



# PLASTEC Ventilation

## Variable Frequency Drives S100/C200



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## MODEL NUMBERS

PLASTECH P/N	Model	HP	Amps	Input voltage	Input phase	Output Voltage	Output phase	Weight (Lbs)
D15011	S100	1.5	6	100	1	200	3	2.01
D30020	S100	3	10.6	200	1&3	200	3	2.04
D50023	C200	5		200	3	200	3	
D100023	C200	10		200	3	200	3	
D30043	S100	3	7.2	400	3	400	3	2.04
D50043	S100	5	8.8	400	3	400	3	2.04
D75043	C200	7.5		400	3	400	3	
D100043	C200	10		400	3	400	3	
D30053	C200	3		575	3	575	3	
D50053	C200	5		575	3	575	3	
D75053	C200	7.5		575	3	575	3	
D100053	C200	10		575	3	575	3	

## SPECIFICATIONS

	S100	C200
<b>ENVIRONMENT</b>		
<b>Ambient Operating Temperature</b>	-20°C to 40°C (-4°F to 104°F) @ 3 kHz switching freq.   Operation to 60°C (140°F) with de-rating	
<b>Storage Temperature</b>	-40°C to 60°C (-40°F to 140°F)	
<b>Cooling Method</b>	Forced convection (cooling fan)	
<b>Humidity</b>	95 % non-condensing at 40°C / 104°F - EN61800-2(3k3)	
<b>Altitude</b>	≤3000m (1000 m to 3000 m derate 1 % over 100 m)	
<b>Vibration</b>	Tested to IEC 60068-2-6	
<b>Enclosure Rating</b>	IP20, NEMA 1	
<b>Electromagnetic compatibility</b>	EN 61000-6-4: Generic emission standard for industrial environments	
<b>Maximum Motor Cable Length</b>	50 m (164ft)	
<b>AC SUPPLY REQUIREMENTS</b>		
<b>Voltage</b>	100 V models: 100 to 120 Vac ±10% 200 V models: 200 to 240 Vac ±10% 400 V models: 380 to 480 Vac ±10% 575 V models: 500 to 575 Vac ±10%	
<b>Maximum supply imbalance</b>	2% negative phase sequence, 3% voltage imbalance between phase	
<b>Input Frequency</b>	45 to 66 Hz	
<b>Output Frequency</b>	0 to 300Hz	
<b>Switching Frequency</b>	4, 6, 8 12 kHz	0.667, 1, 2, 3, 4, 6, 8 12 & 16kHz
<b>APPROVALS &amp; LISTINGS</b>		
CE, UKCA, cUL, C-Tick, EAC, KC		

## DIMENSIONS

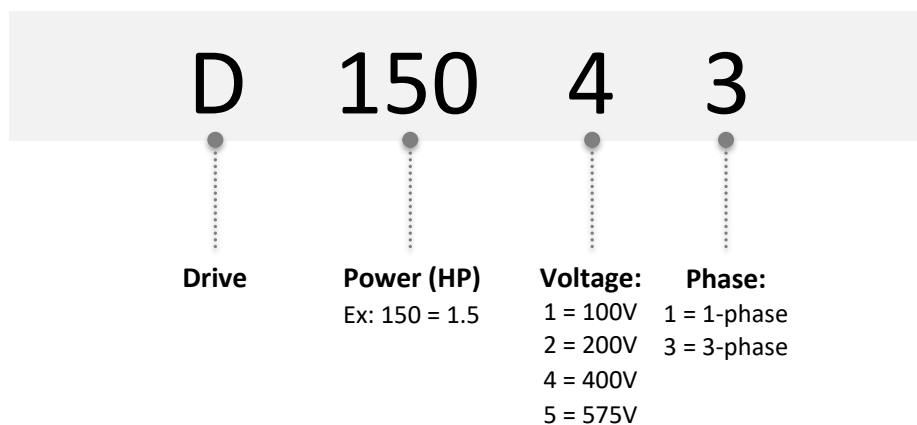
PLASTECH P/N	Height (in)	Width (in)	Depth (in)
D15011	6.14	2.7	5.12
D30020	6.14	2.7	5.12
D50023	10.9	4.5	6.9
D100023	15.4	5.6	7.9
D30043	6.14	2.7	5.12
D50043	6.14	2.7	5.12
D75043	10.9	4.5	6.9
D100043	10.9	4.5	6.9
D30053	15.4	5.6	7.9
D50053	15.4	5.6	7.9
D75053	15.4	8.3	9
D100053			



