

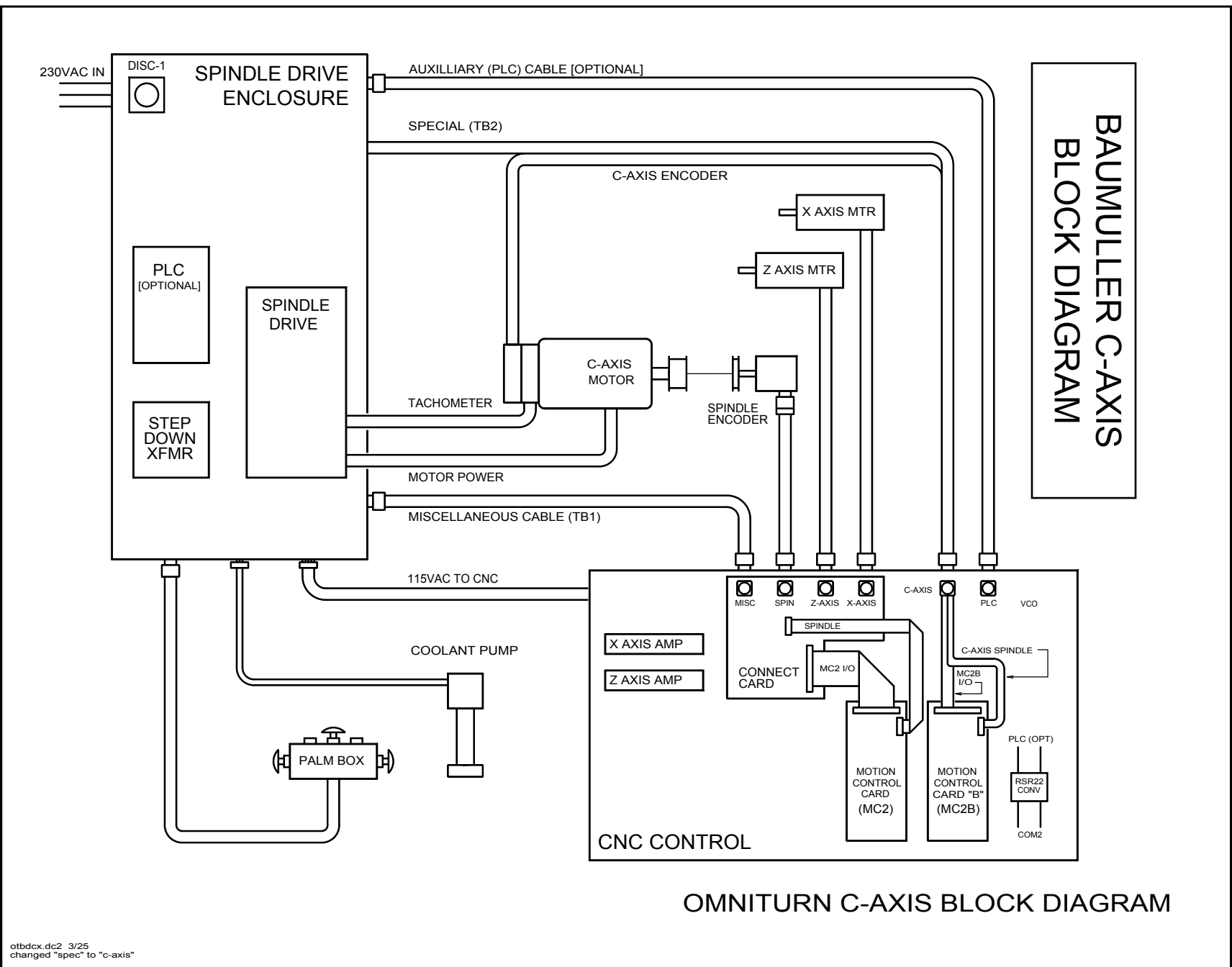
Operating Display			Cause	Remedy
1	FPH	Red	Phase missing in feed *	– Replace the defective fuse – Check the mains connecting cable
2	FTO	Red	Tachometer generator signal error Missing tachometer generator for voltage U1, U2 or U3	– Temporarily replace the defective tachometer generator cable and repair the breakage (soldered or plug-in contact). – Measure the resistance of the tachometer generator on the metal plug: U1 between 8 and 9 U2 between 10 and 11 U3 between 6 and 7 (R = 47 ohms or 23.5 ohms) Completely replace the motor
3	TKK	Red	Over temperature of heatsink	– Power transistors are overloaded – BEDAS I²t monitoring fitted wrongly – Fan has broken down – Ambient temperature is too high – Heat concentration in the cabinet
4	NMX	Red	Maximum speed exceeded	– Specified RPM value is too high Actual RPM value adapted wrongly
5	FBS	Red	Missing BEDAS	– Plug BEDAS into location X10 on the associated device such that pins 1 and 24 on the device are at the top
6	UVS	Red	Supply voltage is too low	– Intermediate circuit voltage drops to $U < 200\text{ V}$ – With error in switching power supply, replace device and retain BEDAS
7	IZK	Red	Overcurrent in current circuit	– Short-circuit of motor lines – Interturn fault in motor – Earth fault in motor
