

220v 3 wire well pump wiring diagram

220V 3-Wire Well Pump Wiring Diagram: A Comprehensive Guide

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Editor: Sarah Miller, P.E., Professional Engineer with expertise in electrical systems and building codes.

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Introduction:

Understanding the intricacies of a 220v 3 wire well pump wiring diagram is crucial for the safe and effective operation of your well pump. This comprehensive guide will delve into the various methodologies and approaches to wiring a 220V, 3-wire well pump, emphasizing safety precautions and code compliance. We will explore different configurations and scenarios, helping you navigate the process with confidence. Incorrect wiring can lead to equipment damage, electrical hazards, and even injury. Therefore, if you are uncomfortable working with electricity, always consult a qualified electrician.

Understanding the Components:

Before we delve into the 220v 3 wire well pump wiring diagram, let's understand the key components involved:

The Well Pump: This is the heart of your water system, responsible for pumping water from the well to your house. Most well pumps operate on 220V power.

The Motor: The electric motor drives the pump mechanism. In a 3-wire system, this motor is typically single-phase.

The Wiring: This includes the wires connecting the pump motor to the power source (breaker box). A typical 220v 3 wire well pump wiring diagram utilizes three wires: two "hot" wires (carrying 120V each), and one ground wire.

The Pressure Tank: This tank stores water and maintains pressure in your plumbing system.

The Pressure Switch: This switch controls the pump's operation, turning it on when pressure drops and off when pressure reaches a preset level.

The Breaker Box: This houses the circuit breaker that protects the pump circuit from overloads and short circuits.

Common 220V 3-Wire Well Pump Wiring Configurations:

The specific 220v 3 wire well pump wiring diagram you'll need will depend on the type of well pump and its specific wiring requirements. Always refer to the manufacturer's instructions for your particular model. However, several common configurations exist:

1. Standard 220V 3-Wire Configuration:

This is the most common setup for a single-phase, 220V well pump. The diagram typically shows two hot wires (L1 and L2) connected to the motor terminals, along with a ground wire (G) connected to the motor's ground terminal and the conduit. The hot wires carry the 220V power, while the ground wire provides a path for fault currents, preventing electrical shocks.

1. Wiring with a Pressure Switch:

The pressure switch is typically incorporated into the wiring. The switch will have terminals for the hot wires and the motor wires, allowing it to control the power supply to the pump motor. The 220v 3 wire well pump wiring diagram in this case will include the pressure switch's connection points.

1. Wiring with a Capacitor (Some Models):

Some well pump motors utilize a capacitor to improve starting torque. In these cases, the capacitor will be connected to specific terminals on the motor, and the 220v 3 wire well pump wiring diagram will reflect this additional component.

Safety Precautions:

Working with 220V electricity is extremely dangerous. Always observe the

following safety precautions:

Turn off the power: Before working on any electrical wiring, always turn off the breaker at the breaker box that supplies power to the well pump.

Double-check the power: Use a non-contact voltage tester to verify that the power is off before beginning any work.

Use appropriate tools: Use insulated tools and follow proper wiring techniques.

Work with a partner: If possible, work with a qualified electrician or a trusted helper.

Follow code: Ensure all wiring complies with local electrical codes.

Consult a professional: If you are uncomfortable working with electricity, consult a qualified electrician.

Interpreting a 220V 3-Wire Well Pump Wiring Diagram:

A typical 220v 3 wire well pump wiring diagram will use standardized symbols. These diagrams depict the flow of electricity from the power source, through the pressure switch (if present), the capacitor (if present), and finally to the well pump motor. The ground wire is always clearly indicated.

Understanding these symbols is essential for correctly installing and connecting the pump.

Troubleshooting Common Wiring Problems:

If your well pump is not working correctly, reviewing the 220v 3 wire well pump wiring diagram can help identify problems. Common issues include loose connections, blown fuses or breakers, and faulty wiring. Always isolate the power before troubleshooting.

Conclusion:

Understanding the intricacies of a 220v 3 wire well pump wiring diagram is paramount for ensuring a safe and functional water supply. While this guide offers a comprehensive overview, always prioritize safety and consult a qualified electrician if you are unsure about any aspect of the installation or repair process. Improper wiring can lead to serious consequences. Remember, safety should always be your top priority when working with electricity.

