

wiring diagram for a contactor

wiring diagram for a contactor is an essential reference for electricians, engineers, and HVAC technicians when installing or troubleshooting electrical control systems. A contactor is a vital component used to control the flow of electricity in circuits, especially in motors, lighting, heating, and air conditioning applications. Understanding the wiring diagram for a contactor enables professionals to connect the device correctly, ensuring safe and efficient operation. This article explores the fundamental elements of contactor wiring, common wiring diagrams, and practical tips for installation. Detailed explanations of coil connections, auxiliary contacts, and overload relays are also included to provide a comprehensive understanding. By mastering the wiring diagram for a contactor, technicians can avoid common pitfalls and ensure reliable control system performance. The following sections outline the key aspects and variations of wiring contactors used in different electrical setups.

- Understanding the Basics of a Contactor
- Key Components in a Contactor Wiring Diagram
- How to Read a Wiring Diagram for a Contactor
- Common Wiring Diagrams for Contactors
- Step-by-Step Guide to Wiring a Contactor
- Safety Precautions When Wiring Contactors
- Troubleshooting Common Contactor Wiring Issues

Understanding the Basics of a Contactor

A contactor is an electrically controlled switch used for switching a power circuit, similar to a relay but with higher current ratings. It is commonly employed to control electric motors, lighting systems, heating elements, and other electrical loads. The primary function of a contactor is to allow the circuit to be energized or de-energized remotely or automatically through a low-voltage control circuit.

What is a Contactor?

A contactor consists of an electromagnet (coil), movable contacts, and stationary contacts. When the coil is energized, it creates a magnetic field that pulls the movable contacts towards the stationary contacts, closing the circuit and allowing current to flow to the load. When the coil is de-energized, the contacts open, interrupting the current flow.

Applications of Contactors

Contactors are widely used in industrial and commercial electrical systems. Their applications include:

- Starting and stopping electric motors
- Controlling lighting circuits
- Managing heating and cooling systems
- Switching capacitors in power factor correction units
- Automating industrial machinery

Key Components in a Contactor Wiring Diagram

A wiring diagram for a contactor includes various components that must be correctly identified and connected for the system to function properly. Understanding these components is crucial for interpreting and implementing the wiring diagram accurately.

Coil

The coil is the electromagnet that actuates the contactor. It is energized by a control voltage, which can vary depending on the specific contactor (commonly 24V, 120V, or 240V AC/DC). The coil terminals are usually labeled as A1 and A2.

Main Contacts

Main contacts are the power contacts responsible for switching the load current. They are typically labeled as L1, L2, L3 for input terminals and T1, T2, T3 for output terminals in three-phase contactors.

Auxiliary Contacts

Auxiliary contacts provide additional switching functions for control circuits. These can be normally open (NO) or normally closed (NC) contacts used for signaling, interlocking, or other control purposes.

Overload Relay

Often paired with contactors, overload relays protect motors from overheating by interrupting the circuit if current exceeds safe limits. They are wired in series with the coil or main contacts depending on the application.

How to Read a Wiring Diagram for a Contactor

Reading a wiring diagram for a contactor involves understanding the symbols, terminal designations, and the flow of current through the control and power circuits. Correct interpretation is essential for successful installation and troubleshooting.

Identifying Symbols

Electrical diagrams use standardized symbols to represent contactors, coils, auxiliary contacts, and other components. The contactor coil is usually shown as a rectangle or coil symbol, while contacts are depicted as lines that open or close.

Terminal Labels

Terminals are labeled to indicate their function. For example, coil terminals are A1 and A2, main power contacts are L1, L2, L3 (line side) and T1, T2, T3 (load side), and auxiliary contacts may be numbered 13, 14 (NO) or 21, 22 (NC).

Control vs. Power Circuit

The wiring diagram distinguishes between the control circuit, which energizes the coil, and the power circuit, which carries the high current to the load. Understanding this separation helps in identifying which wires connect to what components.

Common Wiring Diagrams for Contactors

Several standard wiring configurations exist for contactors depending on the application. Familiarity with these common diagrams aids in selecting the right wiring method for a specific task.

Single-Phase Contactor Wiring

In single-phase systems, the contactor typically controls one line and one neutral conductor or two lines. The wiring diagram shows the coil connected to a control voltage source and the main contacts wired in series with the load.

Three-Phase Motor Contactor Wiring

For three-phase motors, the wiring diagram includes three main contacts (L1-T1, L2-T2, L3-T3) controlling each phase. The coil is connected to a control circuit, often through a start/stop switch or an overload relay.

Incorporating Overload Relays

Many three-phase motor wiring diagrams include an overload relay connected in series with the coil or main contacts. The overload relay protects the motor by breaking the control circuit if excessive current is detected.

Step-by-Step Guide to Wiring a Contactor

Proper wiring of a contactor requires careful adherence to the wiring diagram and electrical codes. The following steps outline a general procedure for wiring a contactor safely and effectively.

1. Turn off all power sources before starting the wiring process to ensure safety.
2. Identify the coil terminals (A1 and A2) and connect them to the appropriate control voltage source.
3. Connect the line power supply wires to the input terminals (L1, L2, L3) of the contactor.

4. Wire the load (motor, lighting, etc.) to the output terminals (T1, T2, T3).
5. If an overload relay is used, connect it in series with the load or coil circuit as per the wiring diagram.
6. Connect any auxiliary contacts to the control circuit for signaling or interlocking functions.
7. Double-check all connections against the wiring diagram for correctness.
8. Restore power and test the contactor operation by energizing the coil and verifying load activation.

Safety Precautions When Wiring Contactors

Ensuring safety during contactor wiring is paramount to prevent electrical hazards, equipment damage, and personal injury. Strict adherence to safety protocols protects both personnel and equipment.