8	FLG	Red	Position encoder error	– Temporarily replace the defective tachometer generator cable repair the breakage (soldered or plug-in contact). – Completely replace the motor
9	SGR	Red	Current limit reached	– Monitoring time for current limit set on BEDAS exceeded – Monitoring time too short – Motor blocked – Motor lines interchanged – Load torque too high – Motor lines not connected Current limiting activated – Tachometer generator or position encoder interchanged – Brake blocked
10	UZK	Red	Overvoltage in intermediate circuit	– Connection voltage too high – Discharging of intermediate circuit via the ballast circuit does not function – Braking power $> P_{\max}$ ballast – Ballast resistor blown – Wire bridge for ballast missing – External ballast resistor not connected
11	TMO	Red	Overtemperature of motor (thermal relay must be connected) *	– Effective power on the shaft is greater than the motor's full-load power – Improve the cooling conditions, i.e. lower the temperature and improve cooling on the flange – Fan on motor has broken down – BEDAS fitted wrongly
12	TBA	Red	Overtemperature of the ballast resistor	– Braking energy is too high – Continuous loading of the ballast resistor is too high – Brief loading $> 2\text{ s} * P_{\max}$ – Intermediate circuit voltage $> 375\text{ V}$ due to mains overvoltage
13	BB	Green	Ready for use	– Not an error
14	RS	Yellow	Controller disable	– Not an error