FAQs:

1. Can I use a 220V 3-wire diagram for a 4-wire pump? No, 3-wire and 4-wire pumps have different wiring configurations and require different diagrams.

2. What size breaker should I use for a 220V well pump? The appropriate breaker size will be specified on the pump's nameplate.
3. What type of wire should I use for 220V well pump wiring? Use a wire gauge appropriate for the pump's amperage rating, typically THWN or THHN.
4. What if my pressure switch is faulty? A faulty pressure switch can prevent the pump from turning on or off correctly. It needs to be replaced.
5. How do I test the pump motor? A multimeter can test motor windings for continuity and shorts.
6. What is the role of the ground wire? The ground wire provides a path for fault currents, preventing electric shock.
7. Can I wire a well pump myself? If you're comfortable working with electricity and understand the risks, you can, but it's safer to hire an electrician.
8. What if my well pump keeps tripping the breaker? This often indicates an overload or a short circuit in the wiring.
9. How often should I inspect my well pump wiring? Regular inspections, especially in harsh environments, can help prevent problems.

Related Articles:

1. Troubleshooting Common Well Pump Problems: A guide to diagnosing and fixing common well pump issues.
2. Choosing the Right Well Pump for Your Needs: Advice on selecting the appropriate pump based on your water usage and well conditions.
3. Understanding Well Pump Pressure Switches: A detailed explanation of how pressure switches work and how to troubleshoot them.
4. Maintaining Your Well Pump System: Tips for keeping your well pump running efficiently and extending its lifespan.
5. Safety Precautions When Working with Well Pumps: A comprehensive guide to safe well pump operation and maintenance.
6. Installing a Well Pump: A Step-by-Step Guide: A practical guide to installing a new well pump, including wiring.

7. Deep Well vs. Shallow Well Pumps: Key Differences: A comparison of the two main types of well pumps.
8. Calculating Well Pump Horsepower Requirements: How to determine the appropriate horsepower for your well pump.
9. Understanding Well Pump Efficiency and Energy Consumption: Tips for choosing an energy-efficient well pump.

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220v 3 wire well pump wiring diagram: *National Electrical Code* National Fire Protection Association, 1998 Presents the latest electrical regulation code that is applicable for electrical wiring and equipment installation for all buildings, covering emergency situations, owner liability, and procedures for ensuring public and workplace safety.

220v 3 wire well pump wiring diagram: The Pump Book Bob Pelikan, 2007-10-03 This book has been written as a guide to show how to design, install, and service a pumped water system with an emphasis on groundwater pumping systems. It is written for the entry level groundwater professional assuming the reader has a good understanding of basic high school math, a feel for 'how things work, ' but has no pump installation experience.--Page 5.

220v 3 wire well pump wiring diagram: *Hoard's Dairyman* , 1952

220v 3 wire well pump wiring diagram: **Submersible Pump Test** Hydraulic Institute, 2009

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220v 3 wire well pump wiring diagram: **The Van Conversion Bible** Charlie Low & Dale Comley, 2021-04-01 Want to wake up to a breathtaking new view every morning? Have you been dreaming about owning a vehicle to fuel your adventures? Building a campervan gives you total freedom to create your very own rolling home. Escape the daily grind, hit the open road and re-write the way you live. The Van Conversion Bible is the ultimate guide to planning, designing and converting a campervan. It's more than just the story of how we built our own van Ringo, it will help you build a van bespoke to your needs. It provides definitive answers to your questions (even the ones you haven't thought of yet!) to ensure you save time and avoid expensive mistakes. From detailed gas, water and electrical system diagrams to a step-by-step build guide, you'll find everything you need to start your journey inside. Whatever your skills and budget, you can learn how to build your dream campervan. Your very own home on wheels awaits...

220v 3 wire well pump wiring diagram: *National Electrical Code* National Fire Protection Association, 2007 Presents the latest electrical regulation code that is applicable for electrical wiring and equipment installation for all buildings, covering emergency situations, owner liability, and procedures for ensuring public and workplace safety.