De-energize Circuits Before Work

Always switch off and lock out the power supply before beginning any wiring or maintenance tasks on contactors.

Use Proper Tools and Equipment

Utilize insulated tools and wear appropriate personal protective equipment (PPE) such as gloves and safety glasses.

Follow Electrical Codes and Standards

Adhere to the National Electrical Code (NEC) or relevant local standards for wiring practices and component ratings.

Verify Correct Voltage Ratings

Ensure that the coil voltage and contact ratings match the control and power circuits to avoid malfunction or damage.

Troubleshooting Common Contactor Wiring Issues

Understanding common wiring problems can expedite the diagnosis and repair of contactor-related faults. Proper troubleshooting techniques enhance system reliability.

Coil Not Energizing

Check for blown fuses, loose connections at coil terminals, or control circuit wiring errors. Verify that the control switch or relay is functioning correctly.

Contactor Contacts Not Closing

Inspect for mechanical obstruction, coil failure, or damaged contacts. Ensure the coil receives the correct voltage and is properly energized.

Overheating or Burning Smell

Overheating can result from incorrect wiring, overloading, or poor contact connections. Tighten terminals and confirm load ratings are within limits.

Auxiliary Contacts Not Operating

Check wiring of auxiliary contacts and verify they are wired according to the diagram. Test the contacts with a multimeter for continuity.

Frequently Asked Questions

What is a wiring diagram for a contactor?

A wiring diagram for a contactor is a schematic representation that shows how electrical connections are made to a contactor, including the control circuit and power circuit connections.

How do I wire a basic contactor for a motor?

To wire a basic contactor for a motor, connect the power supply lines to the contactor's input terminals, the motor leads to the output terminals, and the control coil terminals to a control switch or relay with the appropriate control voltage.

What are the common terminals in a contactor wiring diagram?

Common terminals include the L1, L2, L3 for line inputs, T1, T2, T3 for load outputs, and A1, A2 for the coil or control circuit connections.

How can I identify the coil connections on a contactor wiring diagram?

The coil connections are typically labeled A1 and A2 on the wiring diagram and correspond to the control voltage that energizes the contactor coil to close or open the contacts.

Can I use a wiring diagram to troubleshoot a contactor?

Yes, using a wiring diagram helps identify correct wiring and locate faults such as open coils, wiring errors, or control circuit problems when troubleshooting a contactor.

What safety precautions should I take when wiring a contactor?

Always disconnect power before wiring, use proper insulated tools, verify wiring against the diagram, and ensure the control voltage matches the coil rating to prevent electrical hazards.

Are there different wiring diagrams for single-phase and three-phase contactors?

Yes, single-phase contactors typically have two power terminals, while three-phase contactors have three power terminals, so their wiring diagrams differ accordingly to match the motor or load type.

Additional Resources

1. *Wiring Diagrams for Contactors: A Practical Guide*

This book provides a comprehensive introduction to wiring diagrams specifically for contactors. It covers the basics of electrical components, how to read and interpret wiring diagrams, and step-by-step instructions for wiring different types of contactors. Ideal for electricians and students looking to strengthen their practical skills.

2. *Electrical Control Systems and Wiring Diagrams*

Focusing on the control systems that utilize contactors, this book explains the role of contactors in electrical circuits. It includes detailed wiring diagrams, troubleshooting tips, and real-world examples to help readers understand the complexities of electrical control wiring. A valuable resource for both beginners and experienced technicians.

3. *Contactors and Motor Starters: Wiring and Troubleshooting*

This title delves into the wiring and operation of contactors used in motor starter applications. It provides clear diagrams and troubleshooting techniques that assist in identifying common wiring faults. Readers will gain a solid foundation in wiring contactors for motor control and maintenance.

4. *Industrial Wiring Diagrams for Contactors and Relays*

Designed for industrial electricians, this book offers extensive wiring diagrams for contactors and related relay components. It covers various industrial applications, safety standards, and wiring best practices. The diagrams are detailed and annotated to support quick understanding and implementation.

5. Mastering Wiring Diagrams: Contactors and Beyond

This book is a comprehensive manual that covers wiring diagrams not only for contactors but also for other related electrical components. It teaches how to interpret complex diagrams and design wiring layouts efficiently. A great reference for engineers and technicians involved in electrical system design.

6. Electrical Wiring Essentials: Contactors and Control Circuits

Providing foundational knowledge on electrical wiring, this book emphasizes contactors and control circuits in residential and commercial settings. It includes practical wiring diagrams, installation tips, and safety considerations. Perfect for those new to electrical wiring or seeking to expand their knowledge on contactor circuits.

7. Step-by-Step Wiring Diagrams for Contactors

This user-friendly guide breaks down contactor wiring diagrams into manageable steps. Each chapter focuses on a specific type of contactor wiring configuration, with clear illustrations and instructions. It is especially useful for apprentices and self-learners aiming to master contactor wiring.

8. Contactors and Electrical Wiring: Theory and Practice

Combining theoretical background with practical wiring knowledge, this book explores how contactors function within electrical systems. It features numerous wiring diagrams, circuit examples, and troubleshooting methods. This dual approach benefits readers who want to deepen their understanding and hands-on skills.

9. The Complete Guide to Wiring Contactors and Starters

A detailed reference book covering all aspects of wiring contactors and motor starters, including schematic diagrams and step-by-step wiring procedures. It addresses various types of contactors and starter configurations used in industrial and commercial environments. The guide is ideal for

professionals seeking a thorough resource on contactor wiring.

