

**Wiring GA500 Inverter in place of any previous inverter:**

The numbers & letters in the columns below represent terminal designations for the various inverter drives we have used from 1990 through 2020 To install your new GA00 drive, remove each wire from your old drive, label it with the terminal designation, and connect it to the corresponding terminal on the GA500 drive. If you are replacing GA500 on spindle drive that uses printed circuit card instead of TB1, the wiring is slightly different than the picture.

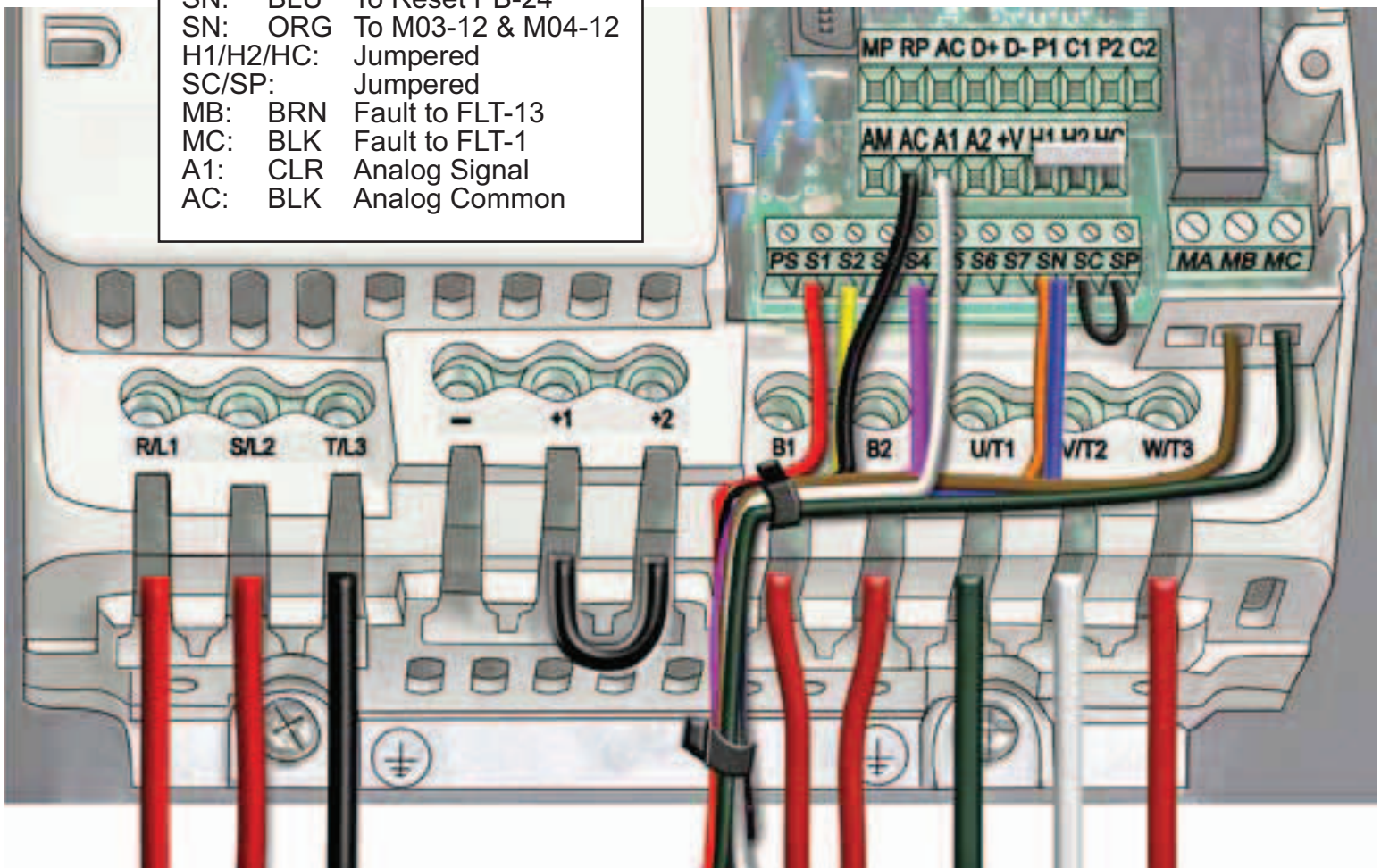
Mitsbshi Terminal	S300 Terminal	PC3 Terminal	GPD315 Terminal	V1000 Terminal	<b>GA500</b> Terminal
R	L1	L1	L1	L1	L1
S	L2	L2	L2	L2	L2
T	L3	L2	L3	L3	L3
U	T1	T1	T1	T1	T1
V	T2	T2	T2	T2	T2
W	T3	T3	T3	T3	T3
B	2	FB	MB	MB	MB
C	3	FC	MC	MC	MC
STF	5	1	S1	S1	S1
STR	6	2	S2	S2	S2
SD	4	6	SC	SC	<b>SN</b>
SD	10	6	SC	SC	<b>SN</b>
RES	9	3	S4	S4	S4
5	13	11	FC	AC	AC
2	14	8	FR	A1	A1
P	??	B1*	B1	B1	B1
PB	??	B2*	B2	B2	B2

\*PC3: 14ga wire from these terminals to the external braking resistor On some older installations, wires were soldered directly to the internal braking resistor on the Justspeed S300. Sometimes these went to a two- station terminal block, sometimes they went directly to a braking resistor in a perforated box outside the cabinet. If your existing resistor looks ok, just snip the wires and insure that the resistor is connected to B1& B2 on new drive, either directly, or via the two-station terminal block.