## HOW TO SELECT A DRIVE

1. What is my supply voltage?
  - a. 120v
  - b. 230v
  - c. 460v
  - d. 575v
2. Is my supply voltage single or three phases?
3. What is my motor FLA/amps? (Select the drive based on the motor amps rather than horsepower)

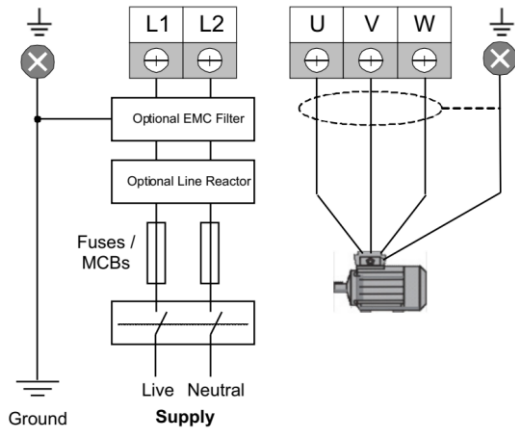
## PRODUCT CODES



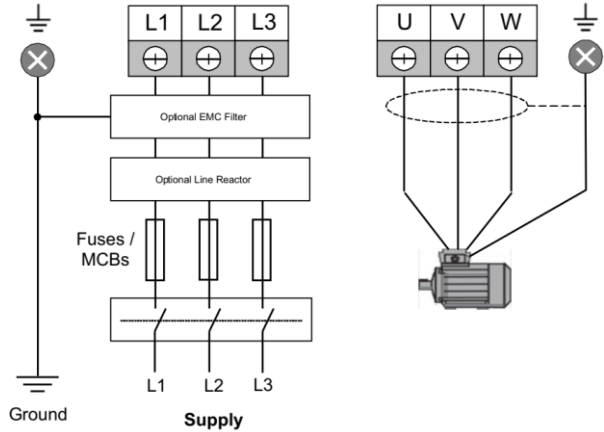
# ELECTRICAL WIRING

## MODEL S100

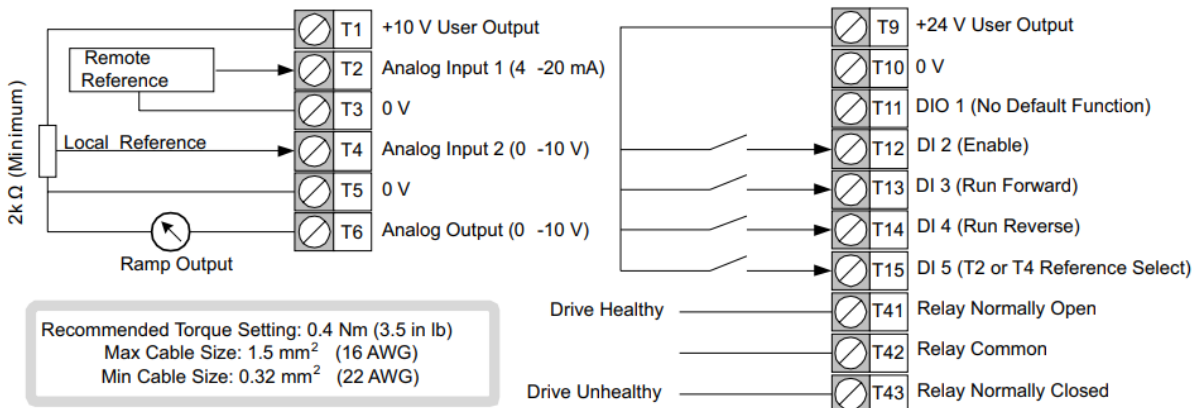
