 10570-A		Breaker Operating Mechanism for "E" Frame AB Breakers, Cover Mounted	Standard Control	BE
I.L. 10571-C		Breaker Operating Mechanism for "F" Frame AB Breakers, Cover Mounted	Standard Control	BE
I.L. 10572-B		Breaker Operating Mechanism for "G" Frame AB Breakers, Cover Mounted	Standard Control	BE
I.L. 11011		Interlock Latch Parts for Two-Point Latching of Left-Hand Mechanisms	Standard Control	BE
I.L. 11014-A		Breaker Operating Mechanism for "J" Frame AB Breakers, Cover-Mounted	Standard Control	BE
I.L. 11015-A		Breaker Operating Mechanism for "J" Frame AB Breakers, Cover-Mounted, Left-Hand	Standard Control	BE
I.L. 11016-A		Motor-Operated Mechanism for AB De-ion Circuit Breaker, Type K, 2 and 3 Pole, 225 Frame Size	Standard Control	BE
I.L. 11017-A		Motor-Operated Mechanism for AB De-ion Circuit Breaker, Type L, 2 and 3 Pole	Standard Control	BE
I.L. 11542-A		Vari-Depth Operating Mechanism, for 30, 60 & 100 A. De-ion Switches & 2 & 3 Pole Type F Circuit Breakers	Standard Control	BE
I.L. 11567		Motor Operated Mechanism for AB De-ion Circuit Breaker, Type J, 2 & 3 Pole, 225 Frame Size	Standard Control	TP
I.L. 11568		Motor Operated Mechanism for AB De-ion Circuit Breaker, Type KL, 2 & 3 Pole, 400 Frame Size	Standard Control	TP
I.L. 11641-B		Plug-in Bus Duct Splice Assembly	Standard Control	BE
I.L. 11642		Bus Duct Aluminum Bus Bar Connection	Standard Control	BE
I.L. 11796		Breaker Operating Mechanism (Cover Mtg.) for "L" Frame AB Breakers	Standard Control	BE
I.L. 11910-B		Visi-Flex De-ion Switch, 60 Ampere & Special 100 Ampere Model A	Standard Control	BE

STANDARD INSTRUCTION BOOKS AND LEAFLETS



APPARATUS CLASS NUMBER INDEX

CLASS NO.	PUBLICATION NUMBER	DESCRIPTION	APPARATUS DIVISION	MAIN STOCK LOCATION
29-000 - UNIT CIRCUIT BREAKERS - Continued				
I.L. 11911B		Visi-Flex De-ion Switch, 30 Ampere . . .	Standard Control	BE
I.L. 11822		2P Quicklag Circuit Breaker Instructions for Assembling Mounting Plate to Breaker	Standard Control	BE
I.L. 11927		Vari-Depth Operating Mechanism for "J" Frame Breaker and 200 Ampere De-ion Switch	Standard Control	BE
I.L. 11928		Vari-Depth Operating Mechanism for "K" Frame Breaker	Standard Control	BE
31-000 - SWITCHBOARDS AND SUPERVISORY CONTROL				
31-800 - REGULATORS AND SYNCHRONIZERS				
I.L. 3083-B		Silverstat Generator Voltage Regulator, SRA Exciter Field Rheostat in Parallel with Regulating Resistance	Switchgear	TP
I.L. 3437		Silverstat Generator Voltage Regulator, Type SRA-JR	Switchgear	TP
I.L. 3438-A		Silverstat Generator Voltage Regulator for D-c Generators, Type SRD-JR	Switchgear	TP
I.B. 5155-I		Vibrating-Type Voltage Regulators for A-c Generators	Switchgear	TP
I.B. 31-255		Automatic Current Regulator for Electric Arc Furnaces	Switchgear	TP
I.B. 31-260-CS-1A		Silverstat Generator Voltage Regulators, Types SRA-I to SRA-5, SRD-1 to SRD-5 .	Switchgear	TP
I.B. 31-651-2		Mag-A-Stat Voltage Regulator for Ignitron Rectifiers, Type WMA-D-2 . . .	Switchgear	TP
I.L. 31-674		Electronic Speed Regulator Panel	Switchgear	TP
I.L. 31-687		Electronic D-c Amplifier Panels	Switchgear	TP
I.L. 31-690		Electronic Exciter Panels	Switchgear	TP
I.B. 31-280-1		Rototrol Current Regulator for Arc Furnaces, Type RF	Switchgear	TP
I.L. 3685		Automatic Synchronizer, Type XK	Switchgear	TP
I.B. 31-850-2		Automatic Synchronizer, Electronic Type, XT-7-C and XT7-P	Switchgear	TP
I.B. 5674-B		Balanced Torque Type Speed Matcher . . .	Switchgear	TP
32-000 - SWITCHGEAR ASSEMBLIES				
I.B. 32-100-1A		Low-Voltage Metal Enclosed Switchgear . .	Switchgear	TP
I.B. 32-150-4A		Metal Clad Switchgear with Type DH Air Circuit Breakers	Switchgear	TP
I.B. 32-160-1A		High-Voltage Metal-Clad Switchgear with Types "F" and "B" Oil Circuit Breakers.	Switchgear	TP
I.B. 32-410-1		De-ion Anode Air Circuit Breakers, Type DM	Switchgear	TP
I.B. 32-150-3A		De-ion Air Circuit Breaker, Type DH . . .		
I.B. 32-251-1A		De-ion Air Circuit Breaker, Type 50-DH-75	Switchgear	TP
I.B. 32-251-3		De-ion Air Circuit Breaker, Types 50-DH-150E & 50-DH-250E	Switchgear	TP
I.B. 32-251-4		De-ion Air Circuit Breaker, Type 50-DH-350	Switchgear	TP



APPARATUS CLASS NUMBER INDEX

CLASS NO.	PUBLICATION NUMBER	DESCRIPTION	APPARATUS DIVISION	MAIN STOCK LOCATION
33-000 - POWER CIRCUIT BREAKERS (High Voltage & Medium Voltage)				
	I.L. 4447-A	Circuit Breaker Closing Scheme using X and Y Relays	Switchgear	TP
	I.B. 5235-C	Oil Circuit Breakers, Types G-1, G-10, G-11, G-111, G-111-S, G-2, G-22, G-22-A, G-22-S, G-222, G-222-A, G-22-AS and G-222-S	Switchgear	TP
	I.B. 5331-B	Oil Circuit Breakers, Type O	Switchgear	TP
	I.B. 5441-D	Condenser Bushing Potential Device	Switchgear	TP
	I.B. 5502-E	De-ion Grid Oil Circuit Breaker, Outdoor Type.	Switchgear	TP
	I.B. 5655-F	Type F-100 Oil Circuit Breakers, 2 or 3 Pole, Single Throw	Switchgear	TP
	I.B. 5678-A	Oil Circuit Breakers, Type O-111-A	Switchgear	TP
	I.B. 5709-3	De-ion Air Circuit Breakers, Type U	Switchgear	TP
	I.B. 5816	Oil Circuit Breakers, Type GO-B, GO-1-B, GO-2-B	Switchgear	TP
	I.B. 5929-B	De-ion Air Circuit Breakers, Type U	Switchgear	TP
	I.B. 33-125-1A	Type CAS-8 Pneumatic Operating Mechanism for Oil Circuit Breakers	Switchgear	TP
	I.B. 33-125-2A	Oil Circuit Breaker Operating Mechanism, Type CAS-6	Switchgear	TP
	†I.L. 33-155-1A	Outdoor Condenser Bushing, Type "O"	Switchgear	TP
	I.L. 33-155-2	Outdoor Condenser Bushings, Type "S"	Switchgear	TP
	I.B. 33-125-C2	Type AA-7 Pneumatic Operating Mechanism for Oil Circuit Breaker	Switchgear	TP
	I.B. 33-125-C3C	Type AA-10 Pneumatic Operating Mechanism, for Oil Circuit Breakers	Switchgear	TP
	I.L. 33-155-3	Outdoor Condenser Bushings, Type "O", Shipped Vertical in Crates	Switchgear	TP
	I.L. 33-155-5	Outdoor Condenser Bushings Type "O", Shipped in Boxes	Switchgear	TP
	I.L. 33-210-1	Oil Circuit Breaker, Type F-10	Switchgear	TP
	I.L. 33-215-1	Oil Circuit Breakers, Type F-11 and F-22.	Switchgear	TP
	I.B. 33-216	Type SAF-2 Operating Mechanism for Type F-122 and Type F-124	Switchgear	TP
	I.B. 33-216-1A	Oil Circuit Breakers, Type F-122	Switchgear	TP
	I.B. 33-220-1	Oil Circuit Breakers, Type MF	Switchgear	TP
	I.B. 33-226-1	Oil Switches, Type CS	Switchgear	TP
	I.B. 33-226-2A	Oil Circuit Breakers, Type F-124-A	Switchgear	TP
	†I.L. 33-245-1	Oil Circuit Breaker, Type F-1	Switchgear	TP
	I.B. 33-251-2	Oil Circuit Breaker Outdoor, Type G, De-ion Grid	Switchgear	TP
	I.B. 33-251-3	Oil Circuit Breaker Outdoor, Type GC, De-ion Grid	Switchgear	TP
	I.B. 33-253-3	Oil Circuit Breaker Outdoor, Type GM, 115 to 161KV, De-ion Grid	Switchgear	TP
	I.B. 33-253-10	Oil Circuit Breakers Outdoor, Type GM	Switchgear	TP
	I.B. 33-354-1	Outdoor Condenser Bushings, Type "O"	Switchgear	TP
	I.B. 33-253-12	Oil Circuit Breakers Outdoor, Type GM	Switchgear	TP
	I.L. 33-350-1	Rectifiers for Circuit Breaker Operation, Selenium Type	Switchgear	TP
	I.L. 33-354-2	Type "S" ASA Standard Outdoor Condenser Bushings	Switchgear	TP
	I.B. 33-356-2	Bushing Type Linear Coupler Transformers, Type BLC	Switchgear	TP

†Leaflets stocked "with envelopes" and "without envelopes."

STANDARD INSTRUCTION BOOKS AND LEAFLETS



APPARATUS CLASS NUMBER INDEX

CLASS NO.	PUBLICATION NUMBER	DESCRIPTION	APPARATUS DIVISION	MAIN STOCK LOCATION
33-000 - POWER CIRCUIT BREAKERS (High Voltage & Medium Voltage) - Continued				
I.L. 33-350-1		Rectifier for Circuit Breaker Operation, Selenium Type	Switchgear	TP
I.B. 33-357-1		Bushing Potential Device, Type PBA2 . . .	Switchgear	TP
I.B. 33-560-1		Type F-100 Oil Circuit Breakers, 600, 1200 & 2000 A., 7200 V.	Switchgear	TP
I.B. 33-600-1		Types B-20-B & B-22-B Oil Circuit Breakers, 600 & 1200 A., 13,800 Volts .	Switchgear	TP
I.B. 33-600-2		Solenoid Operated Mechanism, Type SA-3 for Oil Circuit Breakers	Switchgear	TP
I.B. 33-600-3		Type B-28-B Oil Circuit Breakers, 600, 1200 & 2000 A., 13,800 Volts, Elec. Oper.	Switchgear	TP
I.B. 33-650-1		Types B-8A and B-10A Oil Circuit Breakers	Switchgear	TP
*I.B. 33-700-4		Type SAF-4 Solenoid-Operated Mechanism for Oil Circuit Breakers	Switchgear	TP
I.B. 33-702		Type SAF-6 Solenoid Operating Mechanism for Use with Oil Circuit Breakers . . .	Switchgear	TP
I.B. 33-746		De-ion Grid Outdoor Oil Circuit Breakers, Type GO-1A, 34.5 and 46 Kv	Switchgear	TP
I.B. 33-750-1A		De-ion Grid Oil Circuit Breaker, Outdoor Type GO	Switchgear	TP
I.B. 33-750-2A		De-ion Grid Oil Circuit Breaker, Outdoor Type GO	Switchgear	TP
I.B. 33-750-3A		Type G Outdoor De-ion Grid Oil Circuit Breakers, 15, 23, 34.5, 46 & 69K . . .	Switchgear	TP
I.B. 33-750-4		"De-ion" Grid Oil Circuit Breaker Outdoor Type G	Switchgear	TP
I.B. 33-751-1		De-ion Grid Oil Circuit Breaker, Outdoor Type GM-6A	Switchgear	TP
I.B. 33-805-1A		De-ion Grid Oil Circuit Breaker, Outdoor Type GM	Switchgear	TP
I.B. 33-805-2A		De-ion Grid Oil Circuit Breaker, Outdoor Type GM	Switchgear	TP
I.B. 33-805-4A		De-ion Grid Oil Circuit Breaker, Types GM-4A and GM-5A	Switchgear	TP
I.B. 33-850-4&5A		De-ion Air Circuit Breakers, Types DB-75 and DB-100	Switchgear	TP
33-700 - LOW-VOLTAGE AIR CIRCUIT BREAKERS (Formerly 35-000)				
I.B. 5241-G		Carbon Circuit Breakers, Type CL	Homewood M & R	TP
I.B. 5403-C		Air Circuit Breakers, Type HS	Switchgear	TP
I.B. 5772-A		Air Circuit Breaker, Type CHM	Switchgear	TP
*I.B. 5943-A		Air Circuit Breaker, Type DA	Switchgear	TP
*I.B. 5965-F		Air Circuit Breakers, Types DK-15 and DK-25	Switchgear	TP
*I.B. 33-850-1&2A		De-ion Air Circuit Breakers, Types DB-15 and DB-25, 600 V. A-c, 250 V. D-c . . .	Switchgear	TP
I.B. 33-850-3		De-ion Air Circuit Breakers, Type DB-50, 1600 Ampere	Switchgear	TP
I.B. 35-260-A		Air Circuit Breaker, Type DR	Switchgear	TP
35-000 - NETWORK PROTECTORS (Formerly 35-500)				
I.L. 3913		Westinghouse Type "EL" Limiter, Installing	Switchgear	TP
*I.B. 5794-C		Network Relays, Types CN-33, CN-J and EN.	Switchgear	TP
I.B. 35-450-1		Medium Duty Network Protectors, Type CM-45	Switchgear	TP

*Instruction Books stocked "with covers" and "without covers."

†Leaflets stocked "with envelopes" and "without envelopes."