* **BUM 60 only**

NOTE

If no error message is pending but ready for use, BB, is not lit up, the basic unit is not ready for use.

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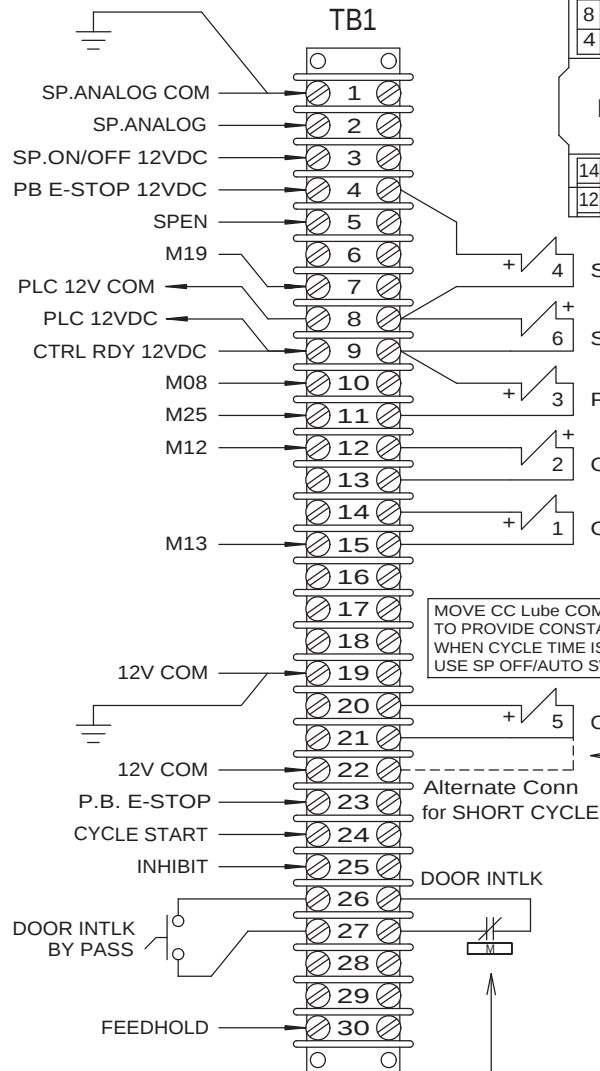