### Single Phase



### Three Phase

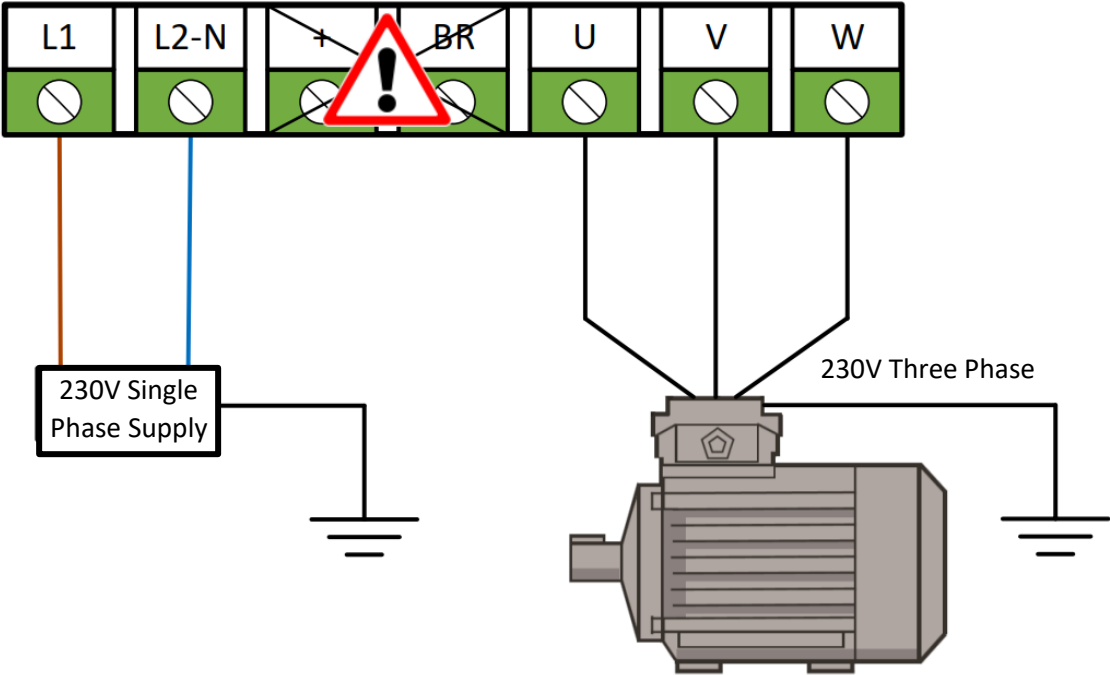


### Control Connections (Default Settings)

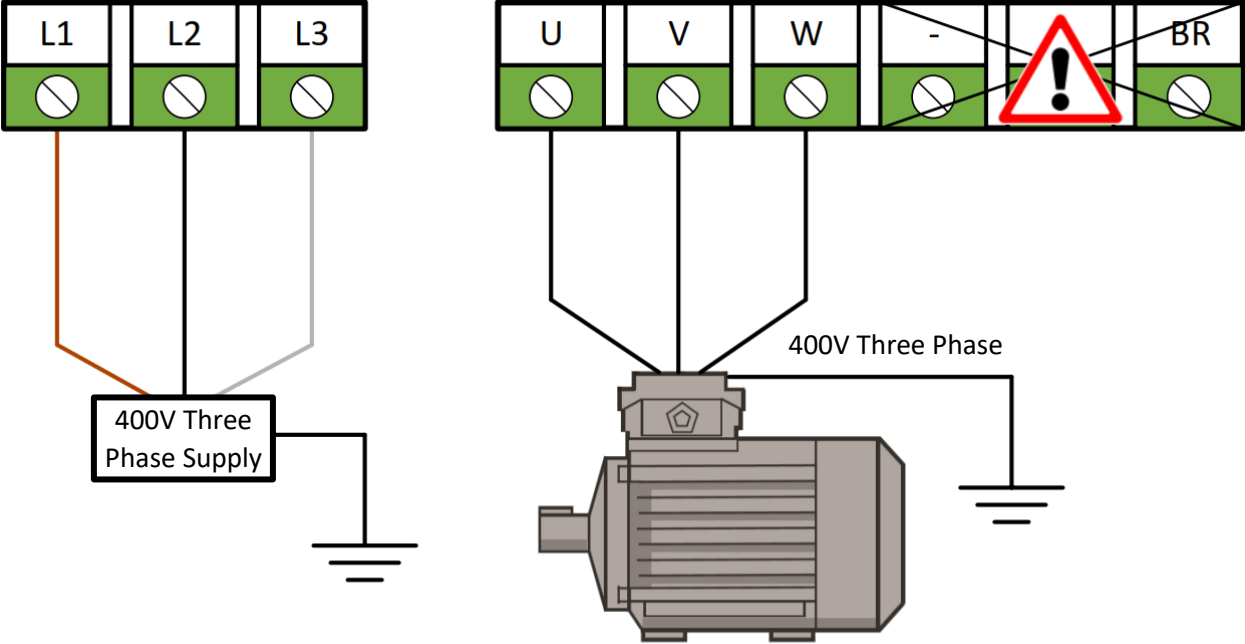


**MODEL C200**

**Single Phase**



**Three Phase**



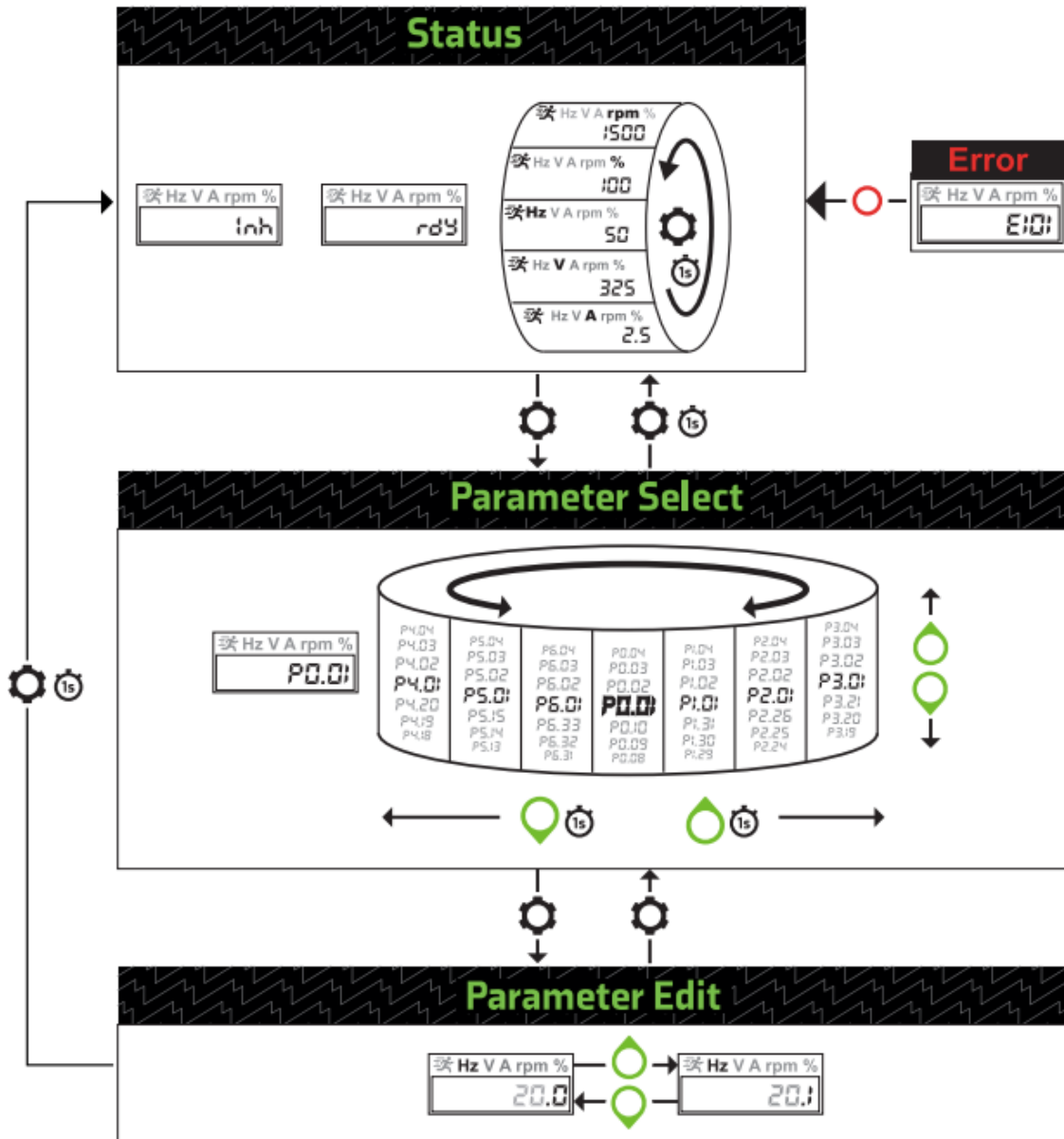
# BASIC PARAMETERS

PARAMETERS	DESCRIPTION	DEFAULT VALUE	UNIT
Pr 01	Minimum Speed	15	Hz
Pr 02	Maximum Speed	60	Hz
Pr 03	Acceleration Rate 1	5	s/max freq
Pr 04	Deceleration Rate 1	10	s/max freq
Pr 05	Drive Configuration	PAD	-
Pr 06	Motor Rated Current	0 to Drive max A	A
Pr 07	Motor Rated Speed	0 to 33000rpm	RPM
Pr 08	Motor Rated Voltage	0 to 765V	V
Pr 09	Motor Rated Power Factor	0 to 1	-
Pr 00	SAVE PARAMETERS	-	-

NOTE: PLASTEC VENTILATION FACTORY PRESET VFDs SOLD WITH A PLASTEC, STORM OR JET BLOWER.