APPARATUS CLASS NUMBER INDEX

CLASS NO.	PUBLICATION NUMBER	DESCRIPTION	APPARATUS DIVISION	MAIN STOCK LOCATION
35-000 - NETWORK PROTECTORS (Formerly 35-500) - Continued				
	I.B. 35-500-1A	Heavy Duty Network Protectors, Type CM-22	Switchgear	TP
	I.B. 35-600-1	Medium Duty Network Protectors, Type CM-44	Switchgear	TP
36-000 - DISCONNECTING SWITCHES AND FUSES				
	I.L. 3108	Type RL Switch	Switchgear	TP
	I.L. 3109	Type RW Switch	Switchgear	TP
	I.L. 36-150-3	Load Interrupter Switch, Type LCB	Switchgear	TP
	I.L. 36-155	Load Interrupter Switch, Type VLB	Switchgear	TP
	I.B. 36-160-1A	Disconnecting Switch, Type V	Switchgear	TP
	†I.L. 36-160-3	Universal Operating Mechanism, Type TP	Switchgear	TP
	†I.L. 36-160-4	Operating Mechanism, Type RP	Switchgear	TP
	I.L. 36-160-5	Type "V" Air Switch, Field Assembly Outline	Switchgear	TP
	I.L. 36-160-6	Type TP Geared Mechanism	Switchgear	TP
	I.L. 36-162	Type RWR Switch	Switchgear	TP
	I.B. 36-250-2	Motor Operating Mechanism, Type T2	Switchgear	TP
	I.B. 36-250-3	Motor Operating Mechanism, Type T-3	Switchgear	TP
	I.B. 36-250-1	Type "V" Switches, 7.5 thru 69KV 600 & 1200A, Standard Duty	Switchgear	TP
	I.B. 36-250-4	Type "V" Switches, 7.5 thru 69KV-2000 thru 4000A; Heavy Duty	Switchgear	TP
	I.B. 36-250-5	Type "RL" Switches, 7.5 thru 69KV, 600 & 1200A; Standard Duty	Switchgear	TP
	I.B. 36-250-6	Type "RL" Switches, 69(HD) thru 161KV, 600 & 1200A; Heavy Duty, 5" Bolt Circle Insulators	Switchgear	TP
	†I.L. 36-850-1	Type DBA Fuse Mountings & Units, 7.5 to 138 Kv	Switchgear	TP
37-000 - SWITCHBOARD ACCESSORIES AND DETAILS				
	I.L. 3149	Test Switch, Type M	Switchgear	TP
38-000 - SURGE PROTECTIVE APPARATUS				
	†I.L. 3344-B	Type LVS Autovalve Lightning Arresters, 20,000 to 73,000 Volts Maximum	Switchgear	TP
	I.L. 4114	High Altitude Arresters, Type LVS Autovalve Lightning Arresters for Indoor or Outdoor Service	Switchgear	TP
	†I.L. 38-120-1B	Autovalve Lightning Arresters, Station Type for Indoor or Outdoor Service, Type SV	Switchgear	TP
	†I.L. 38-120-2	Suspended Arresters, Type SV, A-c Circuits, Station Type for Outdoor Service, 145,000 through 195,000 Volts.	Switchgear	TP
	I.L. 38-120-3	High Altitude Type SV Autovalve Lightning Arrester, Indoor and Outdoor Service	Switchgear	TP
	I.L. 38-120-4	Type SVS Autovalve Lightning Arresters with Type PR Pressure Relief Device	Distribution	TP
	I.L. 38-210-1	Wiring Diagram Cabinet Style No. 881 721 for Gas-Filled Protector Tube KX-642.	Switchgear	TP
	†I.L. 38-240-SV-2A	Autovalve Lightning Arresters, Type SV, for Protection of Rotating Machinery	Switchgear	TP

†Leaflets stocked "with envelopes" and "without envelopes."

STANDARD INSTRUCTION BOOKS AND LEAFLETS



APPARATUS CLASS NUMBER INDEX

CLASS NO.	PUBLICATION NUMBER	DESCRIPTION	APPARATUS DIVISION	MAIN STOCK LOCATION
38-800 - CUTOUTS, RECLOSERS, SECTIONALIZERS AND OIL SWITCHES				
I.L.	38-620-1A	Open Drop Out Fuse Cutouts, Type DX	Switchgear	TP
I.L.	38-620-2A	Type DX Load-Break Cutout	Switchgear	TP
I.L.	38-625-1A	Primary Cutouts, Types EA and HC	Switchgear	TP
I.L.	38-695-2	Remote Control Equipment for Type CSO-1 Oil Switch	Switchgear	TP
I.L.	38-700-1	GR Recloser Mounted Arrester	Switchgear	TP
†I.L.	38-710-1	Automatic Recloser, Type 50-GR	Switchgear	TP
†I.L.	38-710-2A	Automatic Recloser, Type 100-GR	Switchgear	TP
I.L.	38-720-1	Automatic Recloser, Type 50-GR-3	Switchgear	TP
I.L.	38-720-2	Automatic Recloser, Type 50-GR-3E	Switchgear	TP
I.L.	38-760-1A	Sectionalizer, Type GRS, Single Pole, 5 to 10A., 15,000 V	Switchgear	TP
I.L.	38-720-3	Automatic Recloser, Type 100-GR3	Switchgear	TP
I.L.	38-720-4	Solenoid Operated Control—Automatic	Switchgear	TP
I.L.	38-725-1	Type 400 PR Recloser	Switchgear	TP
†I.L.	38-810-1	Oil Switch, Type CSO-1	Switchgear	TP
41-000 - PROTECTIVE RELAYS				
I.L.	40-000	Instructions for Special Apparatus	Meter	NA
I.L.	41-000	Protective Relay Schematic Diagram Nomenclature and Symbols	Meter	NA
I.L.	41-076	Relays in Types FT-11, FT-21, FT-22, FT-31, FT-32, FT-41 & FT-42 Cases	Meter	NA
I.L.	41-101-D	Type CO Overcurrent Relay	Meter	NA
I.L.	41-102	Type COM Overcurrent Relay	Meter	NA
I.L.	41-103-A	Type CO Circuit Opening Overcurrent Relay	Meter	NA
I.L.	41-106-A	Type CO 4 Step-Time Overcurrent Relay	Meter	NA
I.L.	41-109	Control Making Ammeter, Type CO	Meter	NA
I.L.	41-111	Multi-range Contact Making Ammeter, Type CO	Meter	NA
I.L.	41-116-A	Type COV Voltage Controlled Overcurrent Relay	Meter	NA
I.L.	41-131-C	Types CR, CRC, CRP & CRD Directional Overcurrent Relay	Meter	NA
I.L.	41-133A	Differential Overcurrent Ground Relay Types IRP, IRC & IRD	Meter	NA
I.L.	41-136.1	Types HR & HRC Directional Overcurrent Relays	Meter	NA
I.L.	41-137A	Types KRP, KRC & KRD Directional Overcurrent Relays	Meter	NA
I.L.	41-151.1	Type D-3 Direct Current Relay	Meter	NA
I.L.	41-161-A	Type COQ Negative Sequence Generator Relay	Meter	NA
I.L.	41-162	Type POQ Negative Sequence Overcurrent Relays	Meter	NA
I.L.	41-163.1	Type CRS Directional Overcurrent Negative Sequence Relay for Ground Protection	Meter	NA
I.L.	41-176	Type HD Current Balance Relay	Meter	NA
I.L.	41-181.1	Type CM Phase Balance Current Relay	Meter	NA
I.L.	41-201-C	Type CV Voltage Relay	Meter	NA
I.L.	41-212.202	Type CV Contact Making Voltmeters	Meter	NA
I.L.	41-207-B	Percentage Differential Relay, Type CAM	Meter	NA
I.L.	41-222.2A	Type CP Reverse Phase Relay	Meter	NA
I.L.	41-226.2A	Types H-3 & HV-3, Three Phase Directional Relays	Meter	NA

†Leaflets stocked "with envelopes" and "without envelopes."



APPARATUS CLASS NUMBER INDEX

CLASS NO.	PUBLICATION NUMBER	DESCRIPTION	APPARATUS DIVISION	MAIN STOCK LOCATION
41-000-PROTECTIVE RELAYS - Continued				
I.L. 41-241.1		Type CW Power, Relay	Meter	NA
I.L. 41-242.1		Types CWC & CWP Directional Ground Relays	Meter	NA
I.L. 41-242.2		Types CWC & CWP Directional Ground Relays	Meter	NA
I.L. 41-251.1		Type CRN-1 Reverse Power Relay	Meter	NA
I.L. 41-255-E		Types CH-3 and CHV-3 Three Phase Power Directional Relay	Meter	NA
I.L. 41-331.1A		Type CA Percentage Differential Relay for Generator Protection	Meter	NA
I.L. 41-332.1C		Type CA Percentage Differential Relay for Transformer Protection	Meter	NA
I.L. 41-334.1A		Type CA-4 Percentage Differential Relay	Meter	NA
I.L. 41-337.1C		Type CA-6 Percentage Differential Relay for Bus & Transformer Protection	Meter	NA
I.L. 41-339.1A		Type CA-5 Percentage Differential Relay for Transformer & Generator Protection.	Meter	NA
I.L. 41-341.1		Type HA Generator Differential Relay	Meter	NA
I.L. 41-342-A		Types LC-1 & LC-2 Linear Coupler Relays	Meter	NA
I.L. 41-346.1A		Type TS1 Magnetizing Inrush Tripping Suppressor for Induction Type Percentage Differential Relays	Meter	NA
I.L. 41-347-B		Types HU & HU-I Transformer Differential Relay	Meter	NA
I.L. 41-367-A		Time Delay Relay, Type TG-1	Meter	NA
I.L. 41-378-A		Rotor Rotation Indicating Relay, Type ND	Meter	NA
I.L. 41-418.2C		Type TSO-2 Out-Of-Step Tripping Relay	Meter	NA
I.L. 41-432.1		Directional Overcurrent Relays, Types HCR and HCRC	Meter	NA
I.L. 41-433.1		Directional Overcurrent Relays, Types HCRD	Meter	NA
I.L. 41-435-B		Type HVS, Single-Phase-to-Ground Fault-Detector Relay	Meter	NA
I.L. 41-466.1B		Type HZ Impedance Relay, Single Z3 Contact-Directional Controlled Timer	Meter	NA
I.L. 41-467.1		Type HZ-3 Impedance Relay	Meter	NA
I.L. 41-468		Type HZ-2 Impedance Relay	Meter	NA
I.L. 41-469.1A		Type HZ-4 Distance Relay	Meter	NA
I.L. 41-471.1A		Type HZM Distance Relay with Offset Transf.-60° to 90°	Meter	NA
I.L. 41-476-B		Type HXS Ground Reactance Relaying System	Meter	NA
I.L. 41-478.1		Type HRZ Directional Impedance Over-current Relay	Meter	NA
I.L. 41-479.1		Type HCZ Impedance Relay	Meter	NA
I.L. 41-481		Type TSO-1 Out-Of-Step Blocking Relay for use with HZM Relays	Meter	NA
I.L. 41-484.1		Type TSO-4 Out-Of-Step Blocking Relay with Offset Transf.-60° to 90°	Meter	NA
I.L. 41-486		Star-Delta Auxiliary Current Transformer.	Meter	NA
I.L. 41-487-A		Single-Phase Auxiliary Current Transformer, Style No. 1066 641	Meter	NA
I.L. 41-487		Single Phase Auxiliary Current Transformer	Meter	NA
I.L. 41-501.1		Type CF-1 Frequency Relay	Meter	NA
Errata #1 to I.L. 41-491A		Types, KD and KD-1 Compensator Distance Relays.	Meter	NA
I.L. 41-491B		Types KD and KD-1 Compensator Distance Relays.	Meter	NA
I.L. 41-492A		Type KS Out-of-Step Blocking Relay	Meter	NA

STANDARD INSTRUCTION BOOKS AND LEAFLETS



APPARATUS CLASS NUMBER INDEX

CLASS NO.	PUBLICATION NUMBER	DESCRIPTION	APPARATUS DIVISION	MAIN STOCK LOCATION
41-000 - PROTECTIVE RELAYS - Continued				
I.L.	41-551.1A	Type CT Temperature Overload Relay . . .	Meter	NA
I.L.	41-536.1B	D-c Auxiliary Tripping Relay, Type TR . .	Meter	NA
I.L.	41-552.1B	Type DT-3 Temperature and Micron Relay .	Meter	NA
I.L.	41-553	Type BL-1 Thermal Overload Relay	Meter	NA
I.L.	41-553.1A	Type BL-1 Thermal Overload Relay	Meter	NA
I.L.	41-572	Type TD Timing	Meter	NA
I.L.	41-573	Type TD-2 Timing Relay	Meter	NA
I.L.	41-574.1B	Type TK Timing Relay	Meter	NA
I.L.	41-577	Type TH Thermal Timing Relay	Meter	NA
I.L.	41-661-C	Type RC Automatic Reclosing Relay	Meter	NA
I.L.	41-662.1	Type SGR-1 Reclosing Relay	Meter	NA
I.L.	41-663.1	Type SGR-12 Automatic Reclosing Relay . .	Meter	NA
I.L.	41-681	Type CI Synchro-Verifier	Meter	NA
I.L.	41-741	Annunciator and Current Indicator, Type		
		Type JM	Meter	NA
I.L.	41-746.1	Type HLF Loss of Field Relay	Meter	NA
I.L.	41-747	Type DGF Generator Field Relay	Meter	NA
I.L.	41-751-B	Type SG Auxiliary Relay	Meter	NA
I.L.	41-751.1B	Type SG Auxiliary Relay in FT-11 & FT-22		
		Cases	Meter	NA
I.L.	41-753.1C	Type MG-6 Multi-Contact Auxiliary Relay .	Meter	NA
I.L.	41-754-A	Type MN Relay	Meter	NA
I.L.	41-758-A	Type TR-1 Relay	Meter	NA
I.L.	41-766.1A	Types SC, SC-1, SV & SV-1 Relays	Meter	NA
I.L.	41-771	Type ITH Relay	Meter	NA
I.L.	41-774	Simultaneous Overcurrent Relay, Types		
		SM-1 and SM-3	Meter	NA
I.L.	41-793	Type CRN Reverse Power Relay for Marine		
		Service	Meter	NA
I.L.	41-856-A	D-c to A-c Inverter	Meter	NA
I.L.	41-861	Type KX Compensator	Meter	NA
I.L.	41-866	Type CJ-2 Capacitor Switching Relay . . .	Meter	NA
I.L.	41-867	Type COJ Capacitor Switching Relay . . .	Meter	NA
I.L.	41-868	Type CJ-4 Capacitor Switching Relay . . .	Meter	NA
I.L.	41-901	Power Line Carrier	Meter	NA
I.L.	41-904-A	Type HZ, HZ-4 or HZM Plate-Keyed Carrier		
		Relay	Meter	NA
I.L.	41-906	Type HKB Carrier Relaying	Meter	NA
I.L.	41-907	Type HKB Carrier Relaying with Type FD		
		Carrier Equipment	Meter	NA
I.L.	41-911	K-DAR Directional Comparison Blocking		
		Systems	Meter	NA
I.L.	41-916.1B	Types HRK & HRP Carrier Directional Over-		
		current Ground Relays (With Type HL-2		
		Directional Element)	Meter	NA
I.L.	41-917.1	Type HRD Carrier Dual Polarized Direc-		
		tional Overcurrent Ground Relay	Meter	NA
I.L.	41-921.1	Types RS and RSN Carrier Auxiliary		
		Relays with Ground Preference for Plate		
		Keyed Carrier Sets	Meter	NA
I.L.	41-922-A	Type CBU Relay Carrier Aux. Unit	Meter	NA
I.L.	41-922.1	Type CBU Carrier Current Auxiliary Unit		
		for Use with Type KR Carrier Set . . .	Meter	NA
I.L.	41-923-A	Type KA Carrier Current Auxiliary Relay .	Meter	NA
I.L.	41-951.1A	Type HKB Relay and Test Equipment for		
		Type FD Carrier	Meter	NA
I.L.	41-953	Type TT-1 Carrier Alarm Relay	Meter	NA
I.L.	41-972.1	Type TSP Magnetizing Inrush Tripping		
		Suppressor, for use with Type HCB		
		Pilot Wire Relays	Meter	NA