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wiring diagram for a contactor: *Commercial Electrical Wiring* John E. Traister, 2000
Commercial work uses more material and the work is usually smooth, long-lasting and more profitable than residential. This updated book has the explanations, examples, and tips to help you comply with the parts of the NEC that apply to commercial wiring in load calculations, sizing of electrical services, selecting and installing overcurrent protection and more. You'll also find how to read and understand symbols, plans, drawings and schematics common in commercial electrical work. If you want to increase your work volume and profits by moving into commercial electrical work, get this book.

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Robert Chatenever, 2000 This book provides HVAC/R service technicians with exceptionally practical information on the unique wiring diagrams, methods, technician short-cuts, and potential pitfalls encountered on the job. It begins with a discussion of general electricity and electrical circuits, and then moves quickly into explaining wiring diagrams for HVAC and refrigeration systems, and the new devices that are encountered with each new diagram. It features accessible, technician-level explanations of electronics. Electrical Concepts. Simple Currents. Standing Pilot Furnaces. Heating/Air Conditioning Circuits. Troubleshooting Strategies. Testing and Replacing Common Devices. Repair Strategies. Commercial Systems. Motor Applications. Power Wiring. Testing and Replacing Motors and Start Relays. How Motors Work. Low-Voltage Room Thermostats. Electronic Ignition Gas-Fired Furnaces. Oil Heat. Electric Heat. Boilers. Heat Pump. Ice Makers. Miscellaneous Devices and Accessories. Wiring Techniques. DDC Controllers. For HVAC/R service technicians.

wiring diagram for a contactor: Air Conditioning and Refrigeration Rex Miller, Mark Miller, 2006-04-20 BE AN AC AND REFRIGERATION ACE- NO MATTER WHAT YOUR PRESENT LEVEL OF SKILL! Air Conditioning and Refrigeration helps you understand today's cooling and climate control systems-so expertly that you can use it as the foundation for a career! Clear instructions-with over 800 photographs and illustrations-offer step-by-step guidance to learning the trade for students, professionals, and homeowners who want to do their own installations or repairs. LEARN WITH THE PROS Written by experienced teachers Rex and Mark R. Miller-whose Carpentry & Construction has been a building classic for more than 25 years-Air Conditioning and Refrigeration has all the task-simplifying details you need for any project. In the popular Miller style, this complete and current guide helps: New and student technicians. Build on-the-job skills and the knowledge needed to succeed in a fast-growing, lucrative field. AC and refrigeration pros. Refine and update skills, with full information on the latest cost-cutting technologies, refrigerants, and tools. Do-it-yourselfers and homeowners. Make expert equipment and tool choices and achieve superior results, economically. Service personnel, technicians, contractors, engineers, and facility managers. Find up-to-date information on codes, standards, safety tips, and methods. Anyone who needs clear, illustrated, step-by-step instructions for efficient, cost-effective, and current methods in choosing, installing, maintaining, troubleshooting, servicing, and repairing today's AC and refrigeration equipment.

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United States Navy, 2008-09-01 Originally printed in 1946, The Fleet Type Submarine series of technical manuals remains unparalleled. Contained in its pages and those of the companion texts are descriptions of every operating component aboard a fleet boat. Electrical Installations, Navpers 16162, was originally written to acquaint submarine crews with the theory, operation, and construction of the components of the electrical installations. It especially emphasizes maintenance features and methods. Featuring explanatory text and numerous, detailed diagrams, the book is a wonderful reference for the museum docent, researcher, or anyone who ever wondered ¿how the heck does that work?¿ Originally classified ¿Restricted¿, this book was recently declassified and is here reprinted in book form. Some illustrations have been slightly reformatted, and color plates are reproduced in black and white. Care has been taken to preserve the integrity of the text.

wiring diagram for a contactor: Technical Manual United States. War Department, 1945