OMNITURN C-AXIS BLOCK DIAGRAM

otbdcx.dc2 3/25
changed "spec" to "c-axis"

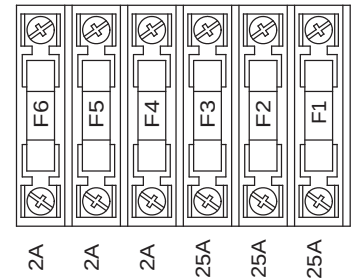
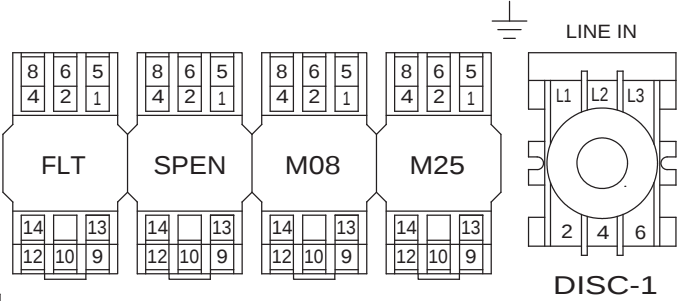
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BAUMULLER C-AXIS SPINDLE PANEL

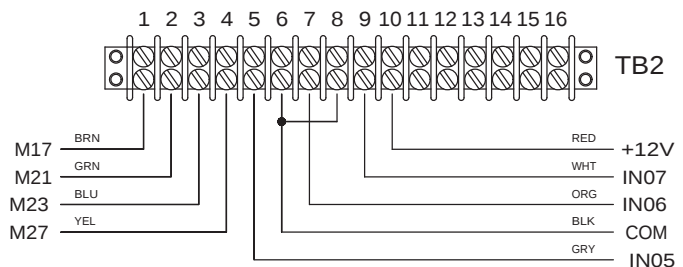
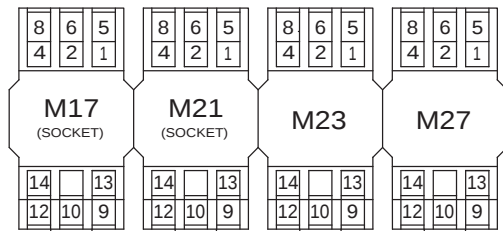


MAGNETIC DOOR INTERLOCK
(CLOSED w/DOOR CLOSED)
KEY SWITCH ON SPINDLE CAB DOOR

Opening the door interlock results in same action as Palm Box E-Stop: if door is open before Cycle Start, program will not start; if door is opened while program is running, all motion will stop; if door is opened during threading cycle, all motion will stop, but CNC Control must be shut off, then on to re-boot.