APPARATUS CLASS NUMBER INDEX

CLASS NO.	PUBLICATION NUMBER	DESCRIPTION	APPARATUS DIVISION	MAIN STOCK LOCATION
41-000 - PROTECTIVE RELAYS - Continued				
	I.L. 41-962.1	Type SX Toggle Relay	Meter	NA
	I.L. 41-971.1C	Type HCB Pilot Wire Relay System	Meter	NA
	I.L. 41-973.3A	Types PSA, PSD, PS-4, PS-5, PS-13 & PS-23 Pilot Wire Supervisory Relays	Meter	NA
42-000 - METERS				
	I.L. 42-100-B	Watthour Meter Calibration Information .	Meter	RA
	I.L. 42-101	Type DS Single Phase Watthour Meter . . .	Meter	RA
	I.L. 42-101.3	"D" Line Watthour Meter Calibration Information	Meter	RA
	I.L. 42-101.4	Polyphase & Network Watthour Meters Types DSP-2,-7,-8 & DS-5	Meter	RA
	I.L. 42-101.5	Polyphase & Network Watthour Meters Types DAP-2,-7,-8 and DA-5	Meter	RA
	I.L. 42-101.6	Type UMP DSP-2 Watthour Meter	Meter	RA
	I.L. 42-101.12	Type DS Two-Three Wire, etc.	Meter	RA
	I.L. 42-101.20	Type DSP-2,-7,-8 and DS-5 Meters	Meter	RA
	I.L. 42-101.21	Type DAP-2,-7,-8 and DA-5 Meters	Meter	RA
	I.L. 42-102	Type DA Single Phase Watthour Meters . .	Meter	RA
	I.L. 42-104.1B	Switchboard Watthour Meters, Types CB, CB-2 to CB-38	Meter	RA
	I.L. 42-104.3A	Switchboard Watthour Meters in Flexitest Cases, Types CB-F to CB-38F	Meter	RA
	I.L. 42-201.1	Switchboard Meter - New Case	Meter	RA
	I.L. 42-210-A	Polyphase Watthour Meters and Sockets, Types CS-2, CS-5 Meters and ST-2, ST-5, S-5 Sockets	Meter	RA
	I.L. 42-210.1A	Polyphase Socket Watthour Meters, Types CS-3, CS-4, CS-6, CS-7, CS-8, CS-9, CS-10	Meter	RA
	I.L. 42-225-A	Types CA-2 and CA-5 Polyphase Watthour Meters	Meter	RA
	I.L. 42-225-1B	Types CA-3, CA-4, CA-6, CA-7, CA-8, CA-9 and CA-10 Polyphase Watthour Meters . .	Meter	RA
	I.L. 42-300-A	Demand Registers, Installation of Motor Reactance Coils	Meter	RA
	I.L. 42-315-C	Types RW and RW-2 Demand Registers Block Interval Type	Meter	RA
	I.L. 42-315.1D	Portable Test Devices for Demand Regis Registers	Meter	RA
	I.L. 42-337-E	Types CSH and CAH Combination Single- Phase Watthour and Thermal Watt Demand Meters	Meter	RA
	I.L. 42-338-B	Combination Polyphase Watthour and Ther- mal Watt Demand Meters Types CAH-2, CAH-7, CAH-8; Types CSH-2, CSH-5, CSH-7, CSH-8	Meter	RA
	I.L. 42-340-A	Combination Polyphase Watthour and Ther- mal Kva Demand Meters, Types KCA-2, KCA-5, KCA-7, KCA-8	Meter	RA
	I.L. 41-351.1	Type QDS Meters	Meter	RA
	I.L. 41-351.2	Type DSH Meters	Meter	RA
	I.L. 41-351.3	Type DSH Dual Range Meters	Meter	RA
	I.L. 42-413-C	Recording Watt Demand Meters, Types R-2 to R-52	Meter	RA
	I.L. 42-414.1C	Recording Kva Demand Meters, Types RI-2 to RI-38	Meter	RA
	I.L. 42-414.4	Impulse Operated Recording Kva Demand Meter, Type WRI	Meter	RA
	I.L. 42-415.1B	Enclosed Inking System for Recording Meters	Meter	RA



APPARATUS CLASS NUMBER INDEX

CLASS NO.	PUBLICATION NUMBER	DESCRIPTION	APPARATUS DIVISION	MAIN STOCK LOCATION
42-000 - METERS - Continued				
I.L. 42-501.1		Load Survey Recorder Types DSL, DSLD, DAL 120-240 V Service Single and Polyphase	Meter	RA
I.L. 42-520-A		Impulse Operated Metering Apparatus, Type WRA Recording Demand Meter, Type RT Totalizing Relay, Types CD-2, CD-3, and CD-5 Contact Devices	Meter	RA
I.L. 42-520.1A		Impulse Operated Indicating Demand Meters, Types WBF, WB-1F, WB-2F, WB-3F, WB, WB-1, WB-2, WM, WM-1, WM-2, WA, WA-1, WA-2, WA-3, Meters, Type QD Contact Device	Meter	RA
I.L. 42-520.2		Type WS Impulse Storage Relay	Meter	RA
I.L. 42-520.3		Type WD Impulse Differential Relay	Meter	RA
I.L. 42-771.1		Types TDS-111-121 Relay	Meter	RA
I.L. 42-801		Type S Socket	Meter	RA
B-3328		RI Recording Meter Operating Manual	Meter	RA
43-000 - INSTRUMENTS				
I.L. 43-115		Portable Phase Indicator	Meter	NA
I.L. 43-120-D		Portable Instruments, Types PX-4 and PY-4.	Meter	NA
I.L. 43-140-C		Portable Instruments, Type P-14	Meter	NA
I.L. 43-141.2B		Type PM-32 Multi-Range A-c, D-c Volt Ohm Milliammeter	Meter	NA
I.L. 43-145-A		Industrial Analyzer, Type TA	Meter	NA
I.L. 43-200.2C		Exploring Coil Temperature Indicators	Meter	NA
I.L. 43-200.3A		Ground Detector Voltmeters and Differential Voltmeters	Meter	NA
I.L. 43-210-B		S Line, Switchboard Instruments, Seven and One-half Inch Classification	Meter	NA
I.L. 43-220-C		Types DX, DY and DY-2 Instruments	Meter	NA
I.L. 43-230-G		K Line, Switchboard Instruments, Four and One-Half Inch Classification	Meter	NA
I.L. 43-240-F		24 Line, Switchboard Instruments, Four and One-Half Inch Classification, Circular Scale (Original Type)	Meter	NA
I.L. 43-240.2A		24 Line, Switchboard Instruments, Four and One-Half Inch Classification, Full-View Circular Scale Type	Meter	NA
I.L. 43-241		Type 241 Line Switchboard Indicating Instrument	Meter	NA
I.L. 43-249-A		Synchrotie Indicating and Recording Instruments	Meter	NA
I.L. 43-250-B		25 Line, Switchboard Instruments, Six-Inch Classification	Meter	NA
I.L. T-43-250.1		Position Indicator, Type UL-25, Lamp Signal Type	Transformer	TP
I.L. 43-251		Type 251 Line Switchboard Indicating Instrument	Meter	NA
I.L. 43-260		Type 26 Line Switchboard Indicating Instrument	Meter	NA
I.L. 43-300.1		35 and 37 Line, Elapsed Time Meters, Three and One-Half and Four and One-Half Inch Classifications	Meter	NA
I.L. 43-310		31 Line, Panel Instruments, One and One-Half Inch Classification	Meter	NA
I.L. 43-330-F		33 Line, Panel Instruments, Two and One-Half Inch Classification	Meter	NA
I.L. 43-347		Type AX Aircraft Instruments	Meter	NA



APPARATUS CLASS NUMBER INDEX

CLASS NO.	PUBLICATION NUMBER	DESCRIPTION	APPARATUS DIVISION	MAIN STOCK LOCATION
43-000 - INSTRUMENTS - Continued				
	I.L. 43-347.2	A-c Voltmeters, A.A.F. Types C1	Meter	NA
	I.L. 43-347.3	A-c Voltmeters, Type AN3202-1	Meter	NA
	I.L. 43-350	35 Line, Miniature Panel Instruments Three and One-Half Inch Classification.	Meter	NA
	I.L. 43-370	37 Line, Panel Instruments, Four and One-Half Inch Classification	Meter	NA
	I.L. 43-371.1	Type C-371 4 1/2 Inch Motor Load Indication	Meter	NA
	I.L. 43-400	Type G-40 Recording Instruments	Meter	NA
	I.L. 43-405	Type U Recording Instruments	Meter	NA
	I.L. 43-415	Type A Recording Instruments	Meter	NA
	I.L. 43-415.1	Type A Detachable Recording Instruments .	Meter	NA
	I.L. 43-440	Type 44 Strip Chart Recording Instrument	Meter	NA
	I.L. 43-450	Type 45 Round Chart Recording Instrument.	Meter	NA
	I.L. 43-511.1	Type RT-511 Freq-O-Tron Telemetering Transmitter	Meter	NA
	I.L. 43-511.2	Type RR-511 Freq-O-Tron Telemetering Receiver.	Meter	NA
	I.L. 43-561.1	Type FT-561 Current Balance Telemetering Transmitter	Meter	NA
	I.L. 43-600-D	E Line, Detachable Instruments (Seven-Inch Classification)	Meter	NA
	I.L. 43-800	Type A-80 Tachometer Generator	Meter	NA
	I.L. 43-825	Type VR-825 Instrument External Resistor	Meter	NA
	I.L. 43-830-A	Type PC-137 Portable Current Transformer, 25 V.A. Burden	Meter	NA
	I.L. 43-830.1A	Type PC-135 Portable Current Transformer, 10 V.A. Burden	Meter	NA
	I.L. 43-830.2	Portable Potential Transformer, Type PV-130	Meter	NA
	I.L. 43-840	Transducer Type Frequency Meter	Meter	NA
	I.L. 43-850-A	Type G, 50 Millivolt Shunts for D-c Ammeters.	Meter	NA
	I.L. 43-850.1	Type GG Shunts for D-c Ammeters	Meter	NA
44-000 - SPECIALTY TRANSFORMERS				
	I.L. 44-060-1	Accuracy Standards for Current Transformers	Transformer	TP
	I.L. 44-252-1	Oil Immersed Metering Units, Type FMU . .	Transformer	TP
44-500 - DRY TYPE TRANSFORMERS, PRECIPITATION TRANSFORMERS, INSULATING LIQUIDS AND AUXILIARIES				
	I.L. 44-600-1	"AVR" Distribution Transformers, Dry Type.	Transformer	TP
	I.L. 44-640-1	(Title Page Only) Precipitation Transformers, Type SL	Transformer	TP
	I.L. 44-640-2	Precipitation Transformers, Type SL . . .	Transformer	TP
	I.L. 44-640-3A	Precipitation Transformer Core and Coils.	Transformer	TP
	*I.B. 44-820-1B	Wemco C Insulating Oil P.D.S. 2772, for Electrical Apparatus	Switchgear and Transformer	TP
	I.B. 44-860-1	Inerteen Insulating Fluid P.D.S. 7336-9 for Electrical Apparatus	Transformer	TP

*Instruction Books stocked "with covers" and "without covers."



APPARATUS CLASS NUMBER INDEX

CLASS NO.	PUBLICATION NUMBER	DESCRIPTION	APPARATUS DIVISION	MAIN STOCK LOCATION
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45-000 - INSTRUMENT TRANSFORMERS

Note: Other instructions applying to Class 45-000 are listed under Class 46-700.

I.L. 45-100-1A	Oil Immersed Instrument Transformers and Metering Outfits	Transformer	TP
I.L. 45-520-1	Receipt, Storage & Installation of New Furnace Transformers	Transformer	TP

46-000 - DISTRIBUTION TRANSFORMERS

Note: Other instructions applying to Class 46-000 are listed under Classes 46-700, 47-500 and 48-000.

I.B. 5375-D	Distribution Transformers Connection Diagrams.	Transformer	TP
I.B. 46-100-1A	Oil-Immersed Distribution Transformers, Types CSP, SP, CP, S, SM and SB	Transformer	TP
I.B. 46-100-3	Distribution Transformers-Application, Connections and Testing	Transformer	TP
I.L. 46-115-1A	Distribution Transformers, Self-Cooled (Title Page Only)	Transformer	TP
I.L. 46-115-2A	Distribution Transformers, Type SL	Transformer	TP
I.L. 46-115-4B	Sealed Tank Transformers	Transformer	TP
I.L. 46-300-1	(Title Page Only) Air Cooled Transformer, Type ASL.	Transformer	TP
I.L. 46-300-2	Dry Type Transformers, Receiving and Installation	Transformer	TP
I.L. 46-300-3	Transformer Construction, Type ASL	Transformer	TP
I.L. 46-300-4	Dry Type Transformers, Operation and Maintenance	Transformer	TP
I.L. 46-300-5	Dry Type Transformer Bushings	Transformer	TP
I.L. 46-300-6	Dry Type Transformers	Transformer	TP

46-700 - TRANSFORMER ACCESSORIES

I.L. 46-701-1	Parallel Operation by Current Difference Compensation	Transformer	TP
I.L. 46-701-2	Parallel Operation by Current Balance Control Using Paralleling Reactor	Transformer	TP
I.L. 46-701-3A	Parallel Operation of Tap-Changing-Under-Load by Current Balance Control Using Reactance Compensator	Transformer	TP
I.L. 46-701-4	Parallel Operation of TCUL Transformers in Double-Ended Unit Sub-Stations Using "SU" Relay and Line-Drop Compensator	Transformer	TP
I.L. 46-702-2	Parallel Operation of Non-Sequential Tap-Changing-Under-Load by Out-of-Step Switch Control	Transformer	TP
I.L. 46-702-3A	Parallel Operation of Tap-Changing-Under-Load Transformers with Step-by-Step Switch Control	Transformer	TP
I.L. 46-702-4A	Parallel Operation with Step-by-Step Switches For Two TCUL Transformers in Double-Ended Substations	Transformer	TP
I.L. 46-702-5	Parallel Operation of Two TCUL Transformers in Double-Ended Unit Substations Using Out-of-Step Switches	Transformer	TP
I.L. 46-702-6	Parallel Operation of Load Tap Changers	Transformer	TP
I.L. 46-702-7	Parallel Operation of Load Tap Changers	Transformer	TP



APPARATUS CLASS NUMBER INDEX

CLASS NO.	PUBLICATION NUMBER	DESCRIPTION	APPARATUS DIVISION	MAIN STOCK LOCATION
46-700 - TRANSFORMER ACCESSORIES - Continued				
I.L. 46-703-1		Overcompensation Prevention for Load Tap Changers in L.V. Selective or Duplex Type Networks.	Transformer	TP
I.L. 46-710-1		Transformer Open Air Breather	Transformer	TP
I.L. 46-710-2C		Dehydrating Breather	Transformer	TP
I.L. 46-710-3		Sealedaire Equipment Utilizing Mercury Breather.	Transformer	TP
I.L. 46-710-5D		Inertaire Equipment, Types RB and RV	Transformer	TP
I.L. 46-710-6A		Inertaire Equipment, Type RB	Transformer	TP
I.L. 46-710-8B		Limited Pressure Assembly for Transformers	Transformer	TP
I.L. 46-710-9C		Preparing Transformers for Operation by Filling Gas Space with Nitrogen	Transformer	TP
I.L. 46-710-10		Gas Oil Seal Expansion Tank	Transformer	TP
I.L. 46-710-11		Sealedaire Transformers and Equipment	Transformer	TP
I.L. 46-711-4A		Diaphragm Relief Device	Transformer	TP
I.L. 46-711-5		Expansion Tank and Elbow Relief Device for Power Transformers	Transformer	TP
I.L. 46-711-6G		Mechanical Relief Device	Transformer	TP
I.L. 46-711-7		Diaphragm Relief Device	Transformer	TP
I.L. 46-712-1A		Pressure Relief Valve, Style No. 1576 123.	Transformer	TP
I.L. 46-713-2A		Differential Pressure Relay	Transformer	TP
I.L. 46-713-3C		Cork-Neoprene Gaskets, Style No. 7249-9	Transformer	TP
I.L. 46-713-7		DynAC Brake—The Alternating Current Dynamic Brake	Transformer	TP
I.L. 46-714-3D		Liquid Level Indicators, Magnetic Type.	Transformer	TP
I.L. 46-714-5C		Oil Flow Indicator	Transformer	TP
I.L. 46-714-6		Combination Instrument, Fluid-Level-Temperature	Transformer	TP
I.L. 46-714-7		Combination Instrument, Pressure Fluid Level-Temperature	Transformer	TP
I.L. 46-715-1		Flush Type Fluid Gauge	Transformer	TP
I.L. 46-716-1		Dial Type Indicating Thermometers, Non-Submersible	Transformer	TP
I.L. 46-716-2		Temperature Indicator, Two Switch Dial Type	Transformer	TP
I.L. 46-716-3		Temperature Indicator, Three-Switch-Dial Type, Non-Submersible, Remote Indicating	Transformer	TP
I.L. 46-716-4E		Temperature Indicators, Dial Type	Transformer	TP
I.L. 46-716-5E		Temperature Indicator, Two Switch, Dial Type	Transformer	TP
I.L. 46-716-6B		Dial Type Indicating Thermometers, Non-Submersible	Transformer	TP
I.L. 46-717-1		Hottest-Spot Dial Type Thermal Indicator for Transformers	Transformer	TP
I.L. 46-717-2D		Temperature Indicator, Switchboard Hottest Spot Resistance Bridge Type.	Transformer	TP
I.L. 46-717-3B		Temperature Indicator, Hottest Spot Dial Type, Cover-Mounted, Remote-Indicating	Transformer	TP
I.L. 46-717-5		Hottest Spot Thermal Indicator, Thermocouple Type for Dry Type Transformers	Transformer	TP
I.L. 46-717-6B		Temperature Indicator, Hottest Spot Dial Type, Direct-Mounted	Transformer	TP
I.L. 46-717-7		Temperature Relay, Hottest Spot, Two Switch, Direct Mounted	Transformer	TP

