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3. #16, #14, OR #12 STRANDED WIRE - EACH WITH 19 OR MORE STRANDS - FOR HINGE WIRING.

4. THERMOPLASTIC INSULATION WHERE THE OPERATING TEMPERATURE DOES NOT EXCEED ~~80°C AND TA WHERE THE OPERATING TEMPERATURE EXCEEDS 80°C BUT DOES NOT GO BEYOND 90°C.~~ AND RESISTORS ARE NOT PRESENT. USE TA WIRE WHERE THE TEMPERATURE DOES NOT EXCEED 90° C AND IN THE PRESENCE OF RESISTORS. SEE C1 BELOW.

5. EXCEPTIONS TO (1), (2), AND (3) ARE:

   a. ON HIGH QUANTITY STANDARD CONTROLLERS, SMALLER WIRE THAN #14 MAY BE USED IF SUITABLE.

   b. LIFTING MAGNETS AND CLUTCH CONTROLLERS REQUIRE #12 SOLID WIRE.

6. WHEN CONNECTORS ARE PROVIDED BETWEEN TERMINAL BOARDS ON ADJACENT PANEL BOARDS, CONNECTIONS SHOULD BE MADE BY USING STRANDED WIRE WITH THE SAME INSULATION AS THE WIRE FORM THE PANEL TO THE TERMINAL BOARD.

C. RESISTOR CIRCUIT

1. TA WIRE IS THE PREFERRED TYPE FOR CONNECTIONS TO STARTING, REGULATING, CONTINUOUS, ETC. DUTY RESISTORS WHERE DIELECTRIC STRENGTH IS OF IMPORTANCE

   a. THIS WIRE IS NOT TO BE FORMED IN A CABLE OR TO BE CLEATED TO GROUNDED METAL WITHIN THE HEAT ZONE. CABLING AND CLEATING OUTSIDE THE HEAT ZONE ARE ACCEPTED PRACTICE. (HEAT ZONE IS THE SPACE BETWEEN THE RESISTOR MATERIAL, WITHIN 6" ABOVE AND ALSO WITHIN 2" FROM THE SIDES AND BOTTOM OF THE RESISTOR.)

2. AIA WIRE IS LISTED WITH HIGHER TEMPERATURE AND CURRENT RATINGS THAN BARE WIRE BUT SHOULD BE USED ONLY AFTER CAREFUL CONSIDERATION. IT REPLACES THE OLD SB WIRE.

   a. AIA IS FOR USE WITH RESISTORS ON THOSE EXCEPTIONAL JOBS WHERE IT MAY BE EXPOSED TO EXTREME HEAT, BUT BECAUSE OF ITS MOISTURE ABSORBING QUALITIES IT IS SUBJECT TO THE FOLLOWING LIMITATIONS.

   b. WIRE MUST NOT TOUCH METAL PANELS, FRAMES OR CASES. TREAT THE SAME AS IF BARE WIRE.

   c. WIRES CONNECTING TO ONE SIDE OF THE LINE MAY BE CABLED. WIRES CONNECTING TO MORE THAN ONE POTENTIAL LINE OR TO MORE THAN ONE PHASE LINE IN A MOTOR SECONDARY CIRCUIT MUST NOT BE CABLED AND MUST BE SEPARATED THE SAME AS BARE WIRE. DO NOT USE METAL CABLE CLAMPS.

(CONT. FROM ML3355) (CONTINUED ON ML3357)

ML 3356 rev

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