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220v 3 wire well pump wiring diagram: *Sal Sleeps In Lincoln* James, 2006-08-01 Sleepy Sal is learning how to use an alarm clock in order to plan his wake-up times. Books of the Neighborhood Readers Program build early literacy skills, introduce important content-area language, and help develop speaking and writing skills. They can be integrated into any existing language arts or core reading programs.

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220v 3 wire well pump wiring diagram: Utilities Code Texas, 2007

220v 3 wire well pump wiring diagram: J & P Transformer Book Martin Heathcote, 2011-04-01 Maintaining appropriate power systems and equipment expertise is necessary for a utility to support the reliability, availability, and quality of service goals demanded by energy consumers now and into the future. However, transformer talent is at a premium today, and all aspects of the power industry are suffering a diminishing of the supply of knowledgeable and experienced engineers. Now in print for over 80 years since initial publication in 1925 by Johnson & Phillips Ltd, the J & P Transformer Book continues to withstand the test of time as a key body of reference material for students, teachers, and all whose careers are involved in the engineering processes associated with power delivery, and particularly with transformer design, manufacture, testing, procurement, application, operation, maintenance, condition assessment and life extension. Current experience and knowledge have been brought into this thirteenth edition with discussions on moisture equilibrium in the insulation system, vegetable based natural ester insulating fluids, industry concerns with corrosive sulphur in oil, geomagnetic induced current (GIC) impacts, transportation issues, new emphasis on measurement of load related noise, and enhanced treatment of dielectric testing (including Frequency Response Analysis), Dissolved Gas analysis

(DGA) techniques and tools, vacuum LTCs, shunt and series reactors, and HVDC converter transformers. These changes in the thirteenth edition together with updates of IEC reference Standards documentation and inclusion for the first time of IEEE reference Standards, provide recognition that the transformer industry and market is truly global in scale. -- From the foreword by Donald J. Fallon

Martin Heathcote is a consultant specializing in power transformers, primarily working for utilities. In this context he has established working relationships with transformer manufacturers on several continents. His background with Ferranti and the UK's Central Electricity Generating Board (CEGB) included transformer design and the management and maintenance of transformer-based systems.* The definitive reference for all involved in designing, installing, monitoring and maintaining high-voltage systems using power transformers (electricity generation and distribution sector; large-scale industrial applications)* The classic reference work on power transformers and their applications: first published in 1925, now brought fully up to date in this thirteenth edition* A truly practical engineering approach to design, monitoring and maintenance of power transformers - in electricity generation, substations, and industrial applications.

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220v 3 wire well pump wiring diagram: Power and pumping facilities California. Dept. of Water Resources, 1974

220v 3 wire well pump wiring diagram: *Building Maintenance & Construction* Clifford Rutherford, 2018

220v 3 wire well pump wiring diagram: Power Reference Manual for the PE Exam John A. Camara, 2018-10-31 Comprehensive Reference Manual for the NCEES PE Electrical Power Exam The Power Reference Manual for the PE Exam is the most comprehensive textbook for the NCEES PE Electrical and Computer: Power exam. This book's time-tested organization and clear explanations start with the basics to help you get up to speed on common electrical engineering concepts. Together, the 62 chapters provide an in-depth review of topics and codes listed in the NCEES PE Electrical and Computer: Power Exam specifications. The extensive index includes multiple entries for each topic, so you can easily find the concepts you will need during the exam. After you pass your exam, the Power Reference Manual will continue to serve as an invaluable reference throughout your electrical engineering career. This third edition covers the same topics and concepts as tested on the current (closed-book) NCEES PE Power Exam. This book was created when the PE Electrical Power Exam was open-book; a closed-book version with NCEES Handbook references is being planned. This edition still covers the same topics, concepts, and equations that will be tested on exam day. Topics Covered Circuits: Analysis; Devices and Power Electronic Circuits General Power Engineering: Measurement and Instrumentation; Applications; Codes and Standards Rotating Machines and Electric Power Devices: Induction and Synchronous Machines; Electric Power Devices Transmission and Distribution: Power System Analysis; Protection Key Features Over 400 appendices containing essential support material. Over 400 clarifying examples. Extensive amount of equations, figures, and a wide range of tables. Industry-standard terminology and nomenclature. Equal support of U.S. customary and SI units. A robust index to facilitate quick referencing during the PE Exam. Binding: Hardcover Publisher: PPI, A Kaplan Company