STANDARD INSTRUCTION BOOKS AND LEAFLETS



APPARATUS CLASS NUMBER INDEX

CLASS NO.	PUBLICATION NUMBER	DESCRIPTION	APPARATUS DIVISION	MAIN STOCK LOCATION
46-700 - TRANSFORMER ACCESSORIES - Continued				
I.L. 46-717-8B		Temperature Indicator - Switchboard Hottest Spot Bridge Type, Wall Mounted, Fluid Immersed	Transformer	TP
I.L. 46-717-9		Hottest Spot, Thermal Indicator, Bimetal Type, Non-Submersible, Two Switch, Remote Indicating	Transformer	TP
I.L. 46-717-11		Temperature Indicator, Hottest Spot, Dial Type, Non-Submersible, Three Switch, Remote Indicating	Transformer	TP
I.L. 46-717-12		Temperature Indicator Hottest Spot Dial Type, Non-Submersible, Three Switch . .	Transformer	TP
I.L. 46-718-1A		Bulk Type Bushings	Transformer	TP
I.L. 46-718-2		"RJ" Bulk Type Bushings	Transformer	TP
I.L. 46-718-3A		Bulk Type Bushings with Metal-to-Metal Gasket Stop	Transformer	TP
I.L. 46-718-4A		Solderseal Bushings	Transformer	TP
I.L. 46-719-1		ASA Standard Outdoor Condenser Bushings, Types S and CS	Transformer	TP
I.L. 46-719-2A		Outdoor Condenser Bushings, Type S ₁ and OS ₁	Transformer	TP
I.L. 46-719-3A		Outdoor Condenser Bushings, Type "S" . .	Transformer	TP
I.L. 46-719-4A		Replacing Damaged Weather Casing on Types "S" and "OS" Condenser Bushings .		
I.L. 46-719-5		Insulating Head for Transformer Condenser Bushings	Transformer	TP
I.L. 46-719-7A		Types "S" and "OS" Condenser Bushings with Power Factor Testing Terminal . .	Transformer	TP
I.L. 46-720-1A		No-Load Tap Changer, Type TF	Transformer	TP
I.L. 46-720-4A		No-Load Tap Changer, Type WSB-1	Transformer	TP
I.L. 46-720-5A		No-Load Tap Changer, Type WSB-4	Transformer	TP
I.L. 46-721-1		Tap Changer Mechanism Externally Operated.	Transformer	TP
I.L. 46-721-4		Internal Operating Mechanism for Types "RS" and "WBS" Tap Changers	Transformer	TP
I.L. 46-722-2C		Interlocked Motor-Driven Operating Mechanism for No-Load Tap Changers . .	Transformer	TP
I.L. 46-723-1C		Inerteen and Oil Insulated Feeder Switches	Transformer	TP
I.L. 46-723-2B		Switches for Power Center Transformers, Type RLB	Transformer	TP
I.L. 46-723-3A		Load Break Air Switch, Type LCB for Power Centers	Transformer	TP
I.L. 46-723-10		Electrical Interlock, Three-Position Disconnect and Grounding Switch . . .	Transformer	TP
I.L. 46-723-11		Electrical Interlock, Two-Position Grounding Switch	Transformer	TP
I.L. 46-723-12		Electrical Interlock, Three-Position, Mag Break Disconnect and Grounding Switch, Load Interlock to Lock when De-energized	Transformer	TP
I.L. 46-723-13		Electrical Interlock, Three-Position Mag Break Disconnect and Grounding Switch, Load Interlock to Lock when Energized	Transformer	TP
I.L. 46-723-14		Electrical Interlock, Disconnect and Selector Switches, One Interlock Energized from Transformer LV	Transformer	TP
I.L. 46-723-15A		Electrical Interlock, Mag Break Disconnect or Selector Switches, Interlock Locked when De-energized . .	Transformer	TP
I.L. 46-723-16A		Electrical Interlock, Mag Break Disconnect or Selector Switch, Interlock Locked when Energized . . .	Transformer	TP



APPARATUS CLASS NUMBER INDEX

CLASS NO.	PUBLICATION NUMBER	DESCRIPTION	APPARATUS DIVISION	MAIN STOCK LOCATION
46-700 - TRANSFORMER ACCESSORIES - Continued				
	I.L. 46-723-17A	Key-Interlocks.	Transformer	TP
	I.L. 46-725-1A	Terminal Chambers	Transformer	TP
	I.L. 46-727-1A	De-ion Arresters	Transformer	TP
	I.L. 46-728-3C	Field Check of Type "TR", "BR" and "FR" Circuit Breakers in CSP and CSPB		
		Distribution Transformers	Transformer	TP
	I.L. 46-728-5	TRA Relay Forced Air Cooling Control . .	Transformer	TP
	I.L. 46-728-8B	Thermal Relay, Type TRO-1, with Overload Indicating Dial	Transformer	TP
	I.L. 46-729-1B	Radiator Valve for Power Transformers with Detachable Radiators or Coolers. .	Transformer	TP
	I.L. 46-730-1	Rotary Type Sampling Device	Transformer	TP
	I.L. 46-732-1	HCL Detector.	Transformer	TP
	I.L. 46-733-1	"OW" Transformer Cooling Equipment. . .	Transformer	TP
	I.L. 46-734-1B	Westinghouse Radiators	Transformer	TP
	I.L. 46-735-1E	Forced-Air Cooling Equipment Unit Fan Assembly.	Transformer	TP
	I.L. 46-736-7B	Voltage Regulating Relay with Compensator for Step Type Regulators, Style No. 1511 723	Transformer	TP
	I.L. 46-738-1A	Type W Switch for Transformer Equipment .	Transformer	TP
	I.L. 46-740-5	Autovalve Lightning Arresters, Type RM .	Transformer	TP
	I.L. 46-744-2	Unit Circuit Breakers Type AB De-ion Temperature Compensated	Transformer	TP
	I.L. 46-750-1K	Sudden Pressure Relay	Transformer	TP
	I.L. 48-900-1	Tap Changer Type UR for Tap Changing Under Load	Transformer	TP
	I.L. 48-900-3	Plugging Switch for Type UR Tap Changer .	Transformer	TP
	I.L. 48-900-6	Tap Changer Control, Type UR	Transformer	TP
	I.L. 48-900-8	Control for Type URS Tap Changer	Transformer	TP
	I.L. 48-900-11	Equipment for Changing Transformer Taps Under Load, Type URS	Transformer	TP
	I.L. 48-900-12	Control for Type URS Tap Changer.	Transformer	TP
	I.L. 48-900-13	Equipment for Changing Transformer Taps Under Load, Type URS	Transformer	TP
	I.B. 48-901-3A	Equipment for Changing Transformer Taps Under Load, Type "UNK".	Transformer	TP
47-000 - FEEDER VOLTAGE REGULATORS				
	I.B. 5137-H	Automatically Controlled Type C Single- Phase Induction Regulators	P A D	TP
	I.B. 5521-A	Automatically Controlled, Three-Phase Induction Regulators	P A D	TP
	I.B. 5921-A	Induction Voltage Regulators, Type SU . .	P A D	TP
	I.B. 5991	Induction Voltage Regulators, Type SI . .	P A D	TP
	I.L. 47-150-6	Space-Miser Network Transformers	Transformer	TP
	I.B. 47-175-1	Air Cooled Induction Voltage Regulators, Type "SA"	P A D	TP
	I.B. 47-200-1	Three-Phase Automatic, Step-Type Voltage Regulator, Type URS	Transformer	TP
	I.B. 47-310-2	Induction Voltage Regulators, Types SI and STI	P A D	TP
	I.B. 47-310-3	Induction Voltage Regulators, Liquid Immersed, Types SU and SI	P A D	TP
	I.B. 47-310-4	Induction Voltage Regulators, Liquid Immersed, Types ST and STI.	P A D	TP

STANDARD INSTRUCTION BOOKS AND LEAFLETS



APPARATUS CLASS NUMBER INDEX

CLASS NO.	PUBLICATION NUMBER	DESCRIPTION	APPARATUS DIVISION	MAIN STOCK LOCATION
47-000 - FEEDER VOLTAGE REGULATORS - Continued				
I.L. 47-310-5		Induction Voltage Regulators, Liquid Immersed, Single Phase, Types SU & SI	P A D	TP
I.B. 47-410-2		Single-Phase, Automatic, Step-Type Voltage Regulator, Type URS	Transformer	TP
I.B. 47-420-1		Automatic Feeder Voltage Booster Regulator, Type LR	Transformer	SH
I.L. 47-431-6		Voltage Regulating Relay and Time Delay Relays for Load Tap Changers.	Transformer	TP
I.B. 47-431-7A		Voltage Regulating Relay Type CVR, Applied to Step Regulator Control	Transformer	SH
I.B. A47-435-2		Step Voltage Regulator Type URL, Single Phase, Pole Type, with Load Range Selector	Transformer	SH
I.B. 47-435-3		Step Voltage Regulator Type URF, Single Phase Feeder Type with Load Range Selector	Transformer	SH
I.L. 47-500-1A		Insuldur System of Insulation Protection for Power Transformers	Transformer	TP
Advance		Maintenance of Type UR Regulators & Tap Changers	Transformer	SH
F.I.L. 587099-C-1A				

47-000 - POWER TRANSFORMERS

Note: Other instructions applying to Class 48-000 are listed under Classes 46-700, 47-000 and 48-000.

I.L. 3155	Operation and Maintenance of Water-Cooled Transformers	Transformer	SH
I.L. 3157	Water Cooling Coils	Transformer	SH
I.L. 3642	Nofuse Convertible Distribution Panelboards for Power Distribution Units	Transformer	SH
I.L. 47-600-4A	Parallel Operation	Transformer	TP
I.L. 47-600-5B	Installation of Transformers.	Transformer	TP
I.L. 47-600-6	Shipment of Transformers in Oil	Transformer	TP
I.L. 47-600-7B	Shipment of Transformers in Dry Nitrogen.	Transformer	TP
I.L. 47-600-8B	Operation and Maintenance of Self-Cooled Transformers	Transformer	TP
I.L. 47-600-10C	Determination of Dryness and Methods of Drying Out.	Transformer	TP
I.L. 47-600-11C	Gaskets for Liquid Filled Power Transformers.	Transformer	TP
I.L. 47-600-12A	Standard Outside Finish for Westinghouse Oil Insulated Transformer Tanks	Transformer	TP
I.L. 47-600-18B	(Title Page Only) Self-Cooled Power Transformers with Detachable Radiators.	Transformer	TP
I.L. 47-600-21F	Removing and Replacing a Welded-on Cover or a Form-Fit Top Section	Transformer	TP
I.L. 47-600-22	Anti-Friction Bearings Used in Transformer Apparatus	Transformer	TP
I.L. 47-600-23A	Cleaning Transformer Insulation	Transformer	TP
I.L. 47-600-24A	Uprighting Form-Fit Power Transformers.	Transformer	TP
I.L. 47-600-26	Thermosiphon Oil Conditioner	Transformer	TP
I.L. 47-600-27A	Repairing Weld Leaks.	Transformer	TP
I.L. 47-605-1B	Power Transformers, Type SL	Transformer	TP
I.L. 47-606-1A	(Title Page Only) Oil Immersed, Self-Cooled Transformer with Tubular Coolers	Transformer	TP



APPARATUS CLASS NUMBER INDEX

CLASS NO.	PUBLICATION NUMBER	DESCRIPTION	APPARATUS DIVISION	MAIN STOCK LOCATION
47-500 - POWER TRANSFORMERS - Continued				
	I.L. 47-606-2A	(Title Page Only) Oil Immersed, Self-Cooled Air Blast Power Transformers.	Transformer	TP
	I.L. 47-610-1E	Hipersil Core Form Transformers, Type SL.	Transformer	TP
	I.L. 47-620-1A	Form-Fit Shell Form Transformers	Transformer	TP
	I.L. 47-622-1B	Transformer Cooling Equipment "FOA"	Transformer	TP
	I.L. 47-622-2B	Cooling Systems, Type FW	Transformer	TP
	I.L. 47-622-3	Oil Circulating Pumps	Transformer	TP
	I.L. 47-622-4A	Oil Circulating Pumps	Transformer	TP
	I.L. 47-622-4B	Oil Circulating Pumps	Transformer	TP
	I.L. 47-622-5	FOA Transformer Cooling Equipment	Transformer	TP
	I.L. 47-623-1	(Title Page Only) Oil-Immersed Power Transformers with Forced-Oil-To-Air Coolers	Transformer	TP
	I.L. 47-625-1	(Title Page Only) Oil-Immersed Power Transformers, Class FOW	Transformer	TP
	I.L. 47-627-1	(Title Page Only) Oil-Immersed Power Transformers, Class OW.	Transformer	TP
	I.L. 47-629-1	(Title Page Only) Triple-Rated, Oil-Immersed Power Transformer.	Transformer	TP
	I.L. 47-629-2	Triple Rated Oil-Immersed Power Transformers with Detachable Radiators.	Transformer	TP
	I.L. 47-629-3	Power Transformers with Detachable Radiators, Oil Immersed	Transformer	TP
	I.L. 47-629-4	Power Transformers with Detachable Radiators, Double-Rated, Oil Immersed	Transformer	TP
	I.L. 47-728-1	TRA Relay and Control Panel	Transformer	TP
	I.L. 47-800-1	Current-Limiting Reactors, Oil-Immersed	Transformer	TP
	I.L. 47-805-1D	Air Core Reactors, Dry Type	Transformer	TP
	I.L. 47-805-2	Air Core Reactors, Dry Type	Transformer	TP
	I.L. 47-900-1B	(Title Page Only) Oil-Immersed Furnace Transformer	Transformer	TP
	I.L. 47-900-2	Shell-Form Furnace.	Transformer	TP
	I.L. 47-907-1B	Dry Type Transformers for Rectifier Service	Transformer	TP
	I.L. 47-920-1	(Title Page Only) Rectifier Transformers.	Transformer	TP
	I.L. 47-925-1	(Title Page Only) Oil-Immersed, Self-Cooled Grounding Transformers	Transformer	TP
	I.L. 47-925-2	Grounding Transformers, Type SL	Transformer	TP
48-000 - UNIT SUBSTATIONS AND TRANSFORMER EQUIPMENTS				
Note: Other instructions applying to Class 48-000 are listed under Classes 46-700 and 47-000.				
	I.L. 3196	HCL Gas Absorbers for Westinghouse Inerteen Transformers	Transformer	SH
	I.L. 48-100-1B	CSP Power Transformers (Single Circuit Substations)	Transformer	TP
	I.L. 48-100-2	Removal of URS Tap Changer from Compartment of Single Circuit Substation	Transformer	TP
	I.L. 48-100-3	Capacitor Trip Device	Transformer	TP
	I.L. 48-100-6B	Protective Links for CSP Power Transformers	Transformer	TP
	I.L. 48-130-3	Core Form Transformers with Pressure Rings	Transformer	TP
	I.L. 48-130-4A	Type SLS Power Transformer	Transformer	TP
	I.L. 48-200-1	Mobile Substations	Transformer	SH
	I.L. 48-300-1A	Unit Substation Throat Housing	Transformer	TP
	I.L. 48-500-1A	Sealed Dry-Type Transformers	Transformer	TP

