ML 3355

THE FOLLOWING INSTRUCTIONS AND DATA APPLY TO THE WIRING OF CONTROLLERS WHERE THE POTENTIAL DOES NOT EXCEED 550 VOLTS NOMINAL.

A. APPLICATION ACCORDING TO TYPE OF INSULATION

1. USE BARE WIRE WHEREVER PRACTICABLE. THE COST OF BARE WIRE INSTALLED IS LES THAN ANY OTHER WIRE REGARDLESS OF INSULATION. IT IS ESPECIALLY ECONOMICAL FOR SHORT RUNS WITHOUT CROSS-OVERS AND WHERE FEW SUPPORTS ARE REQUIRED.

2. ⊙ THERMOPLASTIC INSULATED WIRE REFERENCED IN TABLES BY ⊙ HAS A MAXIMUM OPERATING TEMPERATURE LIMIT OF ~~80°C~~ 90°C IT DOES NOT HAVE A CODE TYPE DESIGNATION. IT SHOULD BE USED ONLY WHERE IT IS NOT EXPOSED TO HEAT FROM RESISTORS OR OTHER HEAT EMANATING DEVICES. IT IS APPRECIABLY CHEAPER THAN TYPE TA OR AVB WITH COMPARABLE CURRENT CARRYING CAPACITY, CODE OR TYPE "T" THERMOPLASTIC INSULATED WIRE HAS A MAXIMUM TEMPERATURE LIMIT OF 60°C

3. TA WIRE SHOULD BE USED FOR MAIN AND STARTING CIRCUITS WHERE LIMITATIONS SUCH AS TEMPERATURE PREVENT THE USE OF THERMOPLASTIC WIRE. TA WIRE MAY BE USED UNDER OIL OR FOR ANY GENERAL PURPOSE APPLICATION. THE MAXIMUM RATED OPERATING TEMPERATURE OF THIS WIRE IS 90°C.

4. ON SOME SPECIFIC JOBS AIA WIRE HAS APPLICATION AS MAIN WIRE. #4 AIA WIRE HAS A CURRENT AND TEMPERATURE LISTING HIGHER THAN #4 BARE WIRE AND MAY BE USED TO ADVANTAGE WITHIN ITS RATING IN PLACE OF BUS-BAR. HOWEVER, BECAUSE OF THE MOISTURE ABSORBING QUALITIES OF THE INSULATION, IT SHOULD BE SPACED AND SUPPORTED THE SAME AS BARE WIRE.

5. AVB WIRE IS INTERCHANGEABLE WITH TA. DO NOT SUBSTITUTE ONE TYPE FOR THE OTHER WITHOUT HAVING THE CHANGE RECORDED ON THE DATA SINCE CUSTOMER SPECIFICATIONS MAY BE INVOLVED. TA WIRE COSTS LESS THAN AVB WIRE AND IS, THEREFORE, OUR PREFERENCE. USE AVB WIRE ONLY WHEN REQUIRED BY SPECIFICATIONS, AND ONLY IF THE CUSTOMER SO INSISTS.

B. CONTROL CIRCUIT WIRING (FOR NAVY WIRING, SEE ML-2766, CLASS 98A54)

UNLESS OTHERWISE REQUIRED, SPECIFY -

1. #14 STRANDED WIRE - 19 STRANDS - WHEN THE WIRE IS TO BE LAID FLAT ON THE PANEL.

NOTE: ON SMALL STANDARDIZED CONTROLLERS #14 SOLID WIRE MAY BE USED BECAUSE OF SHOP PRACTICE.

2. #14 STRANDED WIRE, 19 STRANDS - WHEN THE WIRE IS TO BE CABLED OR LAID IN CHANNELS.

(CONTINUED FROM ML3354)

(CONTINUED ON ML3356)

TITLE DATA FOR LOW TENSION WIRING

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