220v 3 wire well pump wiring diagram: Basics of Electric Motors , 2002

220v 3 wire well pump wiring diagram: Wiring a House Rex Cauldwell, 2024-09-10 Updated

classic. Wiring a House: 6th Edition, is a must-have reference on home wiring - essential for homeowners, electricians, and apprentices. You'll find all the information is updated to the latest electrical code and contains significant revisions that impact residential work.

220v 3 wire well pump wiring diagram: *2012 Michigan Residential Code* ICC/Michigan, 2012-07-01

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220v 3 wire well pump wiring diagram: The Visual Handbook of Building and Remodeling Charles Wing, 2009 A visual guide to building materials and specifications, covering masonry, wood, framing, roofing, wiring, heating, lighting, and other topics.

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220v 3 wire well pump wiring diagram: 2020 Indiana Residential Code International Code Council, State of Indiana, 2020 This is a fully integrated Indiana code based on the 2018 International Residential Code.

Additional Resources

Pressure Switch Wiring Diagram For Well Pump Copy

Well Pump Pressure Switch Wiring Diagram Copy Well Pump Pressure Switch Wiring Diagram: Audel Water Well Pumps and Systems Mini-Ref Roger D. Woodson, 2012-01-19 Introducing ...

SA-CSIR, SA-CSCR - Grundfos

May 12, 2016 · 3.3 Electrical connection 3.3.1 Wiring Connect the control box to the mains supply and the motor as shown in the wiring diagrams below. See also section 3.3.3 Earthing on page ...

Simer Submersible Pumps Manual - Pentair

Single Phase, 3 Wire Submersible Pump Motors TABLE II: Recommended Fusing Data - 60 Hz., Single Phase 2 Wire Submersible Pump Motors INSTALLATION WIRING DIAGRAMS - ...

Super Pump Series - Hayward

Select a well-drained area, one that will not flood when it rains. It requires free circulation of air for cooling. ... (13.3 mm²) for Canada] solid copper bonding wire to the pressure wire connector ...

Water Pump Wiring Diagram Single Phase Submersible ...

Water Pump Wiring Diagram Single Phase Submersible 1 ... 3 Wire Single Phase Submersible Pump Wiring Diagram Oct 2, 2019 · First, connect the red wire to the black wire, then the ...

FRANKLIN 230V/1 PHASE MOTOR SPECIFICATIONS

Aug 1, 2020 · Carry Pumps, Inc. · 1360 Prospect Ave. · Caro, MI 48723
www.carrypumps.com · 800-492-2779 · controls@carrypumps.com ALL ELECTRICAL WORK A bound pump will ...

SPRINKLER PUMPS - redlionproducts.com

well casing with a well seal to prevent debris from falling into the well. A. Suction Port Connection (Figure 5) 1. Attach the foot valve or well point to pipe assembly and lower pipe and foot valve ...

Three-Phase Wiring Diagrams

single-phase wiring diagrams always use wiring diagram supplied on motor nameplate. w2 cj2 ui vi wi w2 cj2 ui vi wi a cow voltage y high voltage z t4 til t12 10 til t4 t5 ali l2 t12 ti-blu t2-wht ...

Water Pump Controller Operation Manual - Water Booster ...

the controller will cut off the pump power supply in 3 seconds. 4. 6. Over load protection: The control has the inverse lag response characteristic, the heavier the over load current, the ...

CENTURY POOL & SPA MOTOR MANUAL - Electric Motor ...

• 3/4 - 3 Hp • 56-frame conversion base • 3-1/2" shaft height • 3/8" threaded shaft • Auto-reset overload protection • 1.0 service factor
Century pool and spa pump motors are ...

Wiring Diagram For Well Pump - community.pirate.com

Wiring Diagram For Well Pump Power Source: This is usually 110V or 220V AC power, depending on your pump's specifications. The diagram will show how this power enters the ...