F1,F2,F3 = INVERTER
F4,F5,F6 = COOLANT PUMP



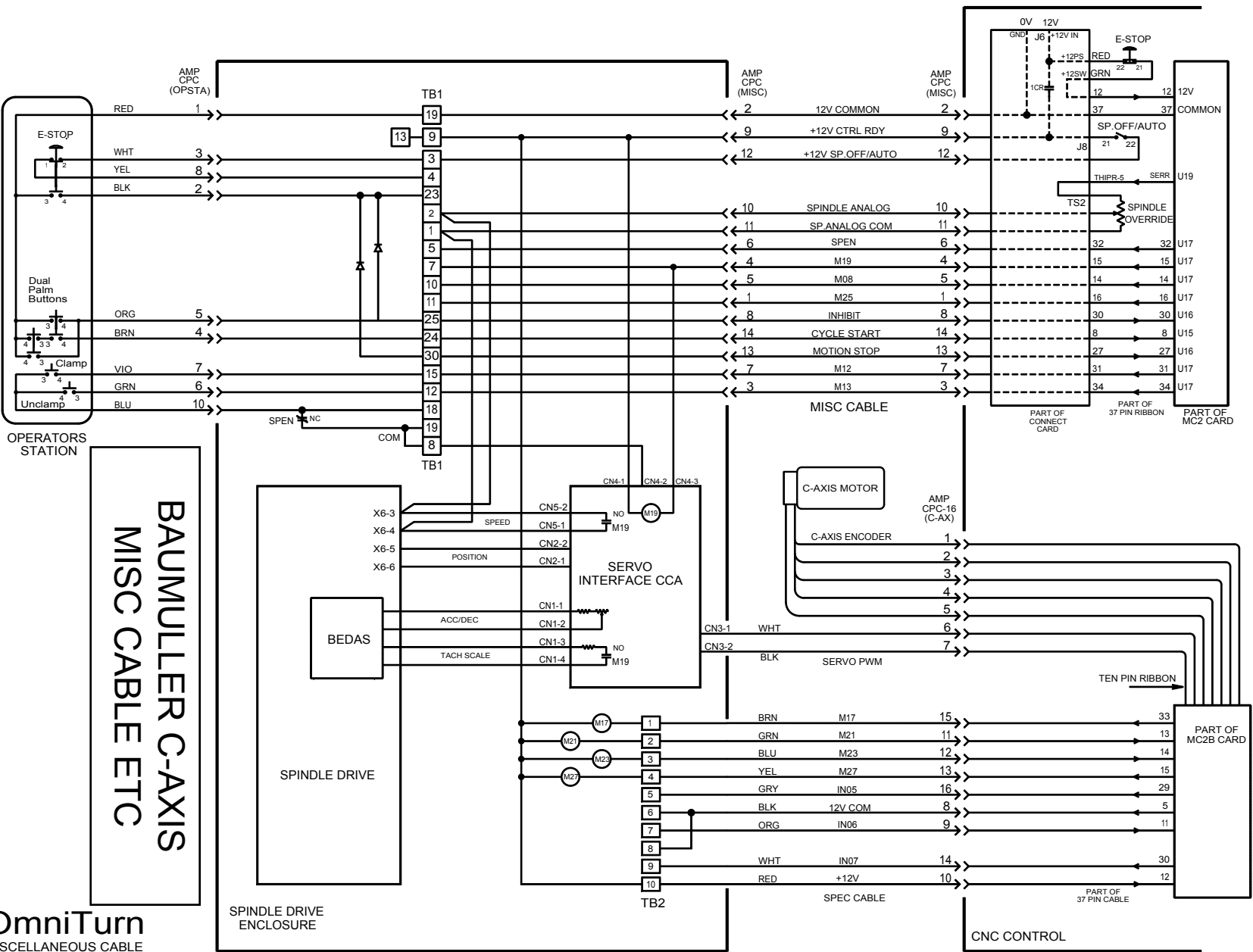
SERVO SPINDLE DRIVE PANEL
(BAUMULLER)