wiring diagram for a contactor: *Manuals Combined: 150+ U.S. Army Navy Air Force Marine Corps Generator Engine MEP APU Operator, Repair And Parts Manuals* , Over 36,000 total pages Just a SAMPLE of the CONTENTS by File Number and TM Number:: 013511 TM 5-6115-323-24P 4 GENERATOR SET, GASOLINE ENGINE DRIVEN, SKID MOUNTED, TUBULAR FRAME, 1.5 K SINGLE PHASE, AC, 120/240 V, 28 VDC (LESS ENGINE) DOD MODELS MEP-015A, 60 HZ (NSN 6115-00-889-1446) AND (DOD MODEL MEP-025A) 28 VDC (6115-00-017-8236) {TO 35C2-3-385-4; SL 4-07609A/07610A} 013519 TM 5-6115-329-25P 1 GENERATOR SET, GASOLINE ENGINE DR (LESS ENGINE) 0.5 KW, AC, 120/240 V, 60 HZ, 1 PHASE (DOD MODEL (FSN 6115-923-4469); 400 HZ (MODEL MEP-019A) (6115-940-7862) AN DC (MODEL MEP-024A) (6115-940-7867) {TO 35C2-3-440-14} 013537 TM 5-6115-457-12 7 GENERATOR SET, ENGINE DRIVEN, TACTICAL, SKID MTD; 100 KW, 3 PHASE, 4 WIRE, 120 240/416 V (DOD MODELS MEP-007A), UTILITY CLASS, 50/60 HZ (NSN 6115-00-133-9101), (MODEL MEP-106A) PRECISE CLASS, 50/60 H (6115-00-133-9102), (MODEL MEP-116A) PRECISE CLASS, 400 KW (6115-00-133-9103) INCLUDING OPTIONAL KITS (MODEL MEP-007 AWF) WINTERIZATION KIT, FUEL BURNING (6115-00-463-9082), (MEP-007AWE WINTERIZATION KIT, ELECTRIC (6115-00-463-9084), (MODEL MEP-007A DUMMY LOAD KIT (6115-00-463-9086) AND (MODEL MEP-007AWM) WHEEL 013538 TM 5-6115-457-34 12 GENERATOR SET, DIESEL ENGINE DRIVEN, TACTICAL SKID 100 KW, 3 PHASE, 4 WIRE, 120/208 AND 240/416 V (DOD MODELS MEP0 UTILITY CLASS, 50/60 HZ (NSN 6115-00-133-9101); (MODEL MEP106A) CLASS, 50/60 HZ (6115-00-133-9102) AND (MODEL MEP116A), PRECISE 400 HZ (6115-00-133-9103); INCLUDING OPTIONAL KITS (DOD MODELS MEP007AWF) WINTERIZATION KIT, FUEL BURNING (6115-00-463-9082); MEP007AWE) WINTERIZATION KIT, ELECTRIC (6115-00-463-9084); (MOD MEP007ALM) DUMMY LOAD KIT (6115-00-463-9086) AND (MODEL MEP007A MOUNTING KIT (6 013540 TM 5-6115-458-24P 9 GENERATOR SET, DIESEL ENGINE DRIVEN, TACTICAL, SKID MTD., 2 KW, 3 PHASE, 4 WIRE, 120/208 AND 240/416 VOLTS, DOD MODELS MEP009A UTILITY CLASS, 50/60 HZ (NSN 6115-00-133-9104) AND MODEL MEP108A PRECISE CLASS, 50/60 HZ (6115-00-935-8729) INCLUDING OPTIONAL K DOD MODELS MEP009AWF, WINTERIZATION KIT, FUEL BURNING (6115-00-403-3761), MODEL MEP009AWE, WINTERIZATION KIT, ELECTRIC (6115-00-489-7285) 013545 TM 5-6115-465-12 19 GENERATOR DIESEL ENGINE DRIVEN, TACTICAL SKID MTD, 30 KW, 3 PHASE, 4 WIRE 120/208 AND 240/416 V (DOD MODEL MEP-005A), UTILITY CLASS, 50/6 (NSN 6115-00-118-1240), (MODEL MEP-104A), PRECISE CLASS, 50/60 (6115-00-118-1247), (MODEL MEP-114A), PRECISE CLASS, 400 HZ (6115-00-118-1248) INCLUDING AUXILIARY EQUIPMENT (DOD MODEL MEP WINTERIZATION KIT, FUEL BURNING (6115-00-463-9083), (MODEL MEP- WINTERIZATION KIT, ELECTRIC (6115-00-463-9085), (MODEL MEP-005A LOAD BANK KIT (6115-00-463-9088) AND (MODEL MEP-005AWM), WH 013547 TM 5-6115-465-34 