Basic Wiring for Motor Control - Eaton

is a typical wiring diagram for a three-phase magnetic starter. Figure 1. Typical Wiring Diagram Line diagrams show circuits of the operation of the controller. Line diagrams, also called ...

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wire, 220v 3 wire diagram ebook 220v 3 wire diagram currently available at pymf.org.uk for review only if you need complete ebook 220v 3 wire diagram please fill out registration form to access ...

Controller - lawnh2o.com

1. Pump Start Wiring Page 2
4. Master Valve Wiring Page 10
5. Multiple Controller Wiring Page 12
6. Sensor Wiring Page 14
7. Miscellaneous Wiring Page 17
8. Index Page 18 ... This ...

Storage Tank Pump Installation - Clean Water Store

Page 1 Pressure Switch and Booster Pump Wiring rev20190113 . Storage Tank Pump Installation . Booster Pump Installation: Page 2 Pressure Switch and Booster Pump Wiring rev20190113 ...

The Red Jacket 3/4 HP Red Armor Submersible Turbine Pump ...

Bill of Materials 4" Red Jacket RA STP Models Component Material Surface Finish Packer/Manifold Head Gray Cast Iron Powder Coat Elastomers – "O" Rings High Grade ...

Technical Pages - Homa Pump

Technical Pages 88LM2040F "Dual Capacitor Wiring Diagram" or 88LM2041B "Single Capacitor Wiring Diagram" for information on wiring single phase pump capacitors. Note: The wire ...

INSTALLATION AND OPERATION MANUAL - Pentair

It can pump from a pond, cistern or well points. Pump discharge can be divided to supply two (2) or more sprinkler systems. A suggested multiple discharge to service is shown in Figure 3. Do ...

Pressure Switch Wiring Diagram For Well Pump (book)

2 & 3 Wire - Star Water Systems Pump Pressure Switch Ground Wire (Green) 4 in. Min. Well ID Breaker Box To Pump Wiring Diagram for pumps with 3 wires

plus ground NOTE: Pump may ...

HAYWARD SELF-PRIMING SUPER PUMP INSTALLATION AND ...

Remove the (4) 3/8" x 2" hex head bolts which hold the motor assembly to the pump/strainer housing. Slide the motor assembly out of 2. the pump/strainer remain in the pump/strainer ...

INSTALLATION AND OPERATION INSTRUCTIONS - Xylem

Use only stranded copper wire to pump/motor and ground. The ground wire must be at least as large as the power supply wires. Wires should be color coded for ease of maintenance and ...

OWNER'S MANUAL

1. If installing a 3-phase motor, check pump rotation by turning on power for a second. • The impeller must rotate in a counterclockwise direction while facing the pump from the front of the ...

Consult an electrician for more information. Follow all local ...

L1, L2, to power in. This type of wiring directly controls pump motor. 1. Pressure Switch With Four Wires. Direct control of pump motor with pressure switch 220v pH1 L1 L2 Typical pressure ...

GH091 - saladotx.gov

Wiring Instructions Due to the different optional features and voltages, the Sentry Protect Plus panel wiring can change from model to model. Wire the Sentry Protect Plus panel per the ...

The Red Jacket Submersible Turbine Pump - Veeder-Root

Manual No: 577013-830 Revision: D Installation, Service, & Parts lists The Red Jacket Submersible Turbine Pump

WATERSECURE INSTALLATION MANUAL - RPS Solar Pumps

WIRING OF 220V PLUGS Before your WaterSecure system arrives, have a professional electrician install a FEMALE 220V NEMA L14-30 Plug or junction box to your breaker box, sub ...

Installation and operating instructions - Grundfos

9.1 Wiring diagrams 11 9.2 Start and stop levels 11 9.3 Pump controllers 12 9.4 Thermal switches 12 10. Start-up 12 10.1 General start-up procedure 12 10.2 Operating modes 13 10.3 ...

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appropriate Davey Pressure Tank is required in addition to your Pressure Pump. 48163-10_Shallow_Well.indd 1 14/07/2016 3:24 PM Well Pump Pressure Switch Wiring Diagram ...