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DOOR INTERLOCK

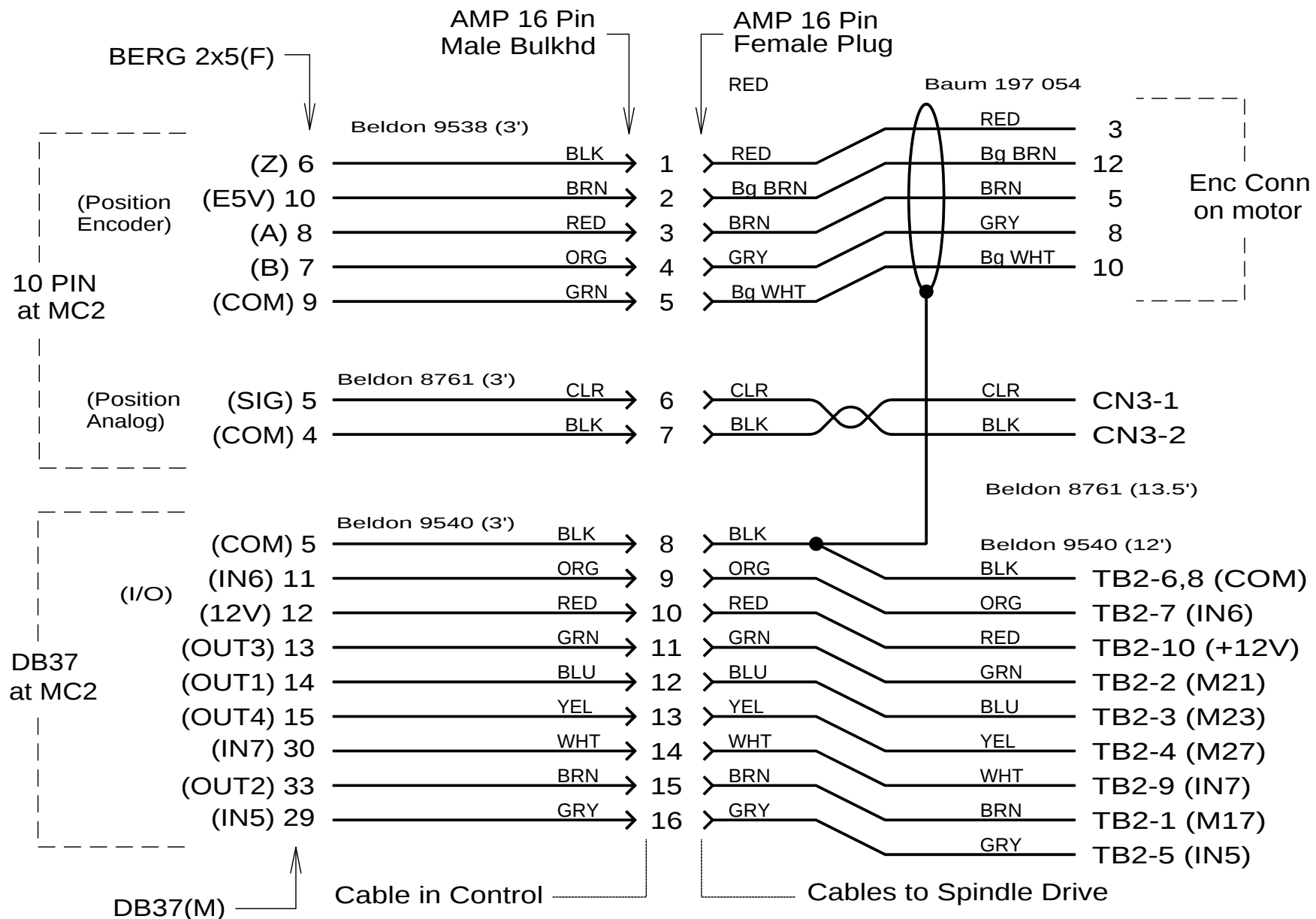
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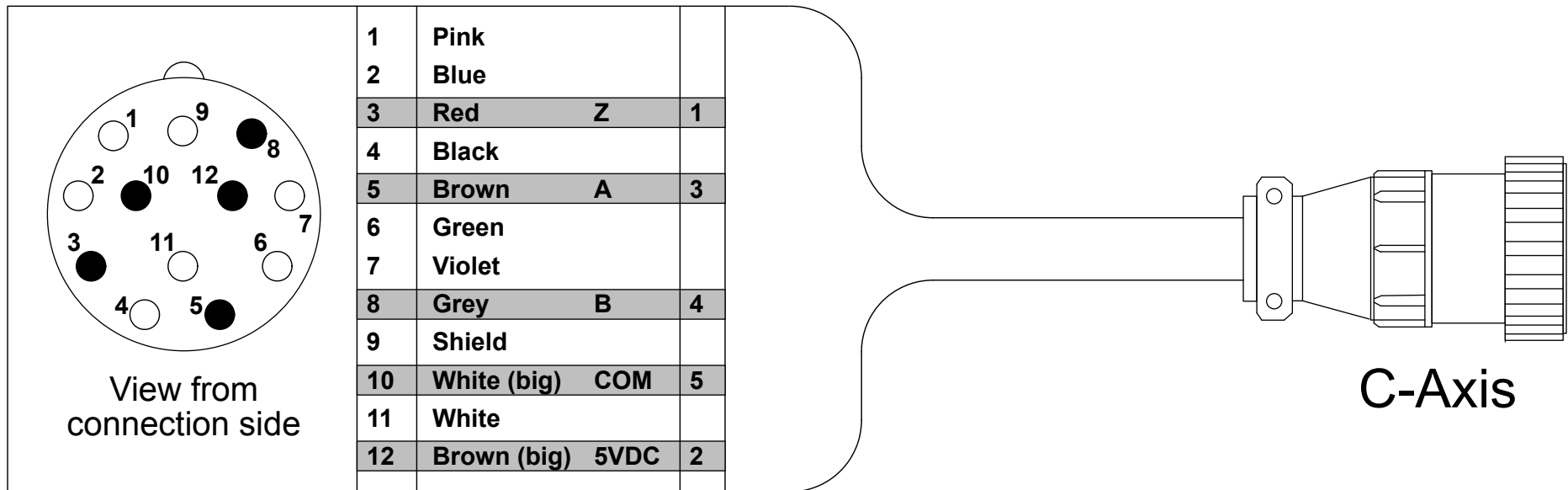