STANDARD INSTRUCTION BOOKS AND LEAFLETS



APPARATUS CLASS NUMBER INDEX

CLASS NO.	PUBLICATION NUMBER	DESCRIPTION	APPARATUS DIVISION	MAIN STOCK LOCATION
48-000 - UNIT SUBSTATIONS AND TRANSFORMER EQUIPMENTS - Continued				
I.L. 48-500-3		Sealed Dry-Type Transformers List of Nitrogen Suppliers	Transformer	TP
I.L. 48-550-1		(Title Page Only) Self-Contained Power Centers	Transformer	TP
I.L. 48-585-1		(Title Page Only) Mine Power Centers, Ventilated Dry Type	Transformer	TP
I.L. 48-585-2		Ground Fault Protective Equipment, For Mine Power Centers	Transformer	TP
I.L. 48-600-1		(Title Page Only) Network Transformers.	Transformer	TP
I.L. 48-600-3		Liquid-Filled Network Transformers	Transformer	TP
I.L. 48-600-5		Network Transformer Bushings	Transformer	TP
I.L. 48-600-6A		Inert-Arc Welded Bushings, Types "RFW" and "SSM"	Transformer	TP
I.L. 48-600-8		"RJ" Wall Mounted Bulk Type Bushings.	Transformer	TP
I.L. 48-600-7		Rolled Flange Gasketed Bushings	Transformer	TP
I.L. 48-622-1		FOA Transformer Cooling Equipment, Type A	Transformer	TP
I.L. 48-622-2		FOA Transformer Cooling Control	Transformer	TP
I.L. 48-622-3		OA/FOA/FOA Transformer Cooling Control.	Transformer	TP
I.L. 48-622-4		Automatic Transfer for Cooling Control (Preferred Aux. Supply)	Transformer	TP
I.L. 48-717-15		Temperature Indicator, Hottest Spot Resistance Bridge Type	Transformer	SH
I.L. 48-650-2		(Title Page Only) Self-Cooled Inerteen Transformers	Transformer	TP
I.L. 48-650-3		Inerteen Transformers, Type SL	Transformer	TP
I.L. 48-650-4		Shipment of Transformers in Inerteen	Transformer	TP
I.L. 48-650-5A		Installation of Inerteen Transformers	Transformer	TP
I.L. 48-650-6		Determination of Dryness and Methods of Drying Out Inerteen Transformers	Transformer	TP
I.L. 48-650-7		Operation and Maintenance of Inerteen Transformers	Transformer	TP
I.L. 48-650-8		Standard Outside Finish for Inerteen Transformer Tanks	Transformer	TP
I.L. 48-902-2		A-c Magnetic Brakes Type AK	Transformer	TP
49-000 - CAPACITORS				
I.L. 3897-A		Multiple Unit Dust-Tight Capacitor, Type FP	Switchgear	TP
I.B. 5936-A		Capacitor Potential Devices, Type PCA	Switchgear	TP
I.L. 49-110-2		Outdoor Capacitor Units, Type FP	Switchgear	TP
I.L. 49-110-3		Secondary Distribution Capacitor, Type FPS, Style No. 1594 800	Switchgear	TP
I.B. 49-210-1		Control Equipment for Switching Capacitors Automatically in Response to Changes in Circuit Voltage, Load Current or Load Kilo-var	Switchgear	TP
I.B. 49-220-1		Capacitor Equipment, Indoor and Outdoor, Metal Enclosed	Switchgear	TP
I.B. 49-250		Capacitor Potential Device, Type PCC	Switchgear	TP
I.L. 49-250-1A		Carrier Current Coupling Device, Type PC	Switchgear	TP
I.L. 49-275-1		High Frequency Capacitors, Type FP	Switchgear	TP
I.L. 49-310-1		Autotrol Capacitor Equipment, Open Type	Switchgear	TP
I.L. 49-320-1		Stack Type Outdoor Capacitors for High Voltage Circuits	Switchgear	TP
I.B. 49-610-1		Carrier-Current Coupling Capacitors, Types PC-4 & PC-3	Switchgear	TP
I.B. 49-610-2		Coupling Capacitor Potential Devices, Types PCA-3 & PCA-4	Switchgear	TP



APPARATUS CLASS NUMBER INDEX

CLASS NO.	PUBLICATION NUMBER	DESCRIPTION	APPARATUS DIVISION	MAIN STOCK LOCATION
49-000- CAPACITORS				
	I.L. 49-620-1B	Type MS and MD Carrier Current Line Traps 30-90, 50-150, 70-200 KC	Transformer	TP
	I.L. 49-620-2	Type MS and MD Carrier Current Line Traps 90-300 KC and 50-150/900-300 KC. Transformer		TP
60-000 - STREET LIGHTING				
	I.L. 60-020-1	Refractor and Ring Assembly, OV-20	Lighting	CL
	I.L. 60-020-2A	Socket Extension Bracket for 250-Watt Mercury Lamp in OV-20 Luminaire	Lighting	CL
	I.L. 60-030-1	Luminaire, Type OV-20, Wiring Details for E-H1 400-Watt Mercury Vapor Lamp	Lighting	CL
	I.L. 60-030-2A	Luminaire, Type OV-20, Wiring Details for C-H5 250-Watt Mercury Vapor Lamp	Lighting	CL
	I.L. 60-030-3	Luminaire, Type OV-20, Wiring Details for A-H1 400-Watt Mercury Vapor Lamp	Lighting	CL
	I.L. 60-031-1	Luminaire, Type OV-60	Lighting	CL
	I.L. 60-032-1	Universal Metal Head Side Mounting with Heat Barrier Bushing	Lighting	CL
	I.L. 60-032-2	Shield Assembly for the OV-18 Reflector.	Lighting	CL
	I.L. 60-032-3B	Type AP-12 Photo Control System	Lighting	CL
	I.B. 60-106-1B	Constant Current Regulators	Transformer	TP
60-900 - AIRPORT LIGHTING				
	§I.L. 60-932-1A	Junior Rotating Beacon	Lighting	CL
	I.L. 60-960-1	Runway Marker (Contact) Light	Lighting	CL
	§I.L. 60-961-1	Installation of AN-L-9 Top Assembly on Westinghouse C.A.A. Type Base, using Adapter Ring Style No. 1219 821	Lighting	CL
	I.L. 60-961-2	Flush Runway Marker Light	Lighting	CL
	I.L. 60-962-1	High Intensity Runway Lights, Type HL.	Lighting	CL
	I.L. 60-963-1	Runway Lights, High Intensity, Type BHI.	Lighting	CL
	I.L. 60-965-2A	Elevated Runway, Strip and Taxiway Marker Lights, Type LD	Lighting	CL
	§I.B. 60-967.1	Approach Angle Indicator	Lighting	CL
	I.B. 60-970-1	Ceiling Light Projector, 16-Inch	Lighting	CL
	I.L. 60-973-1A	Junior Wind Cone	Lighting	CL
	I.L. 60-973-2	Wind Cone, Designed to Meet Specification AN-I-23	Lighting	CL
	§I.B. 60-980-3	Constant Current Regulators for Airport Lighting	Lighting	CL
	I.L. 60-982-3	Circuit Selector Cabinet Assemblies for 600-Volt Series Circuits	Lighting	CL
	I.L. 60-982-4	Circuit Selector Cabinet Assemblies for Multiple Circuits not over 600 Volts, 50-60 Cycles, not over 25 Amperes	Lighting	CL
	I.L. 60-994-1	18-Inch Marine Type Searchlight	Lighting	CL
	I.L. 60-994-2	24-Inch Marine Type Searchlight	Lighting	CL
61-000 - COMMERCIAL, INDUSTRIAL AND FLOODLIGHTING				
	§I.L. 3124	Luminaires, Types MB and GB	Lighting	CL
	I.L. 3308-B	Westinghouse Magnalux Luminaires	Lighting	CL
	I.L. 3309	Westinghouse Magnalux Luminaires	Lighting	CL

STANDARD INSTRUCTION BOOKS AND LEAFLETS



APPARATUS CLASS NUMBER INDEX

CLASS NO.	PUBLICATION NUMBER	DESCRIPTION	APPARATUS DIVISION	MAIN STOCK LOCATION
61-000 - COMMERCIAL, INDUSTRIAL AND FLOODLIGHTING - Continued				
I.L. 3462		Floodlights, Types CAK-14 and CAK-16. . .	Lighting	CL
I.B. 7231-C		Commercial Fluorescent Luminaires, Type LW-80.	Lighting	CL
I.L. 61-130-1		Fluorescent Luminaire Commercial Rapid Start and Fluorescent Slimline, Types LC-76, -80, -80R, 2LC-80, 80R, LC-150, -152, -160, -160R, 2LC-160, 2LC-160R, LC-300	Lighting	CL
I.L. 61-130-2		Shallow Traffer Luminaires, Commercial Fluorescent Types TU-76, TU-80, TU-80R, TU-120, TU-150	Lighting	CL
I.L. 61-130-3		Plaster Frames for Type TU Troffers . .	Lighting	VI
I.L. 61-130-4		Bare Lamp Luminaires, Commercial Fluorescent Types BB-152, BB-160, BB-121, BB-300	Lighting	CL
I.L. 61-130-5		Aluminum Hangers for use with Types CR-200, -500, -1000 - PL-500-Magnalux 200, -500	Lighting	CL
I.L. 61-130-6		Suspension Hangers for Fluorescent Luminaires, Single Stem, Single with Slide, NS Twin Stem	Lighting	CL
I.L. 61-130-7		Fluorescent Luminaire, Types XX-80MR; XX-160 MR, Commercial Rapid Start . .	Lighting	VI
I.L. 61-130-9		Fluorescent Troffer Luminaire, Types TU-76G, 80G, -80GR, -120GR, -150G & 225G	Lighting	VI
I.L. 61-150-8.1A		Mainliner Luminaires, Surface & Recess Mtg. - Fluorescent, Rapid Start & Slimline Lamps.	Lighting	VI
I.L. 61-230-1		Recessed High-Bay Luminaire, Plaster Frame and Trim Ring Assembly	Lighting	CL
I.L. 61-230-2A		Slimline Luminaire, Commercial Fluorescent, Types CC-76, CC-116, CC-152 and CC-232	Lighting	CL
I.L. 61-232-1G		Fluorescent Luminaire, Commercial Fluorescent and Slimline Types CC-80, CC-160, CC-150 and CC-300	Lighting	CL
I.L. 61-233-1C		Commercial Luminaire, Type CD-80 . . .	Lighting	CL
I.L. 61-233-2A		Slimline Luminaire, Types CD-76, CD-116, CD-150.	Lighting	CL
I.L. 61-233-3		Slimline Luminaire, Types CD-152, CD-232, CD-300.	Lighting	CL
I.L. 61-234-1C		Commercial Luminaire, Type LW-160 . . .	Lighting	CL
I.L. 61-235-1C		Commercial Luminaire, Type CD-160 . . .	Lighting	CL
I.L. 61-242-1A		Traffer Luminaires, Commercial Fluorescent Types TR-40, 2TR-40, TR-80, TR-100, 2TR-100	Lighting	CL
I.L. 61-243-1C		Shallow Troffer Luminaires.	Lighting	CL
I.L. 61-244-1C		Commercial Luminaires, Types CS-160 and CS-170.	Lighting	CL
I.L. 61-244-2B		Swiveling Spotlight, Type 2SS-150 Incandescent	Lighting	CL
I.L. 61-245-1C		Fluorescent Luminaire, Commercial Fluorescent and Fluorescent Slimline, Types SC-76, SC-80, SC-116, SC-150, SC-152, SC-160, SC-232, SC-300 . . .	Lighting	CL
I.L. 61-246-1		Commercial Fluorescent Luminaires, Types CP-160 and CP-200	Lighting	CL
I.L. 61-248-1A		Commercial Fluorescent Luminaire, Type CS-80	Lighting	CL
I.L. 61-248-2		Swiveling Spotlight, Type SS-150 . . .	Lighting	CL



APPARATUS CLASS NUMBER INDEX

CLASS NO.	PUBLICATION NUMBER	DESCRIPTION	APPARATUS DIVISION	MAIN STOCK LOCATION
61-000 - COMMERCIAL, INDUSTRIAL AND FLOODLIGHTING - Continued				
	I.L. 61-250-1B	Bare Lamp Luminaires, Commercial Fluorescent Types BB-76, BB-80, BB-116, BB-150.	Lighting	CL
	I.L. 61-257-1	Slimline Luminaire, Type CS-276	Lighting	CL
	I.L. 61-260-1A	Single Stem Hanger for Continuous Row Mounting.	Lighting	CL
	I.L. 61-260-2C	Twin Stem Hanger.	Lighting	CL
	I.L. 61-260-3	Twin Stem Hanger, Type NS	Lighting	CL
	I.L. 61-330-7	Type WS-8 Floodlights	Lighting	CL
	I.L. 61-858-1	Floodlights, Types VRC-18 and 20 . . .	Lighting	CL
	I.B. 61-2760-1A	Commercial Fluorescent Luminaires, Types CL-80 and CL-120	Lighting	CL
	I.B. 61-2780-A	Fluorescent Luminaires, Type 2CL-40 . .	Lighting	CL

81-000 - RADIO BROADCASTING AND COMMUNICATION EQUIPMENT

This line of apparatus is no longer standard with the Company.

82-000 - POINT-TO-POINT COMMUNICATION

This equipment is manufactured mainly for military purpose.

83-000 - HEAVY DUTY RADIO EQUIPMENT

The products falling under this category and manufacturing rights have been disposed of to the Sperry Company.

83-000 - TYPE FR AND FJ MICROWAVE COMMUNICATIONS EQUIPMENT

Responsibility for this product line has been transferred to the Power Line Microwave Department of the Switchgear Division, East Pittsburgh, Pa.

84-000 - POWER LINE CARRIER COMMUNICATIONS EQUIPMENT

Responsibility for this product line has been transferred to the Power Line Microwave Department of the Switchgear Division, East Pittsburgh, Pa.

85-000 - INDUSTRIAL ELECTRONIC DEVICES

The responsibility for the products coming under the Industrial Electronics Devices has been split between three operations of the Company - the radio frequency heating equipment is the responsibility of the Industrial Electronic and X-Ray Department; the balancing equipment has been transferred to the Buffalo Works; and the vibration analysis equipment has been made a part of the Steam Division product line.

300-000 - MEDICAL X-RAY EQUIPMENT

400-000 - INDUSTRIAL X-RAY EQUIPMENT

Responsibility for all x-ray apparatus is with the Industrial Electronic and X-Ray Department.

