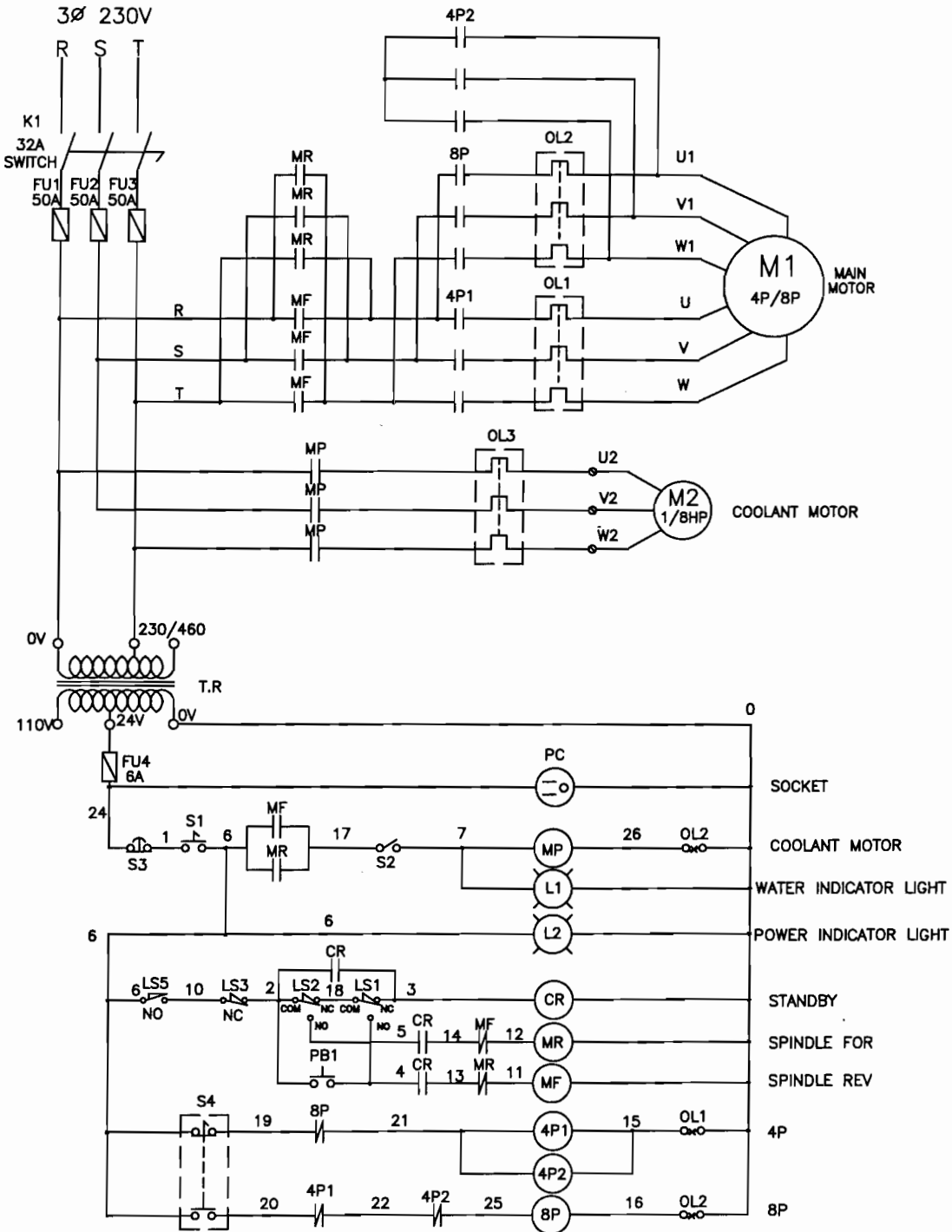


4. ELECTRICAL CIRCUIT AND LUBRICATION

4-1. ELECTRICAL CIRCUIT FOR DYNAMIC 20" SERIES



4-2. ELECTRICAL COMPONENTS

LS1: Forward Limit Switch

LS2: Reverse Limit Switch

LS3: Brake Limit Switch

LS4: Safety Limit Switch

LS5: Safety Limit Switch

M1: Main Spindle Motor

MF: Forward Magnetic Contactor

MR: Reverse Magnetic Contactor

M2: Coolant Pump Motor

MP: Pump Magnetic Contactor

L1: Water Indicator Light

L2: Power Indicator Light

PL1: Power Source Indicator

CR: Brake Auxiliary Relay

TR: Transformer

FS: Fuse

OL1: Main Motor Thermal Relay 4P

OL2: Main Motor Thermal Relay 8P

OL3: Coolant Pump Motor Thermal Relay

S1: Emergency Stop

S2: Coolant pump Switch

PB1: Jogging Button

PC: Plug Socket

4-3 POWER SOURCE WIRING

Be sure to protect exposed electrical wires on the lathe! They are liable to be damaged by metal chips. If they are damaged, they might induce an electrical short, and will lower the power efficiency. Check the rotation of the spindle after power is wired. It must be counterclockwise when the spindle is rotating. If not, switch two the three wires (R. S. T.), then check the rotation again.

4-4 CAUTION

After the spindle rotation is set, check the jogging button. If it is rotating clockwise, it is wired correctly. If not, there must be a wiring problem, please contact the manufacturer.

If the spindle speed drops to zero RPM during normal operation, but the pilot is still on. This indicates the thermal relay is overloaded and kick-out. Please turn off the main power, and reset the thermal overload relay. Then restart the machine. This will solve the problem and machine will start turning again.