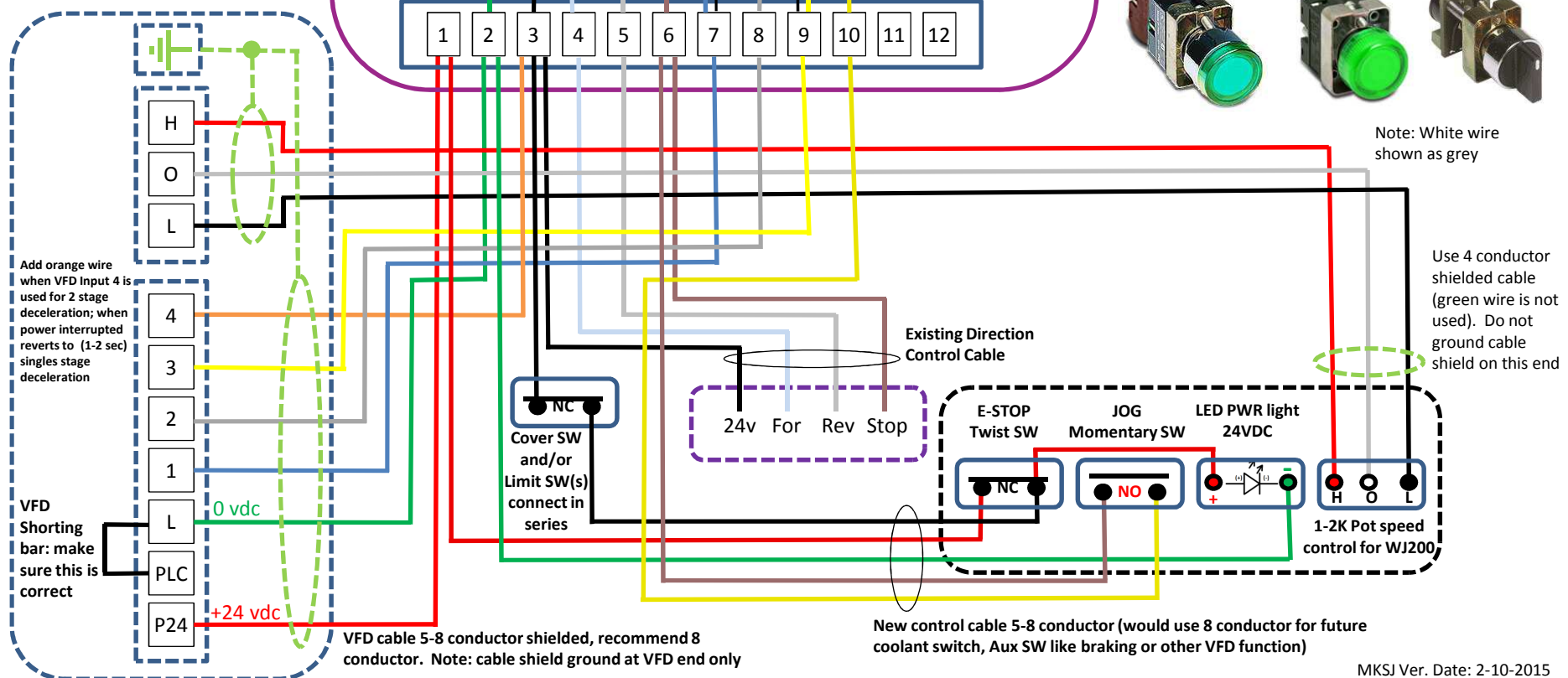


# PM1340GT VFD Control Basic Single Relay Wiring Diagram for Hitachi WJ200

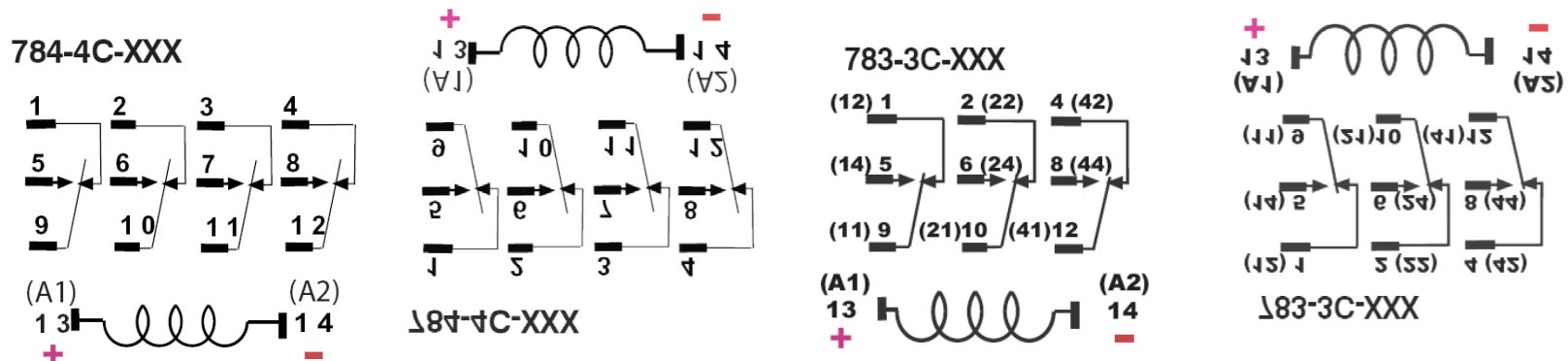
Note: VFD P24 Max. current is 100mA, the relay and LED PWR light is ~90mA. Incandescent bulbs draw too much power. Relay: 784-4C-24D (4 pole, 24 VDC) Relay Socket: 784-4C-SKT-1 PWR light LED 24 VDC or use a lighted JOG Switch GCX1202-24L Green pushbutton, 22mm metal, momentary SW with guard Or LED pilot light indicator: GCX1232-24L I use a 5K $\Omega$  Speed pot: ECX2300-5K



Note: White wire shown as grey



Relay socket connections; Relay base connections are different (see terminals corresponding numbers above)



### **AUTOMATION DIRECT**

#### **E-Stop control panel #1**

**GCX1226-24L** Pushbutton, 22mm metal, latch with twist-to-release, LED illuminated, red, 24 VAC/DC, 40mm mushroom operator, 1 N.C. contact block. Requires additional N.O. contact for LED light SW. **\$20.50**

#### **Machine power reset/control power**

**GCX1202-24L** Pushbutton, 22mm metal, momentary, LED illuminated, green, 24 VAC/DC, flush operator with colored plastic ring, 1 N.O. contact block. F/R requires additional NC switch blocks. **\$19.50**

#### **Jog Button, momentary unlit guarded**

**GCX1102** Pushbutton, 22mm metal, momentary, green flush operator, 1 N.O. contact block **\$6.50.**

#### **Speed potentiometer #1**

**ECX2300-5K** 22mm potentiometer with 5 Kohm resistance, black handle. Legend plate **ECX2640** sold separately **\$36.50.** I have plenty of spare small 5K pots if you want instead.