STANDARD INSTRUCTION BOOKS AND LEAFLETS



NUMERICAL INDEX

PUBLICATION NUMBER CROSS-REFERENCE TO APPARATUS CLASS NUMBERS
AND PAGES WHERE RESPECTIVE INSTRUCTION LITERATURE IS LISTED

PUBLICATION NUMBER	APPARATUS CLASS NO. PAGE	PUBLICATION NUMBER	APPARATUS CLASS NO. PAGE	PUBLICATION NUMBER	APPARATUS CLASS NO. PAGE
I.L. 366-1	366 5	I.L. 1782-B	19-000 18	I.L. 3083-B	31-600 20
I.L. 366-2	366 5	I.L. 1786-E	12-000 13	I.L. 3100-CSP-1A . .	3100 7
I.L. 366-3	366 5	I.L. 1867-B	8500-9500 12	I.L. 3100-1-CSP-1C .	3100 7
I.L. 366-4	366 5	I.L. 1876-E	3000 6	I.L. 3100-1A-CSP-1 .	3100 7
I.L. 366-5	366 5	I.L. 1878-C	15-000 14	I.L. 3100-2A	3100 7
I.L. 366-6	366 5	I.L. 1881-K	3100 7	I.L. 3100-3-CSP-1D .	3100 7
I.L. 366-7	366 5	I.L. 1882-D	15-800 15	I.L. 3100-4	3100 7
I.L. 366-8-A	366 5	I.L. 1917-B	15-800 15	I.L. 3100-5	3100 7
I.L. 366-9	366 5	I.L. 1933-B	3200 7	I.L. 3100-6	3100 7
I.L. 367-1	367 5	I.L. 1944-D	15-800 15	I.L. 3100-7	3100 7
I.L. 367-2	367 5	I.L. 1985-C	3800 8	I.L. 3100-9-CSP-1D .	3100 7
I.L. 367-3	367 5	I.L. 2026	19-000 18	I.L. 3100-11	3100 7
I.L. 367-4	367 5	I.L. 2040-D	8500-9500 12	I.L. 3100-12A	3100 7
I.L. 367-5	367 5	I.L. 2043	19-000 18	I.L. 3108	36-000 23
I.L. 367-6	367 5	I.L. 2082-A	5000 12	I.L. 3109	36-000 23
I.L. 367-7	367 6	I.L. 2091-D	15-800 15	I.L. 3115	3820 11
I.L. 367-8	367 6	I.L. 2103-A	5200 12	I.L. 3116	3820 11
I.L. 368-1A	368 6	I.L. 2133-A	5200 12	I.L. 3124	61-000 37
I.L. 368-2	368 6	I.L. 2134-B	5200 12	I.L. 3143-B	5200 12
I.L. 368-3A	368 6	I.L. 2142-D	15-800 15	I.L. 3148-A	15-800 15
I.L. 368-4A	368 6	I.L. 2161-1	5800 12	I.L. 3149	37-000 23
I.L. 368-5A	368 6	I.L. 2162-B	15-000 14	I.L. 3155	47-500 34
I.L. 369-1	369 6	I.L. 2170-D	15-800 15	I.L. 3157	47-500 34
I.L. 369-2	369 6	I.L. 2176-A	15-000 14	I.L. 3196	48-000 35
PC-646-A	27-000 19	I.L. 2188-A	8500-9500 12	I.L. 3200-1	3200 7
PC-647	27-000 19	I.L. 2203-A	366 5	I.L. 3200-2A	3200 7
PC-769	27-000 19	I.L. 2208-A	7000-8499 12	I.L. 3254-A	15-800 15
I.L. 991-A	10-000 13	I.L. 2209-A	7000-8499 12	I.L. 3283-B	15-800 15
I.L. 945-D	15-800 15	I.L. 2211-A	7000-8499 12	I.L. 3286	19-000 18
I.B. 1300-FA-1 . .	3400 8	I.L. 2212-A	7000-8499 12	I.L. 3287	2000 6
I.L. 1364-E	3500 8	I.L. 2213-B	7000-8499 12	I.L. 3307-A	2000 6
I.L. 1414-E	15-800 15	I.L. 2214-B	12-000 13	I.L. 3308-B	61-000 37
I.L. 1421-H	5200 12	I.L. 2263-A	15-000 14	I.L. 3309	61-000 37
I.L. 1422-F	5200 12	I.L. 2299-C	14-500 14	B-3328	42-000 28
I.L. 1468-B	28-000 19	I.L. 2302-E	15-800 15	I.L. 3342-B	18-000 18
I.L. 1477-D	2000 6	I.L. 2303-E	15-800 15	I.L. 3344-B	38-000 23
I.L. 1493-G	15-800 15	I.L. 2307-F	15-800 15	I.L. 3413-A	15-800 15
I.L. 1518-B	10-000 13	I.L. 2315	15-000 14	I.L. 3437	31-600 20
I.L. 1541-C	10-000 13	I.L. 2338-A	19-000 18	I.L. 3438-A	31-600 20
I.L. 1542	10-000 13	I.L. 2405-D	15-800 15	I.L. 3448-A	15-800 15
I.L. 1588-E	7000-8499 12	I.L. 2406-A	15-800 15	I.L. 3462	61-000
I.L. 1598-C	15-800 15	I.L. 2442-D	26-000 18	I.L. 3487-C	15-800 15
I.L. 1627-G	10-000 13	I.L. 2546-D	15-800 15	I.L. 3496	18-000
I.L. 1628-C	10-000 13	I.L. 2556	19-000	I.B. 3500-AV9	4900 11
I.L. 1675-E	15-800 15	I.L. 2671-A	15-800 15	I.B. 3500-AV10 . . .	4900 11
I.L. 1694-D	4700 11	I.L. 2672-B	15-000 14	I.B. 3500-AV11 . . .	4900 12
I.L. 1697-G	3500 8	I.L. 2827	15-800 15	I.L. 3500-1-SK-1A . .	3500 8
I.L. 1733-C	14-500 14	I.L. 3000-CRP-1 . .	3000 6	I.L. 3500-1-SK-2A . .	3500 8
I.L. 1734-D	14-500 14	I.L. 3000-1-CAP-1B .	3000 7	I.L. 3500-4	3500 8
I.L. 1778-F	15-800 15	I.L. 3000-2	3000 7	I.L. 3500-5-SK-1A . .	3500 8



NUMERICAL INDEX

PUBLICATION NUMBER	APPARATUS CLASS NO.	PAGE	PUBLICATION NUMBER	APPARATUS CLASS NO.	PAGE	PUBLICATION NUMBER	APPARATUS CLASS NO.	PAGE
I.L. 3500-6-SK-1A	3500	8	I.B. 5133-H	300	5	I.L. 6000-NDH, NDHE-1	3810	9
I.L. 3583-D	26-000	18	I.B. 5137-H	47-000	33	I.L. 6000-PLN-1	3810	9
I.B. 3600-1B	3600	8	I.B. 5155-I	31-600	20	I.L. 6000-Resis- tors-1	3810	9
I.L. 3605	5200	12	I.B. 5197-B	13-000	14	I.L. 6000-SM-1	3810	9
I.L. 3642	47-500	34	I.L. 5220-1	5200	12	I.L. 6000-SMP-1	3810	9
I.L. 3685	31-600	20	I.B. 5235-C	33-000	21	I.L. 6100-1	3810	9
I.B. 3700-SR-1A	3700	8	I.B. 5241-G	33-700	22	I.L. 6100-62F5/ 65F5-1	3810	9
I.B. 3700-SU-1A	3700	8	I.B. 5331-B	33-000	21	I.L. 6100-201/202/ 204	3810	9
I.L. 3800-1	3800	8	I.B. 5375-D	46-000	30	I.L. 6100-241/ 242SM-1	3810	10
I.L. 3810-1A	3810	8	I.B. 5403-C	33-700	22	I.L. 6100-AQ-1	3810	10
I.L. 3810-2A	3810	8	I.B. 5412	335	5	I.L. 6100-AQZ-1	3810	10
I.L. 3810-100	3810	8	I.B. 5441-D	33-000	21	I.L. 6100-HI-1	3810	10
I.L. 3810-101A	3810	9	I.B. 5502-E	33-000	21	I.L. 6100-L46-1A	3810	10
I.L. 3820-1	3820	11	I.B. 5521-A	47-000	33	I.L. 6100-L47-1	3810	10
I.L. 3820-3	3820	11	I.L. 5600-47	4700	11	I.L. 6100-M-010/ 110/210-1	3810	10
I.L. 3830-1	3830	11	I.B. 5655-F	33-000	21	I.L. 6100-M-011/ 111/211-1	3810	10
I.L. 3830-2	3830	11	I.B. 5674-B	31-600	20	I.L. 6100-M-020/ 120/220-1	3810	10
I.L. 3830-3	3830	11	I.B. 5678-A	33-000	21	I.L. 6100-SMP-1	3810	10
I.L. 3838	12-000	13	I.B. 5683-B	1000	6	I.L. 6100-TI-2-1	3810	10
I.L. 3872-A	2000	6	I.B. 5709-3	33-000	21	I.L. 6310-1	3810	10
I.L. 3873-A	2000	6	I.B. 5772-A	33-700	22	I.L. 6550-1	3810	10
I.L. 3880-1	3880	11	I.B. 5794-C	35-000	22	I.L. 6555-1	3810	10
I.L. 3882-E	3500	8	I.B. 5816	33-000	21	I.L. 6565-1	3810	10
I.L. 3897-A	49-000	36	I.B. 5921-A	47-000	33	I.L. 6850-1B	3810	10
I.L. 3905-A	3810	9	I.B. 5929-B	33-000	21	I.L. 6855-1	3810	10
I.L. 3906-A	15-000	14	I.B. 5936-A	49-000	36	I.L. 6865-1	3810	10
I.L. 3913	35-000	22	I.B. 5938-A	4700	11	I.L. 7000-1	8500-9500	12
I.B. 4000-A	4600	11	I.B. 5943-A	33-700	22	I.L. 7000-2	8500-9500	12
I.L. 4021	14-000	14	I.B. 5965-F	33-700	22	I.B. 7085	11-000	13
I.L. 4114	38-000	23	I.B. 5991	47-000	33	I.B. 7099-A	3400	8
I.L. 4145	369	6	I.L. 6000-1	3810	9	I.B. 7219	330	5
I.L. 4157-A	300	5	I.L. 6000-80-C-12-1	3810	9	I.B. 7231-C	61-000	38
I.L. 4230	15-800	15	I.L. 6000-201/202- NSM-1	3810	9	I.B. 7240-A	310	5
I.L. 4232	366	5	I.L. 6000-204-NSM-1	3810	9	I.B. 7241	331	5
I.L. 4235	4700	11	I.L. 6000-241/242- NSM-1	3810	9	I.L. 7460	3600	8
I.L. 4267	4700	11	I.L. 6000-ADN-1	3810	9	I.B. 7890	370	6
I.L. 4299-A	10-000	13	I.L. 6000-HIN-1	3810	9	I.B. 7891	370	6
I.L. 4332	2000	6	I.L. 6000-HSN-1	3810	9	I.B. 7892	370	6
I.L. 4330	2000	6	I.L. 6000-IAQ-1	3810	9	I.L. 8518-1	8500-9500	12
I.L. 4437	15-800	15	I.L. 6000-IAQZ-1	3810	9	I.L. 8522-1A	8500-9500	12
I.L. 4439	15-800	15	I.L. 6000-IDN #00-1	3810	9	I.L. 8590-A-1	3810	10
I.L. 4444	369	6	I.L. 6000-IDN #0/1- 1B	3810	9	I.L. 8591-C-1	3810	10
I.L. 4447-A	33-000	21	I.L. 6000-IDN #2/3-1	3810	9	I.B. 8591-CPL-2	3810	10
I.L. 4500-1	4500	11	I.L. 6000-IFN-1	3810	9	I.L. 9022-1A	8500-9500	12
I.L. 4500-2	4500	11	I.L. 6000-IFN #4/5/6 1A	3810	9	I.B. 9500-1B	8500-9500	12
I.B. 4500-50	4500	11	I.L. 6000-IG-1	3810	9	I.L. 9810-1	12-000	14
I.L. 4535-B	367	6	I.L. 6000-IM #0.1	3810	9	I.L. 10222	18-900	18
I.L. 4656	18-900	18	I.L. 6000-IM #1/2/3/4-1	3810	9	I.L. 10225	18-900	18
I.L. 4700-1A	4700	11	I.L. 6000-L39-1	3810	9			
I.B. 4700-50	4700	11	I.L. 6000-MI-1B	3810	9			
I.L. 4833-B	15-000	14						
I.L. 4839-B	29-000	19						
I.L. 4840-A	29-000	19						
I.B. 4900-AV67	4900	12						
I.B. 4900-AV68	4900	12						

STANDARD INSTRUCTION BOOKS AND LEAFLETS



NUMERICAL INDEX

PUBLICATION NUMBER	APPARATUS CLASS NO.	PAGE	PUBLICATION NUMBER	APPARATUS CLASS NO.	PAGE	PUBLICATION NUMBER	APPARATUS CLASS NO.	PAGE
I.L. 10226	18-900	18	I.L. 13-900-1 . .	13-000	14	I.L. 15-827-DP-1 .	15-800	17
I.L. 10234-D . . .	15-800	15	I.L. 13-910-1 . .	13-000	14	I.L. 15-827-HC-1 .	15-800	17
I.L. 10245-A . . .	15-800	15	I.L. 14-000-1-B .	14-000	14	I.L. 15-829-1A . .	15-800	17
I.L. 10246-A . . .	15-800	15	I.L. 14-212-1 . .	14-000	14	I.L. 15-829-2 . .	15-800	17
I.L. 10247-A . . .	15-800	15	I.L. 14-515-1 . .	14-500	14	I.L. 15-829-3 . .	15-800	17
I.L. 10248-A . . .	15-800	16	I.L. 14-516-2 . .	14-500	14	I.L. 15-829-4 . .	15-800	17
I.L. 10249-A . . .	15-800	16	I.L. 15-075-1 . .	15-000	14	I.L. 15-829-L46-1C	15-800	17
I.L. 10250-A . . .	15-800	16	I.L. 15-075-2 . .	15-000	14	I.L. 15-829-L47-1A	15-800	17
I.L. 10410-B . . .	11-000	13	I.L. 15-075-3 . .	15-000	15	I.L. 16-600-1A . .	14-500	14
I.L. 10413-B . . .	11-000	13	I.L. 15-075-4A . .	15-000	15	I.L. 16-621-A . .	14-500	14
I.L. 10570-A . . .	29-000	19	I.L. 15-085-1-B .	15-000	15	I.L. 17-400-1 . .	17-000	17
I.L. 10571-C . . .	29-000	19	I.L. 15-110-1 . .	15-000	15	I.L. 17-700-1 . .	17-000	17
I.L. 10572-B . . .	29-000	19	I.L. 15-516-3 . .	14-500	14	I.L. 17-825-1 . .	17-000	17
I.L. 10574-B . . .	11-000	13	I.L. 15-800-1B . .	15-800	16	I.L. 17-825-2 . .	17-000	17
I.L. 10-600-8 . . .	10-000	13	I.L. 15-800-2A . .	15-800	16	I.B. 18-110-9 . .	18-000	18
I.L. 10-600-10 . .	10-000	13	I.L. 15-800-3B .			I.B. 18-110-24 . .	18-000	18
I.L. 10707-A . . .	15-800	16	122/222-1A . .	15-800	16	I.B. 18-210-3 . .	18-000	18
I.L. 10708-B . . .	15-800	16	I.L. 15-800-HQ-1A.	15-800	16	I.B. 18-210-4 . .	18-000	18
I.L. 11-000-1 . . .	11-000	13	I.L. 15-800-M-001/			I.B. 18-310-1 . .	18-000	18
I.L. 11006	3810	10	101/201-1 . .	15-800	16	I.B. 18-334-HC-1 .	18-000	18
I.L. 11007	3810	10	I.L. 15-800-M-010/			I.B. 18-513-4 . .	18-000	18
I.L. 11008	3810	10	110/210-1B . .	15-800	16	I.B. 18-513-6 . .	18-000	18
I.L. 11011	29-000	19	I.L. 15-800-M-011/			I.B. 18-513-9 . .	18-000	18
I.L. 11014-A . . .	29-000	19	111/211-1A . .	15-800	16	I.B. 18-530-2 . .	18-000	18
I.L. 11015-A . . .	29-000	19	I.L. 15-800-M-020/			I.B. 18-530-5 . .	18-000	18
I.L. 11016-A . . .	29-000	19	120/220-1B . .	15-800	16	I.B. 18-530-6 . .	18-000	18
I.L. 11017-A . . .	29-000	19	I.L. 15-800-M-021/			I.B. 18-600 . . .	18-000	18
I.L. 11095	15-800	16	121/221-1A . .	15-800	16	I.B. 18-600-30 . .	18-000	18
I.L. 11103	15-000	14	I.L. 15-800-M-022/			I.B. 18-600-31 . .	18-000	18
I.L. 11113	11-000	13	122/222-1A . .	15-800	16	I.L. 19-030-5 . .	19-000	18
I.L. 11119	11-000	13	I.B. 15-823-1A . .	15-800	16	I.L. 19-052-1 . .	19-000	18
I.L. 11141	15-000	14	I.L. 15-825-1 . .	15-800	16	I.L. 26-150-4 . .	26-000	18
I.L. 11192-D . . .	15-800	16	I.L. 15-825-2A . .	15-800	16	I.L. 26-150-5 . .	26-000	18
I.L. 11-202-1 . . .	11-000	13	I.L. 15-825-5B . .	15-800	16	I.L. 26-350-1 . .	26-000	19
I.L. 11-400-1A . .	11-000	13	I.L. 15-825-7 . .	15-800	16	I.L. 26-400-1 . .	26-000	19
I.L. 11-408-1B . .	11-000	13	I.L. 15-825-8 . .	15-800	16	I.L. 26-400-6 . .	26-000	19
I.L. 11542-A . . .	29-000	19	I.L. 15-825-122- FDH	15-800	17	I.L. 26-400-7 . .	26-000	19
I.L. 11548-C . . .	15-800	16	I.L. 15-825-FDH .	15-800	17	I.B. 26-736-SEQ-1.	18-900	18
I.L. 11567	29-000	19	I.L. 15-825-FDHB .	15-800	17	I.B. 31-255 . . .	31-600	20
I.L. 11568	29-000	19	I.L. 15-825-L44-1.	15-800	17	I.B. 31-260-CS-1A.	31-600	20
I.L. 11-600-1 . . .	11-000	13	I.L. 15-827-1-AP .	15-800	17	I.B. 31-280-1 . .	31-600	20
I.L. 11641-B . . .	29-000	19	I.L. 15-827-2-AQ .	15-800	17	I.B. 31-651-2 . .	31-600	20
I.L. 11642	29-000	19	I.L. 15-827-3- AQZ-A	15-800	17	I.L. 31-674 . . .	31-600	20
I.L. 11-700-1A . .	11-000	13	I.L. 15-827-4-AYC.	15-800	17	I.L. 31-687 . . .	31-600	20
I.L. 11796	29-000	19	I.L. 15-827-5-AYJ.	15-800	17	I.L. 31-690 . . .	31-600	20
I.L. 11822	29-000	20	I.L. 15-827-6-AYV.	15-800	17	I.B. 31-850-2 . .	31-600	20
I.L. 11823	11-000	13	I.L. 15-827-7-AZ-A	15-800	17	I.B. 32-100-1A . .	32-000	20
I.L. 11910-B . . .	29-000	19	I.L. 15-827-8 . .	15-800	17	I.B. 32-150-3A . .	32-000	20
I.L. 11911-B . . .	29-000	20	I.L. 15-827-9 . .	15-800	17	I.B. 32-150-4A . .	32-000	20
I.L. 11927	29-000	20	I.L. 15-827-10 . .	15-800	17	I.B. 32-160-1A . .	32-000	20
I.L. 11928	29-000	20	I.L. 15-827-11A .	15-800	17	I.B. 32-251-1A . .	32-000	20
I.L. 12-300-1 . . .	12-000	14	I.L. 15-827-12 . .	15-800	17	I.B. 32-251-3 . .	32-000	20
I.L. 13-100-1 . . .	13-000	14	I.L. 15-827-13 . .	15-800	17	I.B. 32-251-4 . .	32-000	20
I.L. 13-300-1 . . .	13-000	14	I.L. 15-827-15 . .	15-800	17	I.B. 32-410-1 . .	32-000	20
I.L. 13-626-1 . . .	13-000	14				I.B. 33-125-1A . .	33-000	21