# CHANGE PARAMETERS

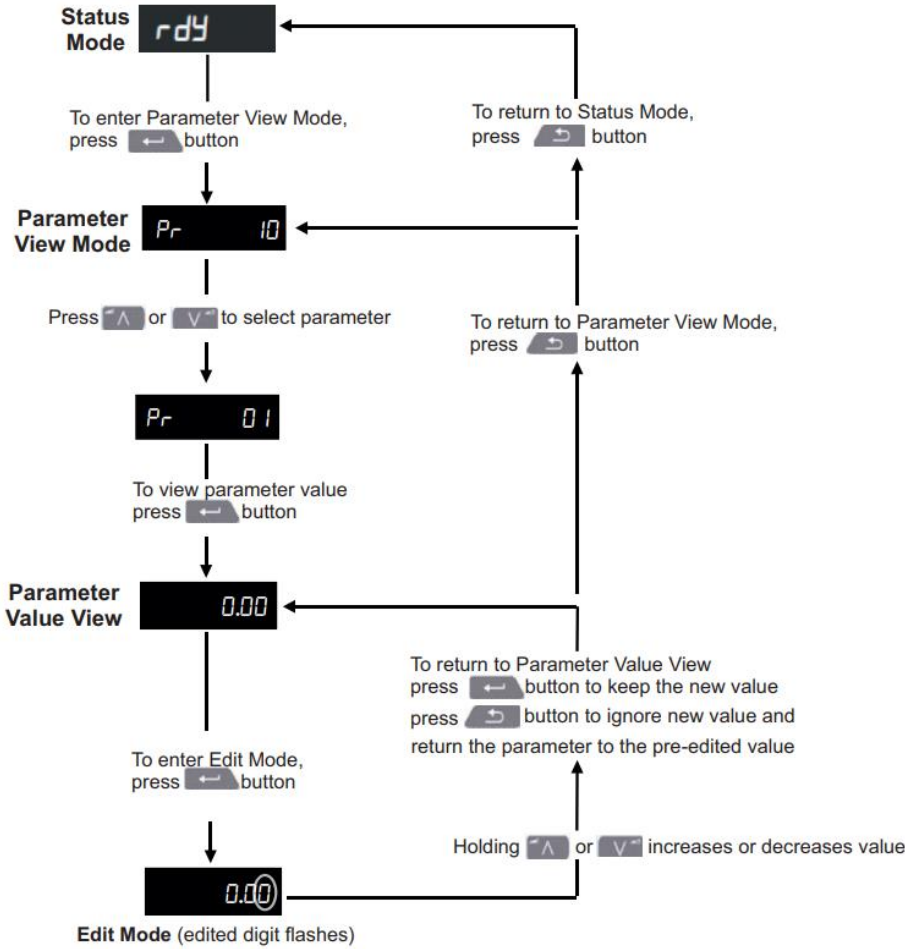
## S100 MODEL



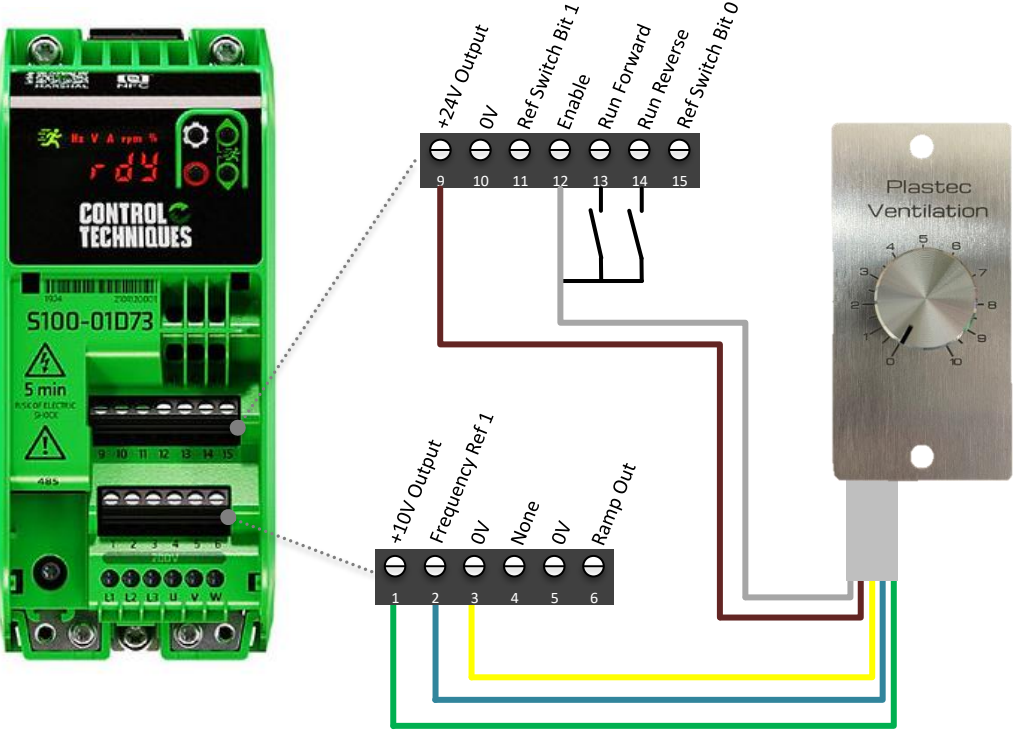
⌚ 1s Indicates the key should be pressed and held to enact the desired movement. This time varies for different operations to allow for the best usability but 1 second is the standard time for most operations.