**ECX2640** 22mm legend plate for potentiometer with 0% to 100% marking **\$3.50**

#### **Additional Switch blocks if needed.**

**ECX1040-5 CONTACT BLOCK** 22mm 5/PK N.O. GREEN FOR GCX SERIES ONLY **\$15**

**ECX1030-5 CONTACT BLOCK** 22mm 5/PK N.C. RED FOR GCX SERIES ONLY **\$15**

#### **Relays and socket mount #1:**

**783-4C-24D** Ice cube control relay, 24 VDC coil voltage, 3PDT, 15A contact rating, with LED indicator and push-to-test button. Purchase **783-3C-SKT** mounting socket separately. **\$8.25**

**783-4C-SKT RELAY SOCKET** FOR 783 SERIES **\$4.50**

**Misc: Control cable 22G 4 wire (multi wire flexible, depends on the number of controls; 3 wire for pot, 4-7 wire between control box and VFD for commands) shielded cable to connect the speed pot (use 3 wires) to the VFD, and control box and VFD. Control Cable Minimum of 6 wire 22G cable to control pendent. 14G 4 conductor (3 wire +ground) between VFD and motor, preferably shielded, but regular 4 conductor will work. Should be 600V rating.**

**SEOOW or SOOW** Flexible portable cord, Type SEOOW, 3 or 4 conductors, 12AWG (2HP 240 VAC) up to 25', 600V maximum, -50 to 105 degrees C, fully annealed stranded copper conductors, rated for outdoor use, oil-resistant and water-immersible, 20 foot coil **\$22.50**

**14G 3 conductor (2 wire + ground from VFD to main power up to 3HP 3 phase motor).**

**You will need assorted connectors and spades**

**Will send you the 1/4" electrical phenolic resin board with DIN rail and MW DR-15-24 24VDC (15W) power supply.**

**Breaker/Power Disconnect: SQUARE D No. MG17447 C60N 30A 2 Pole supplementary - DIN rail, Breaker C trip curve**