NUMERICAL INDEX

PUBLICATION NUMBER	APPARATUS CLASS NO.	PAGE	PUBLICATION NUMBER	APPARATUS CLASS NO.	PAGE	PUBLICATION NUMBER	APPARATUS CLASS NO.	PAGE
I.B. 33-125-2A . . .	33-000	21	I.L. 36-162 . . .	36-000	23	I.L. 41-242.2 . . .	41-000	25
I.B. 33-125-C2 . . .	33-000	21	I.B. 36-250-1 . . .	36-000	23	I.L. 41-251.1 . . .	41-000	25
I.B. 33-125-C3C . . .	33-000	21	I.B. 36-250-2 . . .	36-000	23	I.L. 41-255-E . . .	41-000	25
I.L. 33-155-1A . . .	33-000	21	I.B. 36-250-3 . . .	36-000	23	I.L. 41-331.1A . . .	41-000	25
I.L. 33-155-2 . . .	33-000	21	I.B. 36-250-4 . . .	36-000	23	I.L. 41-332.1C . . .	41-000	25
I.L. 33-155-3 . . .	33-000	21	I.B. 36-250-5 . . .	36-000	23	I.L. 41-334.1A . . .	41-000	25
I.L. 33-155-5 . . .	33-000	21	I.B. 36-250-6 . . .	36-000	23	I.L. 41-337.1C . . .	41-000	25
I.L. 33-210-1 . . .	33-000	21	I.L. 36-850-1 . . .	36-000	23	I.L. 41-339.1A . . .	41-000	25
I.L. 33-215-1 . . .	33-000	21	I.L. 38-120-1B . . .	38-000	23	I.L. 41-341.1 . . .	41-000	25
I.B. 33-216 . . .	33-000	21	I.L. 38-120-2 . . .	38-000	23	I.L. 41-342-A . . .	41-000	25
I.B. 33-216-1A . . .	33-000	21	I.L. 38-120-3 . . .	38-000	23	I.L. 41-346.1A . . .	41-000	25
I.B. 33-220-1 . . .	33-000	21	I.L. 38-120-4 . . .	38-000	23	I.L. 41-347-B . . .	41-000	25
I.B. 33-226-1 . . .	33-000	21	I.L. 38-210-1 . . .	38-000	23	I.L. 41-367-A . . .	41-000	25
I.B. 33-226-2A . . .	33-000	21	I.L. 38-240-SV-2A . . .	38-000	23	I.L. 41-378-A . . .	41-000	25
I.L. 33-245-1 . . .	33-000	21	I.L. 38-620-1A . . .	38-600	24	I.L. 41-418.2C . . .	41-000	25
I.B. 33-251-2 . . .	33-000	21	I.L. 38-620-2A . . .	38-600	24	I.L. 41-432.1 . . .	41-000	25
I.B. 33-251-3 . . .	33-000	21	I.L. 38-625-1A . . .	38-600	24	I.L. 41-433.1 . . .	41-000	25
I.B. 33-253-3 . . .	33-000	21	I.L. 38-695-2 . . .	38-600	24	I.L. 41-435-B . . .	41-000	25
I.B. 33-253-10 . . .	33-000	21	I.L. 38-700-1 . . .	38-600	24	I.L. 41-466.1B . . .	41-000	25
I.B. 33-253-12 . . .	33-000	21	I.L. 38-710-1 . . .	38-600	24	I.L. 41-467.1 . . .	41-000	25
I.L. 33-350-1 . . .	33-000	21	I.L. 38-710-2A . . .	38-600	24	I.L. 41-468 . . .	41-000	25
I.B. 33-354-1 . . .	33-000	21	I.L. 38-720-1 . . .	38-600	24	I.L. 41-469.1A . . .	41-000	25
I.L. 33-354-2 . . .	33-000	21	I.L. 38-720-2 . . .	38-600	24	I.L. 41-471.1A . . .	41-000	25
I.B. 33-356-2 . . .	33-000	21	I.L. 38-720-3 . . .	38-600	24	I.L. 41-476-B . . .	41-000	25
I.B. 33-357-1 . . .	33-000	22	I.L. 38-720-4 . . .	38-600	24	I.L. 41-478.1 . . .	41-000	25
I.B. 33-560-1 . . .	33-000	22	I.L. 38-725-1 . . .	38-600	24	I.L. 41-479.1 . . .	41-000	25
I.B. 33-600-1 . . .	33-000	22	I.L. 38-760-1A . . .	38-600	24	I.L. 41-481 . . .	41-000	25
I.B. 33-600-2 . . .	33-000	22	I.L. 38-810-1 . . .	38-600	24	I.L. 41-484.1 . . .	41-000	25
I.B. 33-600-3 . . .	33-000	22	I.L. 40-000 . . .	41-000	24	I.L. 41-486 . . .	41-000	25
I.B. 33-650-1 . . .	33-000	22	I.L. 41-000 . . .	41-000	24	I.L. 41-487 . . .	41-000	25
I.B. 33-700-4 . . .	33-000	22	I.L. 41-076 . . .	41-000	24	Errata #1 to		
I.B. 33-702 . . .	33-000	22	I.L. 41-101-D . . .	41-000	24	I.L. 41-491-A . . .	41-000	25
I.B. 33-746 . . .	33-000	22	I.L. 41-102 . . .	41-000	24	I.L. 41-491-B . . .	41-000	25
I.B. 33-750-1A . . .	33-000	22	I.L. 41-103-A . . .	41-000	24	I.L. 41-492-A . . .	41-000	25
I.B. 33-750-2A . . .	33-000	22	I.L. 41-106-A . . .	41-000	24	I.L. 41-501.1 . . .	41-000	25
I.B. 33-750-3A . . .	33-000	22	I.L. 41-109 . . .	41-000	24	I.L. 41-536.1B . . .	41-000	26
I.B. 33-750-4 . . .	33-000	22	I.L. 41-111 . . .	41-000	24	I.L. 41-551.1A . . .	41-000	26
I.B. 33-751-1 . . .	33-000	22	I.L. 41-116-A . . .	41-000	24	I.L. 41-552.1B . . .	41-000	26
I.B. 33-805-1A . . .	33-000	22	I.L. 41-131-C . . .	41-000	24	I.L. 41-553 . . .	41-000	26
I.B. 33-805-2A . . .	33-000	22	I.L. 41-133-A . . .	41-000	24	I.L. 41-553.1A . . .	41-000	26
I.B. 33-805-4A . . .	33-000	22	I.L. 41-136.1 . . .	41-000	24	I.L. 41-572 . . .	41-000	26
I.B. 33-850-1 & 2A . . .	33-700	22	I.L. 41-137-A . . .	41-000	24	I.L. 41-573 . . .	41-000	26
I.B. 33-850-3 . . .	33-700	22	I.L. 41-151.1 . . .	41-000	24	I.L. 41-574-A . . .	41-000	26
I.B. 33-850-4 & 5A . . .	33-000	22	I.L. 41-161-A . . .	41-000	24	I.L. 41-577 . . .	41-000	26
I.B. 35-260-A . . .	33-700	22	I.L. 41-162 . . .	41-000	24	I.L. 41-661-C . . .	41-000	26
I.B. 35-450-1 . . .	35-000	22	I.L. 41-163.1 . . .	41-000	24	I.L. 41-662.1 . . .	41-000	26
I.B. 35-500-1A . . .	35-000	23	I.L. 41-176 . . .	41-000	24	I.L. 41-663.1 . . .	41-000	26
I.B. 35-600-1 . . .	35-000	23	I.L. 41-181.1 . . .	41-000	24	I.L. 41-681 . . .	41-000	26
I.L. 36-150-3 . . .	36-000	23	I.L. 41-201-C . . .	41-000	24	I.L. 41-741 . . .	41-000	26
I.L. 36-155 . . .	36-000	23	I.L. 41-202 . . .	41-000	24	I.L. 41-746.1 . . .	41-000	26
I.B. 36-160-1A . . .	36-000	23	I.L. 41-207-B . . .	41-000	24	I.L. 41-747 . . .	41-000	26
I.L. 36-160-3 . . .	36-000	23	I.L. 41-222.2A . . .	41-000	24	I.L. 41-751-B . . .	41-000	26
I.L. 36-160-4 . . .	36-000	23	I.L. 41-226.2A . . .	41-000	24	I.L. 41-751.1B . . .	41-000	26
I.L. 36-160-5 . . .	36-000	23	I.L. 41-241.1 . . .	41-000	25	I.L. 41-753.1 . . .	41-000	26
I.L. 36-160-6 . . .	36-000	23	I.L. 41-242.1 . . .	41-000	25	I.L. 41-758-A . . .	41-000	26