12 GENERATOR SET, DIESEL ENGINE DRIVEN, TACTIC SKID MTD, 30 KW, 3 PHASE, 4 WIRE, 120/208 AND 240/416 V (DOD MO MEP-005A), UTILITY, 50/60 HZ (NSN 6115-00-118-1240), (MODEL MEP-104A), PRECISE, 50/60 HZ (6115-00-118-1247), (MODEL MEP-114 PRECISE, 50/60 HZ (6115-00-118-1248) INCLUDING OPTIONAL KITS (MODEL MEP-005AWF) WINTERIZATION KIT, FUEL BURNING (6115-00-463 (MODEL MEP-005AWE) WINTERIZATION KIT, ELECTRIC (6115-00-463-908 (MODEL

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 35C2-3-473-4; TM 1730-24P/ AG 320A0-IPB-000} 065603 TB 5-6115-593-24 WARRANTY PROGRAM
 FOR GENERATOR SET DOD MODEL MEP-029A HOUSING K DOD MODEL MEP-029AHK 066727
 TM 5-6115-640-14&P 2 POWER AN/MJQ-32 (NSN 6115-01-280-2300) AN/MJQ-33
 (6115-01-280-2301) (MEP-701A 3KW 60 HZ ACOUSTIC SUPPRESSION KIT GENERATOR SETS
 M116 2-WHEEL, 2-TIRE, 3/4-TON MODIFIED TRAILERS 066808 TM 5-6115-627-14&P 2 POWER
 PLANT AN/MJQ-10A (NSN 6115-00-394-9582); (2) MEP-005A 30 KW 60 HZ GEN SETS; (2) M200A1
 2-WHEEL, 4 TIRE MODIFIED TRAILERS 066809 TM 5-6115-630-14&P 4 POWER UNIT, PU-751/M
 (NSN 6115-00-033-1373) MEP-002A, 5 KW, 60 HZ GENERATOR SET M116A1 2-WHEEL, 2-TIRE,
 MODIFIED TRAILER 066824 TM 5-6115-465-10-HR 1 HAND RECEIPT MANUAL COVERING END
 ITEM/COMPONENTS OF END ITEM (C BASIC ISSUE ITEMS, (BII) AND ADDITIONAL
 AUTHORIZATION LIST (AAL GENERATOR SET, DIESEL ENGINE DRIVEN, TACTICAL SKID
 MOUNTED, 30K 4 WIRE, 120/208 AND 240/416 VOLTS - MEP-005A, UTILITY, 50/60 HE (NSN
 6115-00-118-1240); MEP-104A, PRECISE, 50/60 HERTZ, (6115-00-118-1247): MEP-114A, PRECISE,
 400 HERTZ, (6115-00-118- INCLUDING AUXILIARY EQUIPMENT MEP-005AWF WINTERIZATION
 KIT, FUE BURNING (6115-00-463-9083); MEP-005AWE, WINTERIZATION KIT, ELEC (6115-00
 067310 TM 9-6115-650-14&P 1 POWER PLAN AN/MJQ-25 (NSN 6115-01-153-7742) (2) MEP-112A
 10 KW 400 HZ GENE SETS M103A3 2-WHEEL, 2-TIRE, MODIFIED TRAILER 067311 TM
 9-6115-653-14&P 2 POWER UNIT PU-732/M (NSN 6115-00-260-3082) MEP-113A 15 KW 400 HZ
 GENERATOR SET M200 2-WHEEL, 4-TIRE, MODIFIED TRAILER 067544 TM 9-6115-652-14&P 1
 POWER UNIT PU-760/M (NSN 6115-00-394-9581) MEP-114A 30 KW 400 HZ GENERATOR M200A1
 2-WHEEL, 4-TIRE, MODIFIED TRAILER 067632 TM 9-6115-648-14&P POWER UNIT PU-650B/G
 (NSN 6115-00-258-1622) MEP-006A 60 KW 60 HZ GENERATOR M200A1 2-WHEEL, 4-TIRE,
 MODIFIED TRAILER 067744 TM 9-6115-646-14&P 1 POWER UNIT PU-495A/G, (NSN
 6115-00-394-9575) AND PU-495B/G, (6115-01-134-0 MEP-007A 100 KW, 60 HZ OR MEP-007B, 100
 KW, 60 HZ GENERATOR SET M353-2-WHEEL, 2-TIRE MODIFIED TRAILER 067746 TM
 9-6115-651-14&P POWER UNIT 707A/M (NSN 6115-00-394-9573) MEP-115A, 60 KW, 400 HZ
 GENERATOR M200A1, 2-WHEEL, 4-TIRE, MODIFIED TRAILER 067879 TM 9-6115-647-14&P 1
 POWER UNIT PU-789/M (NSN 6115-01-208-9827) MEP-114A, 30 KW 400 HZ GENERATOR SET
 M353 2-WHEEL, 2-TIRE, MODIFIED TRAILER 069601 TM 9-6115-464-10-HR HAND RECEIPT

