



INSTALLATION AND MAINTENANCE INSTRUCTIONS INDUSTRIAL LIQUID IMMERSION HEATERS

WARNING

POWER MUST BE OFF BEFORE WORKING ON OR REMOVING HEATING ELEMENT. ALL ELECTRICAL WORK MUST BE DONE BY QUALIFIED PERSONNEL IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND APPLICABLE STATE AND LOCAL CODES.

WARNING RISK OF FIRE OR EXPLOSION

A APPROVED LIQUID LEVEL CONTROL MUST BE PROVIDED AS DESCRIBED IN THE CAUTION LABEL ON THE HEATER ENCLOSURE. IF THE HEATER ELEMENT IS NOT EQUIPPED WITH A HIGH TEMPERATURE LIMIT SWITCH OR THERMOSTAT, A TEMPERATURE CONTROL MUST BE ADDED.

CAUTION

INSTALLERS AND OPERATORS OF THE EQUIPMENT MUST BE THOROUGHLY FAMILIAR WITH THESE INSTRUCTIONS BEFORE COMMENCING WORK. HOT SURFACES ARE A POTENTIAL INJURY HAZARD. USE CAUTION WHEN WORKING ON OR AROUND THE HEATER.

NOTICE

THE IMMERSION ELEMENT MUST BE INSTALLED IN A LOCATION TO ASSURE COMPLETE IMMERSION OF ALL ELEMENT HEATING SURFACES AT ALL TIMES. PREMATURE ELEMENT FAILURE COULD RESULT. AVOID INSTALLATION WHERE THE HEATING ELEMENT IS IN CONTACT WITH SLUDGE AT OR NEAR THE BOTTOM OF THE TANK. MOUNTING THREADS SHOULD BE COVERED WITH PIPE COMPOUND TO ELIMINATE THE POSSIBILITY OF DAMAGE DURING INSTALLATION.

TERMINAL AND CONDUIT CONNECTIONS:

THE ELECTRICAL ENCLOSURE OF THE IMMERSION HEATING ELEMENT MUST REMAIN COVERED TO PROTECT TERMINALS FROM MOISTURE AND VAPOR. MAKE CERTAIN THAT PROPER COVERS ARE USED FOR THE INSTALLED CONDITIONS. (HAZARDOUS LOCATION, NEMA TYPE 4 WET LOCATION, STANDARD GENERAL PURPOSE)

TERMINATIONS IN ALL ENCLOSURES REQUIRE THE WIRE BE RATED AT A MINIMUM OF 105° C (221° F). SELECTED WIRE MUST BE SIZED IN ACCORDANCE WITH HEATER AMPERAGE.

MAINTENANCE:

TO ENSURE LONG LIFE OF THE ELEMENT, PERIODIC INSPECTION AND CLEANING OF THE HEATING ELEMENT TO REMOVE COATING AND CORROSION IS RECOMMENDED. SHUT OFF POWER BEFORE DISASSEMBLY AND USE CAUTION TO AVOID CONTACT WITH HOT SURFACES. RELIEVE PRESSURE BEFORE REMOVING ELEMENT FROM TANK.

