

Rx60 controller construction.

To construct our own controller for the rx60 we will need in the way of hardware.

1. X6 stmbl v 4.4 boards
2. X1 7180DB-25 Ethernet Anything I/O card
3. X1 7174 Eight Channel RS-422/485 interface/ RJ45 Breakout
4. X13 shielded cat 7 ethernet cables
5. A host computer
6. The rx60s original transformer
7. The rx60s original bridge rectifiers
8. The rx60s original primary contactors
9. The rx60s original disconnect.
10. The rx60s original harting connector to robot.
11. The rx60s original main fuse blocks
12. The rx60s original cooling fans
13. The rx60s original power cable and harting connectors.
14. The rx60s associated DIN rails for preexisting components
15. A 24 volt SMPS
16. A 5 volt SMPS
17. Printed din mounts for said SMPS
18. A 50 amp 240 volt plug
19. An enclosure, I feel at best we would use an equipment case with rack mounts for ease of storage, transport, assembly/ disassembly. Any enclosure would work but i feel an emphasis should be put on spacious environment easy to work on, with individual components easily removed as opposed to having to take the whole thing apart to get to any one component. I have a buddy with an industrial scrapyard which would have an excess of such units at reasonable prices. Prototype mk1 should probably be a sheet of plywood.
20. X1 20 amp circuit breaker for logic circuits.
21. Probably about 100 feet of 14 awg wire.