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MISCELLANEOUS CABLE
AND OPERATORS STATION
C-AXIS baumuller

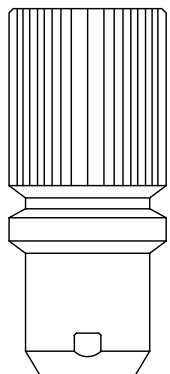
misc_cb3.dc2 1/2024



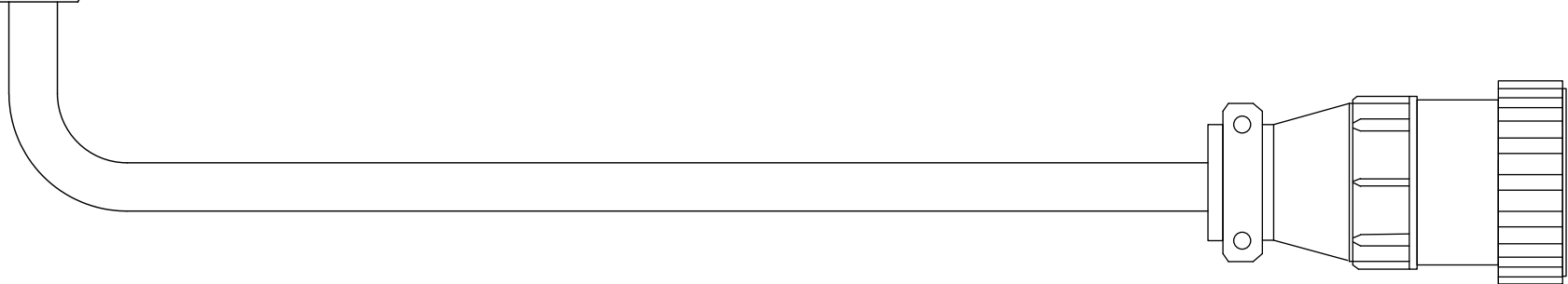
BAUMULLER CABLES



Pin #'s of 16-pin "C-Axis"
Connector on CNC



Baumuller Encoder Cable

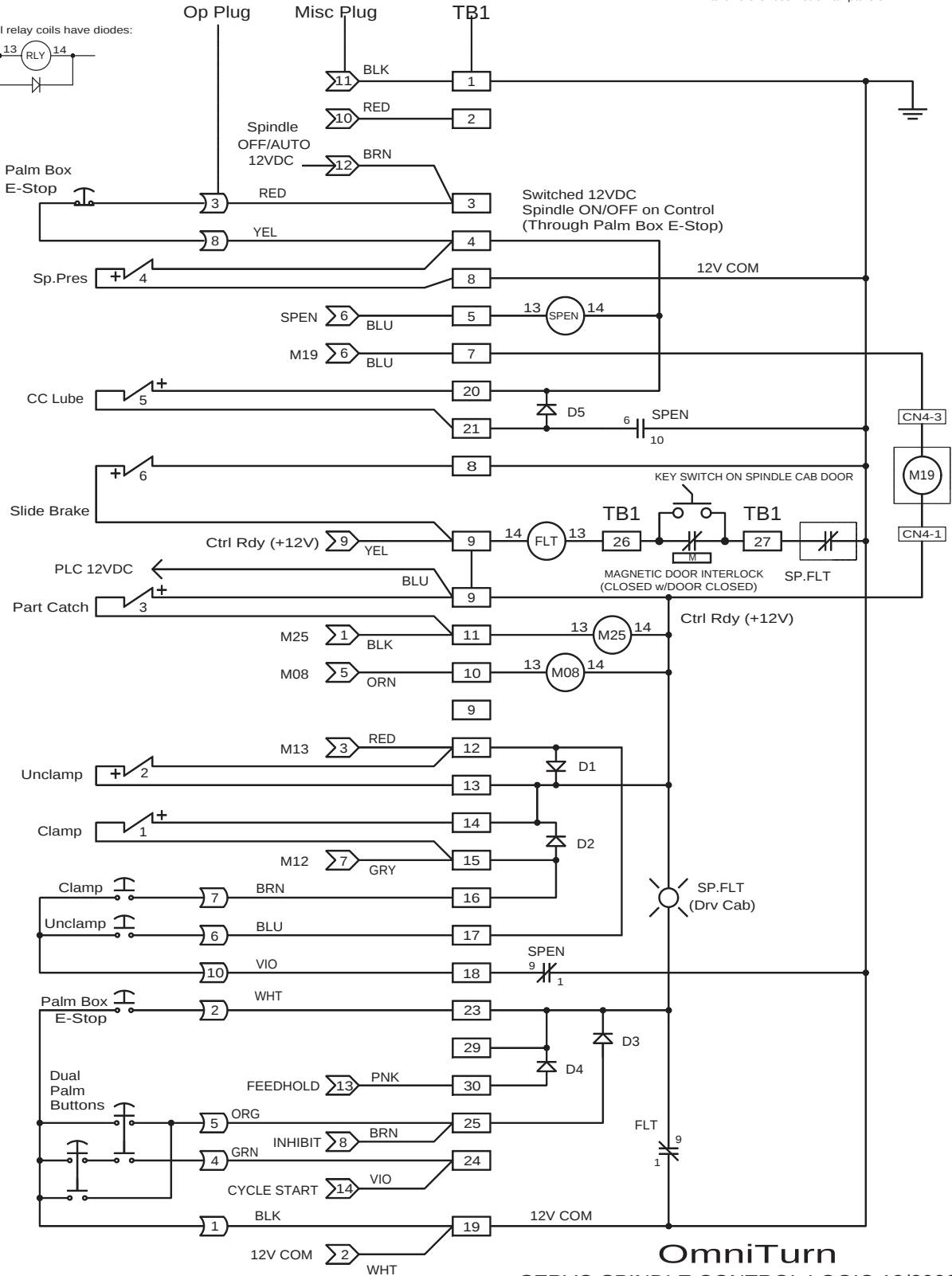
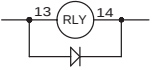


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BAUMULLER C-AXIS CONTROL LOGIC