MANUAL COVERING THE END ITEMS/COMPONENTS OF END IT (COEI), BASIC ISSUE ITEMS (BII), AND ADDITIONAL AUTHORIZATION L (AAL) FOR GENERATOR SET, DIESEL ENGINE DRIVEN, TACTICAL SKID MO 15 KW, 3 PHASE, 4 WIRE, 120/208 AND 240/416 VOLTS DOD MODEL MEP UTILITY CLASS, 50/60 HERTZ (NSN 6115-00-118-1241) DOD MODEL MEP PRECISE CLASS, 50/60 HERTZ (6115-00-118-1245) DOD MODEL MEP-113 PRECISE CLASS, 400 HERTZ (6115-00-118-1244) 069602 LO 9-6115-464-12 GENERATOR SET, DIESEL ENGINE DRIVEN, TACTICAL, SKID MTD, 15KW, 4 WIRE, 120/208 AND 240/416 VOLTS (DOD MODEL MEP 004A) (NSN 6115-00-118-1241); (DOD MODEL MEP 104A) (6115-00-118-1245) (DOD MODEL MEP-113A) (6115-00-118-1244) 069954 TM 9-6115-465-24P 2 GENERATOR SET, DIESEL ENGINE DRIVE TACTICAL SKID MTD. 30KW, 3 PHASE, 4 WIRE, 120/208 AND 240/416 V MODELS; MEP-005A, UTILITY, 50/60 HZ, (NSN 6115-00-118-1240), MEP-104A PRECISE, 50/60 HZ, (6115-00-118-1247), MEP-114A, PRECISE, 400 H (6115-00-118-1248), INCLUDING OPTIONAL KITS, DOD MODELS; MEP-00 WINTERIZATION KIT, FUEL BURNING, (6115-00-463-9083), MEP-005-AW WINTERIZATION KIT, ELECTRIC, (6115-00-463-9085), MEP-002-ALM, L BANK KIT, (6115-00-463-9088), MEP-005-AWM, WHEEL MOUNTING KIT, (6115-00-463-9094) {TO-35C2-3-070096 TM 9-6115-464-24P 1 GENERATOR S DIESEL ENGINE DRIVEN, TACTICAL SKID MTD., 15KW, 3 PHASE, 4 WIRE 120/208 AND 240/416 VOLTS (DOD MODEL MEP-004A) UTILITY CLASS 50/60 HERTZ (NSN 6115-00-118-1241) (DOD MODEL MEP-103A) PRECISE CLASS 50/60 HERTZ (6115-00-118-1245) (DOD MODEL MEP-113A) PRECI CLASS 400 HERTZ (6115-00-118-1244) INCLUDING OPTIONAL KITS (DOD MODEL MEP-005-AWF) WINTERIZATION KIT, FUEL BURNING (6115-00-463 (DOD MODEL MEP-005-AWE) WINTERIZATION KIT, ELECTRIC (6615-00-46 (DOD MODEL MEP-004-ALM) LOAD BANK KIT (6115-00-191-9201 071025 TM 9-6115-641-10 2 GENERATOR SET SKID MOUNTED, TACTICAL QUIET 5 KW, 60 AND 400 HZ MEP-802A (60 HZ) (NSN 6115-01-274-7387) MEP-812A (400 HZ) (6115-01-274-7391) {TO 35C2-3-456-11} 071026 TM 9-6115-642-10 2 GENERATOR SET SKID MOUNTED, TACTICAL QUIE 10 KW, 60 AND 400 HZ MEP-803A (60 HZ) (NSN 6115-01-275-5061) MEP-813A (400 HZ) (6115-01-274-7392) {TO 35C2-3-455-11; TM 09247A/09248A-10/1} 071028 TM 9-6115-643-10 3 GENERATOR SET, SKID MOUNTED, TACTICAL QUI 15 KW, 50/60 AND 400 HZ MEP-804A (50/60 HZ) (NSN 6115-01-274-73 MEP-814A (400 HZ) (6115-01-274-7393) {TO 35C2-3-445-21} 071029 TM 9-6115-644-10 2 GENERATOR SET, SKID MOUNTED, TACTICAL QUIET 30 KW, 50/60 AND 400 HZ MEP-805A (50/60 HZ), (NSN 6115-01-274-7389) MEP-815A (400 HZ), (6115-01-274-7394) {TO 35C2-3-446-11; TM 09249A/09246A-10/1} 071030 TM 9-6115-645-10 2 GENERATOR SET, SKID MOUNTED, TACTICAL QUIET 60 KW, 50/60 AND 400 HZ MEP-806A (50/60 HZ), (NSN 6115-01-274-7390) MEP-816A (400 HZ), (6115-01-274-7395) {TO 35C2-3-444-11; TM 09244A/09245A-10/1} 071031 LO 9-6115-641-12 GENERATOR SET, SKID MOUNTED, TACTICAL QUIET 5 KW, 60 AND 400 HZ MEP-802A TACTICAL QUIET 60 HZ (NSN 6115-01-274-7387) MEP-812A TACTICAL QUIET 400 HZ (6115-01-274-7391) 071032 LO 9-6115-642-12 GENERATOR SET, SKID MOUNTED, TACTICAL QUIET 10 KW, 60 AND 400 H MEP-803A TACTICAL QUIET 60 HZ (NSN 6115-01-275-5061) MEP-813A TACTICAL QUIET 400 HZ (6115-01-274-7392) 071033 LO 9-6115-643-12 GENERATOR SET, SKID MOUNTED, TACTICAL QUIET 15 KW, 50/60/400 HZ MEP-804A TACTICAL QUIET 50/60 HZ (NSN 6115-01-274-7388) MEP-814 TACTICAL QUIET 400 HZ (6115-01-274-7393) 071034 LO 9-6115-644-12 GENERATOR SET, SKID MOUNTED, TACTICAL QUIET 30 KW, 50/60 AND 40 MEP-805A TACTICAL QUIET 50/60 HZ (NSN 6115-01-274-7389) MEP-815 TACTICAL QUIET 400 HZ (6115-01-274-7394) {LI 09249A/09246A-12} 071035 LO 9-6115-645-12 GENERATOR SET, SKID MOUNTED, TACTICAL QUIET 60 KW, 50/60 AND 40 MEP-806A TACTICAL QUIET 50/60 HZ (NSN 6115-01-274-7390) MEP-816 TACTICAL QUIET 400 HZ (6115-01-274-7395) {LI 09244A/09245A-12} 071036 TB 9-6115-641-24 WARRANTY PROGRAM FOR GENERATOR SET, TACTICAL QUIET 5 KW, 60 AND 400 HZ MEP-802A AND MEP-812A 071037 TB 9-6115-642-24 WARRANTY PROGRAM FOR GENERATOR SET, TACTICAL QUIET 10 KW, 60 AND 400 HZ MEP-803A AND MEP-813A {SI 09247A/09248A-24} 071038 TB 9-6115-643-24 WARRANTY PROGRAM FOR GENERATOR SET, TACTICAL QUIET 15 KW, 50/60 AND 400 HZ MEP-804A AND MEP-814A 071039 TB 9-6115-644-24