NUMERICAL INDEX

PUBLICATION NUMBER	APPARATUS CLASS NO.	PAGE	PUBLICATION NUMBER	APPARATUS CLASS NO.	PAGE	PUBLICATION NUMBER	APPARATUS CLASS NO.	PAGE
I.L. 41-766.1A . . .	41-000	26	I.L. 42-520.1A . . .	42-000	28	I.L. 44-640-3A . . .	44-500	29
I.L. 41-771	41-000	26	I.L. 42-520.2 . . .	42-000	28	I.B. 44-820-1B . . .	44-500	29
I.L. 41-774	41-000	26	I.L. 42-520.3 . . .	42-000	28	I.B. 44-860-1 . . .	44-500	29
I.L. 41-793	41-000	26	I.L. 42-771.1 . . .	42-000	28	I.L. 45-100-1A . . .	45-000	30
I.L. 41-856-A	41-000	26	I.L. 42-801	42-000	28	I.L. 45-520-1 . . .	45-000	30
I.L. 41-861	41-000	26	I.L. 43-115	43-000	28	I.B. 46-100-1A . . .	46-000	30
I.L. 41-866	41-000	26	I.L. 43-120-D . . .	43-000	28	I.B. 46-100-3 . . .	46-000	30
I.L. 41-867	41-000	26	I.L. 43-140-C . . .	43-000	28	I.L. 46-115-1A . . .	46-000	30
I.L. 41-868	41-000	26	I.L. 43-141.2B . . .	43-000	28	I.L. 46-115-2A . . .	46-000	30
I.L. 41-901	41-000	26	I.L. 43-145-A . . .	43-000	28	I.L. 46-115-4B . . .	46-000	30
I.L. 41-904-A	41-000	26	I.L. 43-200-2C . . .	43-000	28	I.L. 46-300-1 . . .	46-000	30
I.L. 41-906	41-000	26	I.L. 43-200.3A . . .	43-000	28	I.L. 46-300-2 . . .	46-000	30
I.L. 41-907	41-000	26	I.L. 43-210-B . . .	43-000	28	I.L. 46-300-3 . . .	46-000	30
I.L. 41-911	41-000	26	I.L. 43-220-C . . .	43-000	28	I.L. 46-300-4 . . .	46-000	30
I.L. 41-916-1B	41-000	26	I.L. 43-230-G . . .	43-000	28	I.L. 46-300-5 . . .	46-000	30
I.L. 41-917.1	41-000	26	I.L. 43-240-F . . .	43-000	28	I.L. 46-300-6 . . .	46-000	30
I.L. 41-921.1	41-000	26	I.L. 43-240.2A . . .	43-000	28	I.L. 46-701-1 . . .	46-700	30
I.L. 41-922-A	41-000	26	I.L. 43-241	43-000	28	I.L. 46-701-2 . . .	46-700	30
I.L. 41-922.1	41-000	26	I.L. 43-249-A . . .	43-000	28	I.L. 46-701-3A . . .	46-700	30
I.L. 41-923-A	41-000	26	I.L. 43-250-B . . .	43-000	28	I.L. 46-701-4 . . .	46-700	30
I.L. 41-951.1	41-000	26	I.L. T-43-250.1 . . .	43-000	28	I.L. 46-702-2 . . .	46-700	30
I.L. 41-953	41-000	26	I.L. 43-251	43-000	28	I.L. 46-702-3A . . .	46-700	30
I.L. 41-962.1	41-000	27	I.L. 43-260	43-000	28	I.L. 46-702-4A . . .	46-700	30
I.L. 41-971.1C	41-000	27	I.L. 43-300.1 . . .	43-000	28	I.L. 46-702-5 . . .	46-700	30
I.L. 41-972.1	41-000	26	I.L. 43-310	43-000	28	I.L. 46-702-6 . . .	46-700	30
I.L. 41-973.3A	41-000	27	I.L. 43-330-F . . .	43-000	28	I.L. 46-702-7 . . .	46-700	30
I.L. 42-100-B	42-000	27	I.L. 43-347	43-000	28	I.L. 46-703-1 . . .	46-700	31
I.L. 42-101	42-000	27	I.L. 43-347.2 . . .	43-000	29	I.L. 46-710-1 . . .	46-700	31
I.L. 42-101.3	42-000	27	I.L. 43-347.3 . . .	43-000	29	I.L. 46-710-2C . . .	46-700	31
I.L. 42-101.4	42-000	27	I.L. 43-350	43-000	29	I.L. 46-710-3 . . .	46-700	31
I.L. 42-101.5	42-000	27	I.L. 43-370	43-000	29	I.L. 46-710-5D . . .	46-700	31
I.L. 42-101.6	42-000	27	I.L. 43-371.1 . . .	43-000	29	I.L. 46-710-6A . . .	46-700	31
I.L. 42-101.12	42-000	27	I.L. 43-400	43-000	29	I.L. 46-710-8B . . .	46-700	31
I.L. 42-101.20	42-000	27	I.L. 43-405	43-000	29	I.L. 46-710-9C . . .	46-700	31
I.L. 42-101.21	42-000	27	I.L. 43-415	43-000	29	I.L. 46-710-10 . . .	46-700	31
I.L. 42-102	42-000	27	I.L. 43-415-1 . . .	43-000	29	I.L. 46-710-11 . . .	46-700	31
I.L. 42-104-1B	42-000	27	I.L. 43-440	43-000	29	I.L. 46-711-4A . . .	46-700	31
I.L. 42-104.3A	42-000	27	I.L. 43-450	43-000	29	I.L. 46-711-5 . . .	46-700	31
I.L. 42-201.1	42-000	27	I.L. 43-511.1 . . .	43-000	29	I.L. 46-711-6G . . .	46-700	31
I.L. 42-210-A	42-000	27	I.L. 43-511.2 . . .	43-000	29	I.L. 46-711-7 . . .	46-700	31
I.L. 42-210.1A	42-000	27	I.L. 43-561.1 . . .	43-000	29	I.L. 46-712-1A . . .	46-700	31
I.L. 42-225-A	42-000	27	I.L. 43-600-D . . .	43-000	29	I.L. 46-713-2A . . .	46-700	31
I.L. 42-225-1B	42-000	27	I.L. 43-800	43-000	29	I.L. 46-713-3C . . .	46-700	31
I.L. 42-300-A	42-000	27	I.L. 43-825	43-000	29	I.L. 46-713-7 . . .	46-700	31
I.L. 42-314-C	42-000	27	I.L. 43-830-A . . .	43-000	29	I.L. 46-714-3D . . .	46-700	31
I.L. 42-315-C	42-000	27	I.L. 43-830.1A . . .	43-000	29	I.L. 46-714-5C . . .	46-700	31
I.L. 42-315-1D	42-000	27	I.L. 43-830.2 . . .	43-000	29	I.L. 46-714-6 . . .	46-700	31
I.L. 42-337-E	42-000	27	I.L. 43-840	43-000	29	I.L. 46-714-7 . . .	46-700	31
I.L. 42-338-B	42-000	27	I.L. 43-850-A . . .	43-000	29	I.L. 46-715-1 . . .	46-700	31
I.L. 42-340-A	42-000	27	I.L. 43-850.1 . . .	43-000	29	I.L. 46-716-1 . . .	46-700	31
I.L. 42-414.1C	42-000	27	I.L. 44-060-1 . . .	44-000	29	I.L. 46-716-2 . . .	46-700	31
I.L. 42-414.4	42-000	27	I.L. 44-252-1 . . .	44-000	29	I.L. 46-716-3 . . .	46-700	31
I.L. 42-415.1B	42-000	27	I.L. 44-600-1 . . .	44-500	29	I.L. 46-716-4E . . .	46-700	31
I.L. 42-501.1	42-000	28	I.L. 44-640-1 . . .	44-500	29	I.L. 46-716-5E . . .	46-700	31
I.L. 42-520-A	42-000	28	I.L. 44-640-2 . . .	44-500	29	I.L. 46-716-6B . . .	46-700	31



NUMERICAL INDEX

PUBLICATION NUMBER	APPARATUS CLASS NO.	PAGE	PUBLICATION NUMBER	APPARATUS CLASS NO.	PAGE	PUBLICATION NUMBER	APPARATUS CLASS NO.	PAGE
I.L. 46-717-1 . . .	46-700	31	I.B. 47-200-1 . . .	47-000	33	I.L. 47-925-2 . . .	47-500	35
I.L. 46-717-2D . . .	46-700	31	I.B. 47-310-2 . . .	47-000	33	I.L. 48-100-1B . . .	48-000	35
I.L. 46-717-3B . . .	46-700	31	I.B. 47-310-3 . . .	47-000	33	I.L. 48-100-2 . . .	48-000	35
I.L. 46-717-5 . . .	46-700	31	I.B. 47-310-4 . . .	47-000	33	I.L. 48-100-3 . . .	48-000	35
I.L. 46-717-6B . . .	46-700	31	I.L. 47-310-5 . . .	47-000	34	I.L. 48-100-6B . . .	48-000	35
I.L. 46-717-7 . . .	46-700	31	I.B. 47-410-2 . . .	47-000	34	I.L. 48-130-3 . . .	48-000	35
I.L. 46-717-8B . . .	46-700	32	I.B. 47-410-2 . . .	47-000	34	I.L. 48-130-4A . . .	48-000	35
I.L. 46-717-9 . . .	46-700	32	I.B. 47-420-1 . . .	47-000	34	I.L. 48-200-1 . . .	48-000	35
I.L. 46-717-11 . . .	46-700	32	I.L. 47-431-6A . . .	47-000	34	I.L. 48-300-1A . . .	48-000	35
I.L. 46-717-12 . . .	46-700	32	I.B. 47-431-7A . . .	47-000	34	I.L. 48-500-1A . . .	48-000	35
I.L. 46-718-1A . . .	46-700	32	I.B. A47-435-2 . . .	47-000	34	I.L. 48-500-3 . . .	48-000	36
I.L. 46-718-2 . . .	46-700	32	I.B. 47-435-3 . . .	47-000	34	I.L. 48-550-1 . . .	48-000	36
I.L. 46-718-3A . . .	46-700	32	I.L. 47-500-1A . . .	47-000	34	I.L. 48-585-1 . . .	48-000	36
I.L. 46-718-4A . . .	46-700	32	I.L. 47-600-4A . . .	47-500	34	I.L. 48-585-2 . . .	48-000	36
I.L. 46-719-1 . . .	46-700	32	I.L. 47-600-5B . . .	47-500	34	I.L. 48-600-1 . . .	48-000	36
I.L. 46-719-2A . . .	46-700	32	I.L. 47-600-6 . . .	47-500	34	I.L. 48-600-3 . . .	48-000	36
I.L. 46-719-3A . . .	46-700	32	I.L. 47-600-7B . . .	47-500	34	I.L. 48-600-5 . . .	48-000	36
I.L. 46-719-4A . . .	46-700	32	I.L. 47-600-8B . . .	47-500	34	I.L. 48-600-6A . . .	48-000	36
I.L. 46-719-5 . . .	46-700	32	I.L. 47-600-10C . . .	47-500	34	I.L. 48-600-7 . . .	48-000	36
I.L. 46-719-7A . . .	46-700	32	I.L. 47-600-11C . . .	47-500	34	I.L. 48-600-8 . . .	48-000	36
I.L. 46-720-1A . . .	46-700	32	I.L. 47-600-12A . . .	47-500	34	I.L. 48-622-1 . . .	48-000	36
I.L. 46-720-4A . . .	46-700	32	I.L. 47-600-18B . . .	47-500	34	I.L. 48-622-2 . . .	48-000	36
I.L. 46-720-5A . . .	46-700	32	I.L. 47-600-21F . . .	47-500	34	I.L. 48-622-3 . . .	48-000	36
I.L. 46-721-1 . . .	46-700	32	I.L. 47-600-22 . . .	47-500	34	I.L. 48-622-4 . . .	48-000	36
I.L. 46-721-4 . . .	46-700	32	I.L. 47-600-23A . . .	47-500	34	I.L. 48-650-2 . . .	48-000	36
I.L. 46-722-2C . . .	46-700	32	I.L. 47-600-24A . . .	47-500	34	I.L. 48-650-3 . . .	48-000	36
I.L. 46-723-1C . . .	46-700	32	I.L. 47-600-26 . . .	47-500	34	I.L. 48-650-4 . . .	48-000	36
I.L. 46-723-2B . . .	46-700	32	I.L. 47-600-27A . . .	47-500	34	I.L. 48-650-5A . . .	48-000	36
I.L. 46-723-3A . . .	46-700	32	I.L. 47-605-1B . . .	47-500	34	I.L. 48-650-6 . . .	48-000	36
I.L. 46-723-10 . . .	46-700	32	I.L. 47-606-1A . . .	47-500	34	I.L. 48-650-7 . . .	48-000	36
I.L. 46-723-11 . . .	46-700	32	I.L. 47-606-2A . . .	47-500	35	I.L. 48-650-8 . . .	48-000	36
I.L. 46-723-12 . . .	46-700	32	I.L. 47-610-1E . . .	47-500	35	I.L. 48-717-15 . . .	48-000	36
I.L. 46-723-13 . . .	46-700	32	I.L. 47-620-1A . . .	47-500	35	I.L. 48-900-1 . . .	46-700	33
I.L. 46-723-14 . . .	46-700	32	I.L. 47-622-1B . . .	47-500	35	I.L. 48-900-3 . . .	46-700	33
I.L. 46-723-15A . . .	46-700	32	I.L. 47-622-2B . . .	47-500	35	I.L. 48-900-6 . . .	46-700	33
I.L. 46-723-16A . . .	46-700	32	I.L. 47-622-3 . . .	47-500	35	I.L. 48-900-8 . . .	46-700	33
I.L. 46-723-17A . . .	46-700	33	I.L. 47-622-4A . . .	47-500	35	I.L. 48-900-11 . . .	46-700	33
I.L. 46-725-1A . . .	46-700	33	I.L. 47-622-4B . . .	47-500	35	I.L. 48-900-12 . . .	46-700	33
I.L. 46-727-1A . . .	46-700	33	I.L. 47-622-5 . . .	47-500	35	I.L. 48-900-13 . . .	46-700	33
I.L. 46-728-3C . . .	46-700	33	I.L. 47-623-1 . . .	47-500	35	I.B. 48-901-3A . . .	46-700	33
I.L. 46-728-5 . . .	46-700	33	I.L. 47-625-1 . . .	47-500	35	I.L. 48-902-2 . . .	48-000	36
I.L. 46-728-8B . . .	46-700	33	I.L. 47-627-1 . . .	47-500	35	I.L. 49-110-2 . . .	49-000	36
I.L. 46-729-1B . . .	46-700	33	I.L. 47-629-1 . . .	47-500	35	I.L. 49-110-3 . . .	49-000	36
I.L. 46-730-1 . . .	46-700	33	I.L. 47-629-2 . . .	47-500	35	I.B. 49-210-1 . . .	49-000	36
I.L. 46-732-1 . . .	46-700	33	I.L. 47-629-3 . . .	47-500	35	I.B. 49-220-1 . . .	49-000	36
I.L. 46-733-1 . . .	46-700	33	I.L. 47-629-4 . . .	47-500	35	I.B. 49-250 . . .	49-000	36
I.L. 46-734-1B . . .	46-700	33	I.L. 47-728-1 . . .	47-500	35	I.L. 49-250-1A . . .	49-000	36
I.L. 46-735-1E . . .	46-700	33	I.L. 47-800-1 . . .	47-500	35	I.L. 49-275-1 . . .	49-000	36
I.L. 46-736-7B . . .	46-700	33	I.L. 47-805-1D . . .	47-500	35	I.L. 49-310-1 . . .	49-000	36
I.L. 46-738-1A . . .	46-700	33	I.L. 47-805-2 . . .	47-500	35	I.L. 49-320-1 . . .	49-000	36
I.L. 46-740-5 . . .	46-700	33	I.L. 47-900-1B . . .	47-500	35	I.B. 49-610-1 . . .	49-000	36
I.L. 46-744-2 . . .	46-700	33	I.L. 47-900-2 . . .	47-500	35	I.B. 49-610-2 . . .	49-000	36
I.L. 46-750-1K . . .	46-700	33	I.L. 47-907-1B . . .	47-500	35	I.L. 49-620-1B . . .	49-000	37
I.L. 47-150-6 . . .	47-000	33	I.L. 47-920-1 . . .	47-500	35	I.L. 49-620-2 . . .	49-000	37
I.B. 47-175-1 . . .	47-000	33	I.L. 47-925-1 . . .	47-500	35	I.L. 60-020-1 . . .	60-000	37



NUMERICAL INDEX

page 46

PUBLICATION NUMBER	APPARATUS CLASS NO.	PAGE	PUBLICATION NUMBER	APPARATUS CLASS NO.	PAGE	PUBLICATION NUMBER	APPARATUS CLASS NO.	PAGE
I.L. 60-020-2A . .	60-000	37	I.L. 60-982-3 . .	60-900	37	I.L. 61-235-1C . .	61-000	38
I.L. 60-030-1 . .	60-000	37	I.L. 60-982-4 . .	60-900	37	I.L. 61-242-1A . .	61-000	38
I.L. 60-030-2A . .	60-000	37	I.B. 60-994-1 . .	60-900	37	I.L. 61-243-1C . .	61-000	38
I.L. 60-030-3 . .	60-000	37	I.B. 60-994-2 . .	60-900	37	I.L. 61-244-1C . .	61-000	38
I.L. 60-031-1 . .	60-000	37	I.L. 61-130-1 . .	61-000	38	I.L. 61-244-2B . .	61-000	38
I.L. 60-032-1 . .	60-000	37	I.L. 61-130-2 . .	61-000	38	I.L. 61-245-1C . .	61-000	38
I.L. 60-032-3B . .	60-000	37	I.L. 61-130-3 . .	61-000	38	I.L. 61-246-1 . .	61-000	38
I.B. 60-106-1B . .	60-000	37	I.L. 61-130-4 . .	61-000	38	I.L. 61-248-1A . .	61-000	38
I.L. 60-932-1A . .	60-900	37	I.L. 61-130-5 . .	61-000	38	I.L. 61-248-2 . .	61-000	38
I.L. 60-960-1 . .	60-900	37	I.L. 61-130-6 . .	61-000	38	I.L. 61-250-1B . .	61-000	39
I.L. 60-961-1 . .	60-900	37	I.L. 61-130-7 . .	61-000	38	I.L. 61-257-1 . .	61-000	39
I.L. 60-961-2 . .	60-900	37	I.L. 61-130-9 . .	61-000	38	I.L. 61-260-1A . .	61-000	39
I.L. 60-962-1 . .	60-900	37	I.L. 61-150-8.1A .	61-000	38	I.L. 61-260-2C . .	61-000	39
I.L. 60-963-1 . .	60-900	37	I.L. 61-230-1 . .	61-000	38	I.L. 61-260-3 . .	61-000	39
I.L. 60-965-2A . .	60-900	37	I.L. 61-230-2A . .	61-000	38	I.L. 61-330-7 . .	61-000	39
I.B. 60-967.1 . .	60-900	37	I.L. 61-232-1G . .	61-000	38	I.L. 61-858-1 . .	61-000	39
I.B. 60-970-1 . .	60-900	37	I.L. 61-233-1C . .	61-000	38	Advance F.I.L.		
I.L. 60-973-1A . .	60-900	37	I.L. 61-233-2A . .	61-000	38	587099-C-1A . .	47-000	34
I.L. 60-973-2 . .	60-900	37	I.L. 61-233-3 . .	61-000	38	I.B. 61-2760-1A . .	61-000	39
I.B. 60-980-3 . .	60-900	37	I.L. 61-234-1C . .	61-000	38	I.B. 61-2780-A . .	61-000	39