TECHNICAL INFORMATION

KIM HOTSTART MANUFACTURING COMPANY

www.kimhotstart.com

CUSTOMER SUPPORT: (509) 536-8660

Registration to
ISO 9001

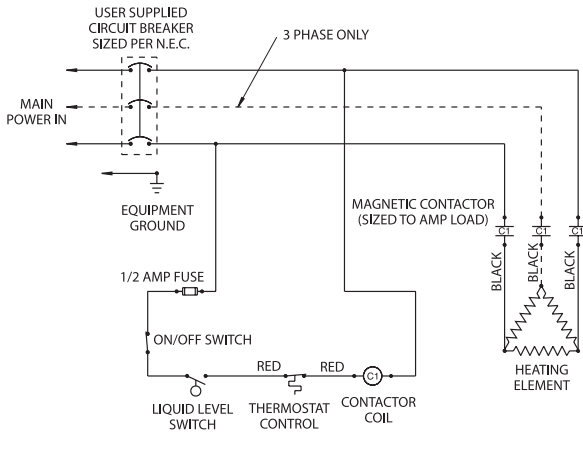


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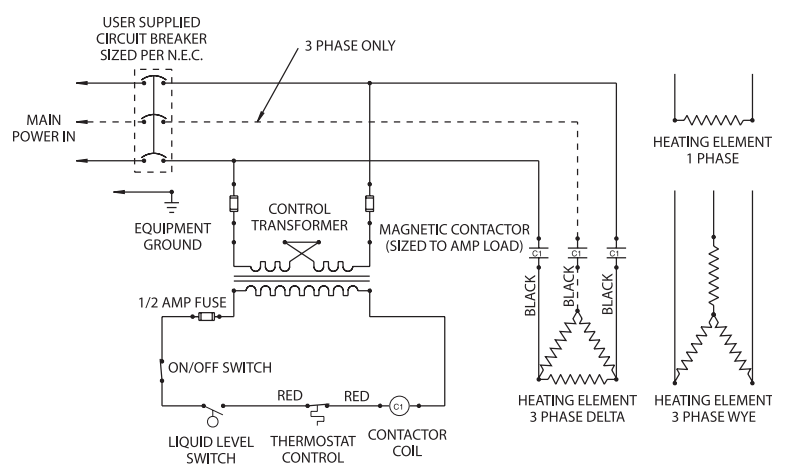
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WIRING DIAGRAMS HAZARDOUS LOCATION (CLASS I, GROUP D)



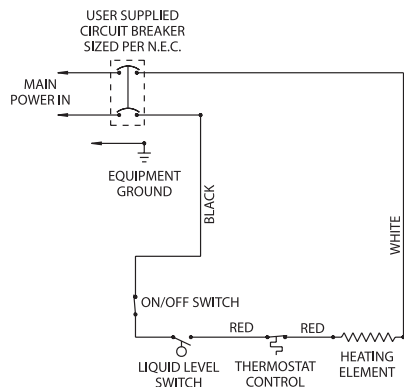
TYPICAL WIRING DIAGRAM

WIRING DIAGRAM FOR INDUSTRIAL HEATING ELEMENTS WITH INTERNAL THERMOSTAT
DRAWING IN EXCESS OF 15 AMPS AT 120, 240 VOLTS
OR 12 AMPS AT 277 VOLTS



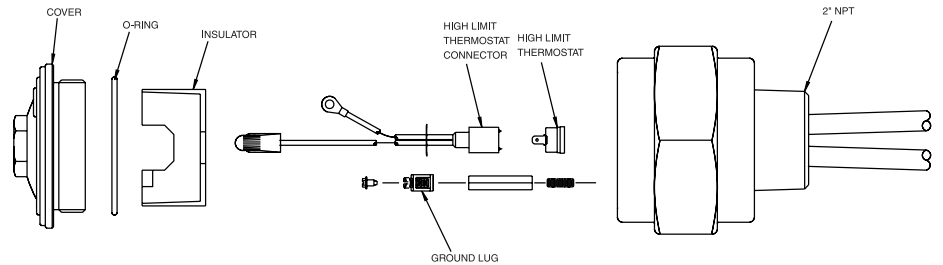
TYPICAL WIRING DIAGRAM

WIRING DIAGRAM FOR INDUSTRIAL HEATING ELEMENTS WITH INTERNAL THERMOSTAT
3 PHASE OR SINGLE PHASE OVER 277 VOLTS



TYPICAL WIRING DIAGRAM

WIRING DIAGRAM FOR INDUSTRIAL HEATING ELEMENTS WITH INTERNAL THERMOSTAT
DRAWING 15 AMPS OR LESS AT 120, 240 VOLTS
OR 12 AMPS OR LESS AT 277 VOLTS



NOTE: INSTALLERS AND END-USERS OF ELECTRICAL EQUIPMENT ASSUME FULL RESPONSIBILITY FOR COMPLIANCE WITH ALL NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