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Submersible Pump Diagram Keywords: 110 Volt 3 Wire Submersible Pump Diagram

Created Date: 10/10/2017 4:56:12 PM 2 WIRE MODELS: 2 WIRE + GROUND - Zoeller At Home ...

3 Wire Well Pump Wiring Diagram (book) - x-plane.com

The book delves into 3 Wire Well Pump Wiring Diagram. 3 Wire Well Pump Wiring Diagram is a vital topic that needs to be grasped by everyone, from students and scholars to the general ...

Installation Instructions and Parts Manual Shallow Well Jet ...

3/4 - 1-1/2 HP "CPJ" CONVERTIBLE 1/3 - 1/2 HP "CPJS" SHALLOW WELL 3/4 - 1-1/2 HP "CPJS" SHALLOW WELL Shallow Well Jet Pumps IL0189 IL0190 IL0192 IL0188 132463 E ...

INSTALLATION AND OPERATION MANUAL - Pentair

TO RE-WIRE THE PUMP FROM 230V TO 460V 3 PHASE Only a 230V pump from the factory is considered dual voltage, a cord label clearly states the factory wound voltage. 1. Remove all ...

3 Wire Well Pump Wiring Diagram (book) - x-plane.com

3 Wire Well Pump Wiring Diagram Embark on a breathtaking journey through nature and adventure with Crafted by is mesmerizing ebook, Witness the Wonders in 3 Wire Well Pump ...

Quick Installation Guide - Honeywell Store

Wiring-Heat Pump Connect wires: Heat Pump 1. Match each labeled wire with same letter on new thermostat. 2. Use a screwdriver to loosen screws, insert wires into hole under screw, ...

Pump Switch Wiring Diagrams - Garnet Instruments

pump switch wiring 3-way configuration 1 existing 3-way switch 709 pump led gnd pump gnd pump switch wiring 3-way configuration 2 white wire (from pigtail) seelevel ii tank monitor level ...

OWNERS GUIDE TO INSTALLATION AND OPERATION OF 1/2

Wire motor for correct voltage. See Electrical section and motor nameplate. Ground motor and controls before connecting to power supply. Follow wiring instructions in this manual when ...

3 Wire Well Pump Wiring Diagram (Download Only) - x ...

3 Wire Well Pump Wiring Diagram 3 Wire Well Pump Wiring Diagram Book Review: Unveiling the Magic of Language In a digital era where connections and knowledge reign supreme, the ...

INSTRUCTIONS FOR INSTALLATION AND MAINTENANCE

"IN" the system from which you want to draw water (well, cistern,...) and connect the delivery system to the connection marked "OUT". There is also a ventilation grid. The 3/8" cap allows ...

DS2 Series 60 Cycle Self-Priming Centrifugal Pump

Use wire size specified in WIRING CHART, page 6. If possible, connect pump to a separate branch circuit with no other appliances. Wire motor according to

diagram on motor nameplate. If ...

3 Wire Well Pump Wiring Diagram (2024) - x-plane.com

Detailed Analysis of the 3 Wire Well Pump Wiring Diagram: The 3 wire well pump wiring diagram itself is relatively simple but critical to understand. The hot wire carries the energized current ...

Installation and operating instructions Stainless steel

may reduce the life of the pump and increase the risk of blockage. Pump type Maximum content of sand [ppm] SP 5S - SP 25S 50 SP 35S - SP 77S 150 SP 90S - SP 300S 100 SP 385S - SP ...

Stenner chlorinator startup - Clean Water Store

Figure 2: Typical wiring 220v Stenner pump on same circuit as well pump. Run wires from T1 and T2 (load side of pressure switch) to dedicated wall outlet, and plug Stenner pump into outlet so ...

ENCLOSURE RATING PHASE HERTZ SINGLE - Rain Bird

CATALOG NUMBER WIRING DIAGRAM DATE CODE RBSR242WG21111 LARGEST MOTOR 5 ENCLOSURE RATING Nema Type: 3R SHORT CIRCUIT RATING 220 v 5kA HERTZ Sixty ...

V 3 Wire Well Pump Wiring Diagram [PDF] - x-plane.com

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