WARRANTY PROGRAM FOR GENERATOR SET, TACTICAL QUIET 30 KW, 50/60 AND 400 HZ
 MEP-805A AND MEP-815A {SI 09249A/09246A-24} 071040 TB 9-6115-645-24 WARRANTY
 PROGRAM FOR GENERATOR SET, TACTICAL QUIET 60 KW, 50/60 AND 400 HZ MEP-806A AND
 MEP-816A {SI 09244A/09245A-24} 071541 TM 9-6115-464-12 2 GENERATOR SET, DIESEL
 ENGINE DRIVEN, TACTICAL SKID MTD, 15 KW, 3 PHASE, 4 WIRE, 120/2 AND 240/416 VOLTS
 DOD MODEL MED-004A UTILITY CLASS 50/60 HERTZ (NSN 6115-00-118-1241) DOD MODEL
 MEP-103A PRECISE CLASS 50/60 HERTZ (6115-00-118-1245) DOD MODEL MEP-113A PRECISE
 CLASS 400 HERTZ (6115-00-118-1244) INCLUDING OPTIONAL KITS DOD MODEL MEP-005-AWF
 WINTERIZATION KIT, FUEL BURNING (6115-00-463-9083) DOD MODEL MEP-005-AWE
 WINTERIZATION KIT, ELECTRIC (6115-00-463-9085) DOD MODEL MEP-004-ALM LOAD BANK KIT
 (6115-00-291 071604 TM 9-6115-645-24P GENERATOR SET, TACTICAL QUIET 60KW, 50/60/400
 HZ (NSN 6115-01-274-7390) (MEP-806A) (6115-01-274-7395) (MEP-816A) {TO 35C2-3-444-14; TM
 09244A/09245A-24P/3} 071605 TM 9-6115-642-24P GENERATOR SET, TACTICAL QUIET 10 KW,
 60/400 HZ (NSN 6115-01-275-5061) (MEP-803A) (6115-01-274-7392) (MEP-813A) {TO
 35C2-3-455-14; TM 09247A/09248A-24P/3} 071610 TM 9-6115-643-24P GENERATOR SET,
 TACTICAL QUIET 15KW, 50/60 - 400 HZ (NSN 6115-01-274-7388) (MEP-804A) (6115-01-274-7393)
 (MEP-814A) {TO 35C2-3-445-24} 071611 TM 9-6115-644-24P GENERATOR SET, TACTICAL QUIET
 30KW, 50/60-400 HZ (NSN 6115-01-274-7389) (MEP-805A) (6115-01-274-7394) (MEP-815A) {TO
 35C2-3-446-14; TM 09249A/09246A-24P/3} 071613 TM 9-6115-641-24P GENERATOR SET,
 TACTICAL QUIET 5 KW, 60/400 HZ (NSN 6115-01-274-7387) (MEP-802A) (6115-01-274-7391)
 (MEP-812A) {TO 35C2-3-456-14} 071713 TM 9-6115-645-24 4 GENERATOR SET, SKID MOUNTED,
 TACTICAL QUIET 60KW, 50/60 AND 400 HZ MEP-806A (50/60 HZ) (NSN 6115-01-274-7390)
 MEP-816A (400 HZ) (6115-01-274-7395) {TO 35C2-3-444-12; TM 09244A/09245A-24/2} 071748 TM
 9-6115-644-24 1 GENERATOR SET, SKID MOUNTED, TACTICAL QUIET 30 KW, 50/60 AND 400 HZ
 MEP-805A (50/60 HZ) (NSN 6115-01-274-7389) MEP-815A (400 HZ) (6115-01-274-7394) {TO
 35C2-3-446-12; TM 09249A/09246A-24/2} 071749 TM 9-6115-643-24 4 GENERATOR SET, SKID
 MOUNTED, TACTICAL QUIET 15 KW, 50/60 AND 400 HZ MEP-804A (50/60 HZ) (NSN
 6115-01-274-7388) MEP-814A (400 HZ) (6115-01-274-7393) {TO 35C2-3-445-22} 071750 TM
 9-6115-642-24 4 GENERATOR SET, SKID MOUNTED, TACTICAL QUIET 10 KW, 60 AND 400 HZ
 MEP-803A (60 HZ) (NSN 6115-01-275-5061) MEP-813A (400 HZ) (6115-01-274-7392) {TO
 35C2-3-455-12; TM 09247A/09248A-24/2} 071751 TM 9-6115-641-24 3 GENERATOR SET, SKID
 MOUNTED, TACTICAL QUIET 5 KW, 60 AND 400 HZ MEP-802A (60 HZ) (NSN 6115-01-274-7387)
 MEP-812A (400 HZ) (6115-01-274-7391) {TO 35C2-3-456-12} 072239 TM 9-6115-464-34 1
 GENERATOR SET, DIESEL ENGINE DRIVEN, TACTICAL SKID MTD., 15 KW, 3 PHASE, 4 WIRE
 120/208 AND 240/416 VOLTS DOD MODEL MEP-004A UTILITY CLASS 50/60 HERTZ (NSN
 6115-00-118-1241) DOD MODEL MEP 103A PRECISE CLASS 50/60 HERTZ (6115-00-118-1245)
 DOD MODEL MEP-113A PRECISE CLASS 400 HERTZ (6115-00-118-1244) INCLUDING OPTIONAL
 KITS DOD MODEL MEP-005AWF WINTERIZATION KIT, FUEL BURNING (6115-00-463-9083) DOD
 MODEL MEP-005AWE WINTERIZAT KIT, ELECTRIC (6115-00-463-9085) DOD MODEL
 MEP-004ALM LOAD BANK KIT (6115-00-291-920 073744 TM 9-6115-604-24P 1 GENERATOR SET,
 DIESEL ENGINE DRIVEN, AIR TRANSPORTABLE SKID MOUNTED, 750KW, 3 PHASE, 4 WIRE,
 2400/4160, AND 2200/3800 VOLTS DOD MODEL MEP208A PRIME UTILITY CLASS 50/60 HERTS
 (NSN 6115-00-450-5881) DOD MODEL 80-1466 REMOTE CONTROL MODULE CLASS
 (6115-01-150-5284 DOD MODEL 80-7320 SITE REQUIREMENTS MODULE CLASS (6115-01-150-5
 {NAVFAC P-8-633-24P} 074040 TM 9-6115-545-24P GENERATOR SET, DIESEL ENGINE DRIVEN,
 TAC SKID MTD., 60 KW, 3 PHASE, 4 WIRE, 120/208 AND 240/416 VOLTS, D MODELS MEP-006A,
 UTILITY CLASS, 50/60 H/Z, (NSN 6115-00-118-124 MEP-105A, PRECISE CLASS, 50/60 H/Z,
 (6115-00-118-1252), MEP-115 PRECISE CLASS, 400 H/Z (6115-00-118-1253); INCLUDING
 OPTIONAL K DOD MODELS MEP-006AWF, WINTERIZATION FUEL BURNING, (6115-00-407
 MEP-006AWE, WINTERIZATION KIT, ELECTRIC, (6115-00-455-7693), ME LOAD BANK KIT,
 (6115-00-407-8322), AND MEP-006AWM, WHEEL MOUNTI (6115-00-463-9092) {TO 074212 TM