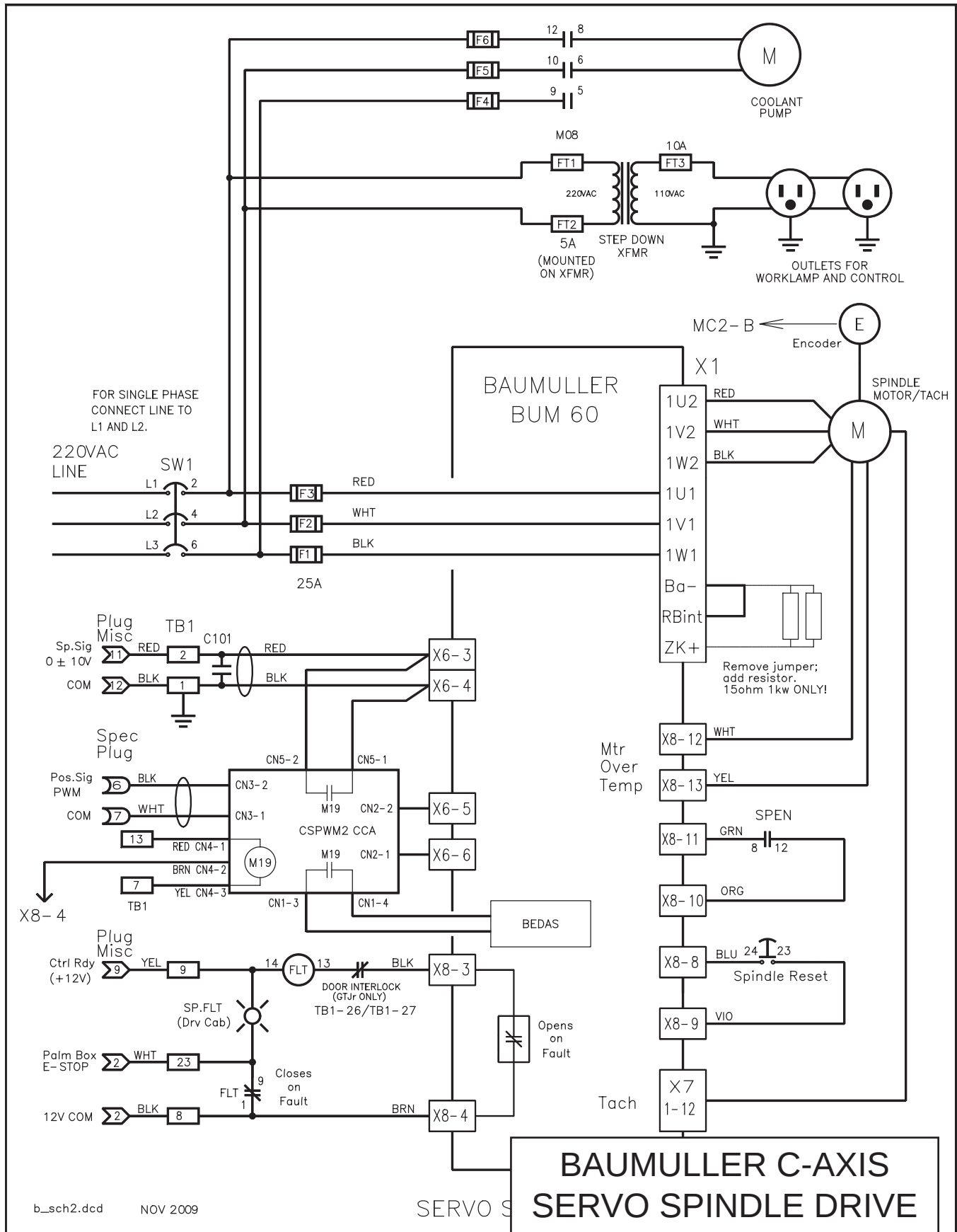
NOTE: This drawing includes optional components and references not on all panels.

NOTE: All relay coils have diodes:



b_sch7a.dcd

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