# Yaskawa GA500 5HP Spindle Drive Wiring

## TB1 WIRING

S1:	RED	To M03-8
S2:	YEL	To M04-8
S4:	VIO	To Reset PB-23
SN:	BLU	To Reset PB-24
SN:	ORG	To M03-12 & M04-12
H1/H2/HC:	Jumpered	
SC/SP:	Jumpered	
MB:	BRN	Fault to FLT-13
MC:	BLK	Fault to FLT-1
A1:	CLR	Analog Signal
AC:	BLK	Analog Common



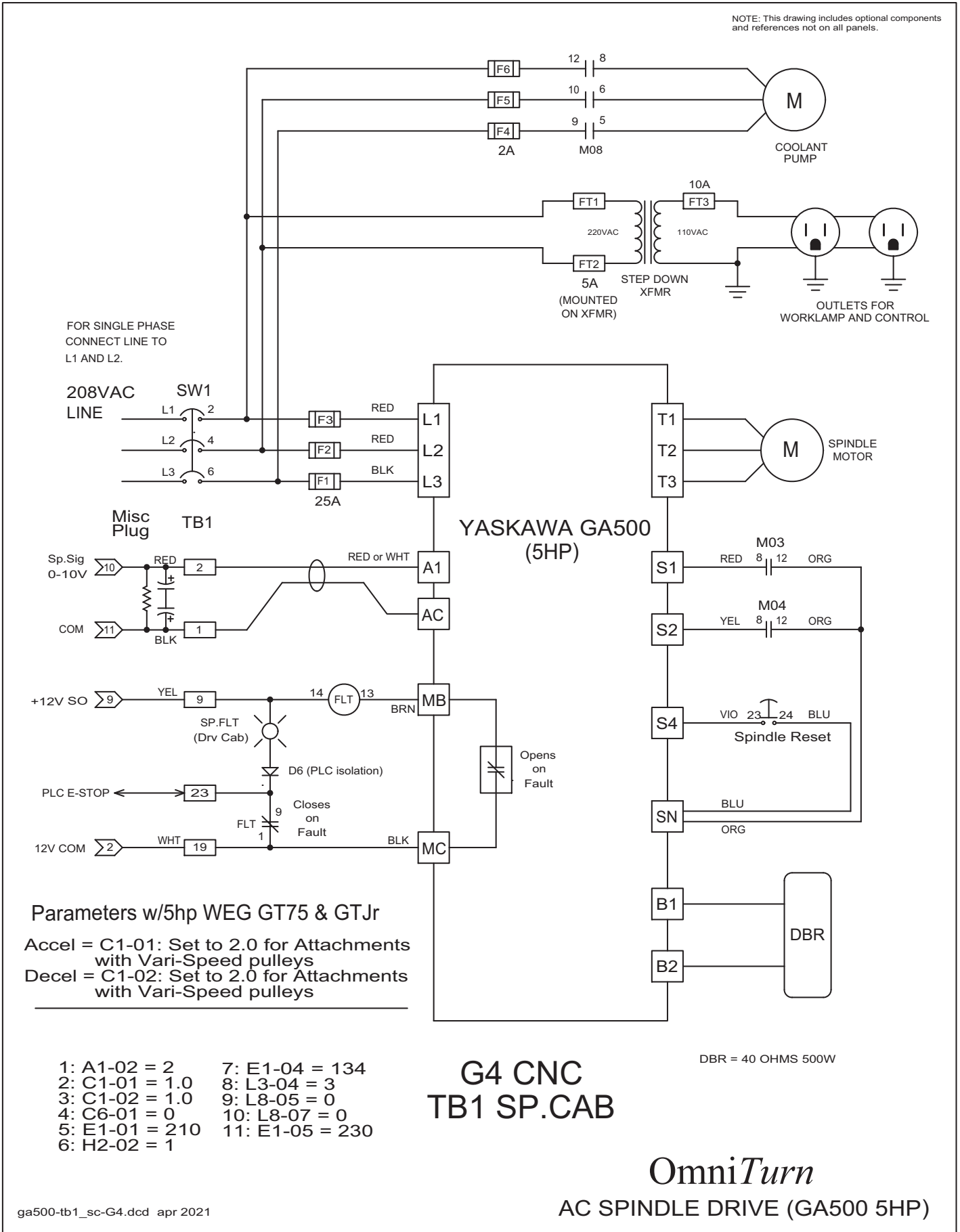
Line In  
(L1 L2 L3)



Resistor  
(B1 & B2)

Motor  
(T1 T2 T3)

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



ga500-tb1\_sc-G4.dcd apr 2021