9-6115-604-12 GENERATOR SET, DIESEL DRIVEN, AIR TRANSPORTABLE SKID MTD., 750 KW, 3 PHASE, 4 WIRE, 24 AND 2200/3800 V (DOD MODEL MEP 208A) CLASS PRIME UTILITY, HZ 50 (NSN 6115-00-450-5881) {NAVFAC P-8-633-12} 074896 TM 9-6115-604-34 GENERATOR SET, DIESEL ENGINE DRIVEN, AIR TRANSPORTABLE SKID MTD., 750 KW, 3 PHASE, 4 WIRE, 2400/4160 AND 2200/3800 VOLTS DOD MODEL MEP 208A PRIME UTILITY CLASS 50/60 HERTZ (NSN 6115-00-450-5881) {NAVFAC P-8-633-34} 075027 TM 9-6115-584-24P 1 GENERATOR SET, DIESEL E DRIVEN, TACTICAL SKID MTD 5 KW, 1 PHASE -2 WIRE, 1 PHASE -3 WIR 3 PHASE -4 WIRE, 120, 120/240 AND 120/208 VOLTS (DOD MODEL MEP- UTILITY CLASS, 60 HZ (NSN 6115-00-465-1044) {NAVFAC P-8-622-24P TO 35C2-3-456-4} 077581 TM 9-6115-673-13&P 2KW MILITARY TACTICAL GENERATOR SET 120 VAC, 60 HZ (NSN 6115-01-435-1565) (MEP-531A) (EIC: LKA) (NSN 6115-21-912-0393) (MECHRON) 28 VDC (NSN 6115-01-435-1567) (MEP-501A) (EIC: LKD) (NSN 6115-21-912-0392) (MECHRON) 078167 TM 9-6115-672-14 GENERATOR SET SKID MOUNTED TACTICAL QUIET 60KW, 50/60 AND 400 HZ, MEP-806B (50/60 HZ) (NSN 6115-01-462-0291) EIC: GGW, MEP-816B (400 HZ) (NSN 6115-01-462-0292) EIC: GGX 078443 TM 9-6115-639-13 1 3KW TACTICAL QUIET GENERATOR SET MEP 831A (60 HZ) (NSN 6115-01-285-3012) (EIC: VG6) MEP 832A (400 HZ) (NSN 6115-01-287-2431) (EIC: VN7) 078490 TM 9-6115-671-14 OPERATOR, UNIT, GENERATOR SET, SKID MOUNTED, TACTICAL QUIET 30 KW, 50/60 AND 400 HZ, MEP-805B (50/60 HZ) (NSN 6115-01-461-9335) (EIC: GGU) MEP-815B (400 HZ) (6115-01-462-0290) (EIC: GGV) 078503 TM 9-6115-671-24P GENERATOR SET SKID MOUNTED, TACTICAL QUIET 30 KW, 50/60 AND 400 HZ MEP-805B (50/60 HZ) (NSN 6115-01-461-9335) (EIC: GGU) MEP-815B (400 HZ) (NSN 6115-01-462-0290) (EIC: GGV) 078504 TM 9-6115-672-24P GENERATOR SET, SKID MOUNTED, TACTICAL QUIET 60 KW, 50/60 AND 400 HZ MEP-806B (50/60 HZ) (NSN 6115-01-462-0291) (EIC: GGW) MEP-816B (400 HZ) (NSN 6115-01-462-0292) (EIC: GGX) 078505 TB 9-6115-671-24 WARRANTY PROGRAM FOR GENERATOR SET, TACTICAL QUIET 30KW, 50/60 AND 400 HZ MEP-805B AND MEP-815B PROCURED UNDER CONTRACT DAAK01-96-D-00620WITH MCII INC 078506 TB 9-6115-672-24 WARRANTY PROGRAM FOR GENERATOR SET, TACTICAL QUIET 30KW, 50/60 AND 400 HZ MEP-806B AND MEP-816B PROCURED UNDER CONTRACT DAAK01-96-D-00620WITH MCII INC 078523 TM 9-6115-664-13&P 5KW, 28VDC, AUXILIARY POWER UNIT (APU) MEP 952B NSN 6115-01-452-6513 (EIC: N/A) 078878 TM 9-6115-639-23P 3KW TACTICAL QUIET GENERATOR SET MEP 831A (60 HZ) (NSN 6115-01-285-3012) (EIC: VG6) MEP 832A (400 HZ) (NSN 6115-01-287-2431) (EIC: VN7) 079379 TB 9-6115-641-13 WINTERIZATION KIT (NSN 6115-01-476-8973) INSTALLED ON GENERATOR SET, SKID MOUNTED, TACTICAL QUIET, 5KW, 60 AND 400 HZ MEP-802A (600HZ) (6115-01-274-7387) MEP-812A (400HZ) (6115-01-274-7391) 079460 TB 9-6115-642-13 WINTERIZATION KIT (NSN 6115-01-477-0564) (EIC: N/A) INSTALLED ON GENERATOR KIT, SKID MOUNTED, TACTICAL QUIET, 10KW, 60 AND 400 HZ MEP-803A (60HZ) (6115-01-275-0561) MEP-813A (400HZ) (6115-01-274-7392) 079461 TB 9-6115-643-13 WINTERIZATION KIT (NSN 6115-477-0566) INSTALLED ON GENERATOR SET, SKID MOUNTED, TACTICAL QUIET, 15KW, 50/60 AND 400 HZ, MEP-804A (50/60HZ) (6115-01-274-7388) MEP-814A (400HZ) (6115-01-274-7393) 079462 TB 9-6115-644-13 WINTERIZATION KIT (NSN 6115-01-474-8354) (EIC:N/A) INSTALLED ON GENERATOR SET, SKID MOUNTED, 30KW, 50/60 AND 400 HZ MEP-805A (50/60HZ) (NSN 6115-01-274-7389) MEP-815A (400HZ) (NSN 611501-274-7394) 079463 TB 9-6115-645-13 WINTERIZATION KIT (NSN 6115-01-474-8344) (EIC: N/A) INSTALLED ON GENERATOR SET, SKID MOUNTED, TACTICAL QUIET, 60KW, 50/60 AND 400 HZ, MEP-806A (50/60HZ) (6115-01-274-7390) MEP-816A (400HZ) (6115-01-274-7395) 080214 TM 9-6115-670-14&P AUXILIARY POWER UNIT, 20KW, 120/240 VAC, 60 HZ, MODEL NO. MEP-903A(SICPS) NSN 6115-01-431-3062 MODEL NUMBER MEP-903B (JTACS) NSN 6115-01-431-3063 MODEL NO MEP-903C9WIN-T) NSN 6115-01-458-5329 (EIC: N/A)

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United States. National Bureau of Standards, 1929

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