# C200 MODEL



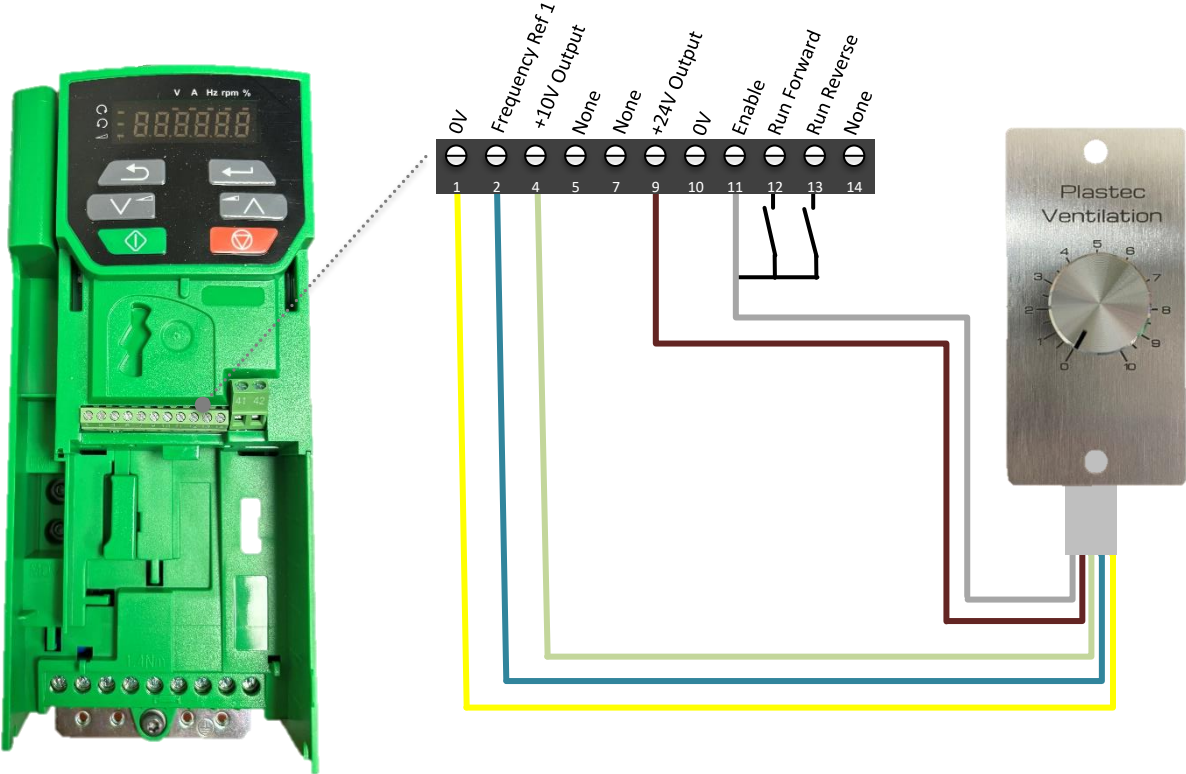
# S100 VFD - CONNECT A 0/10V POTENTIOMETER



To use a potentiometer, make sure these parameters are correctly set up:

- P2.03 = 2
- P6.13 = 1

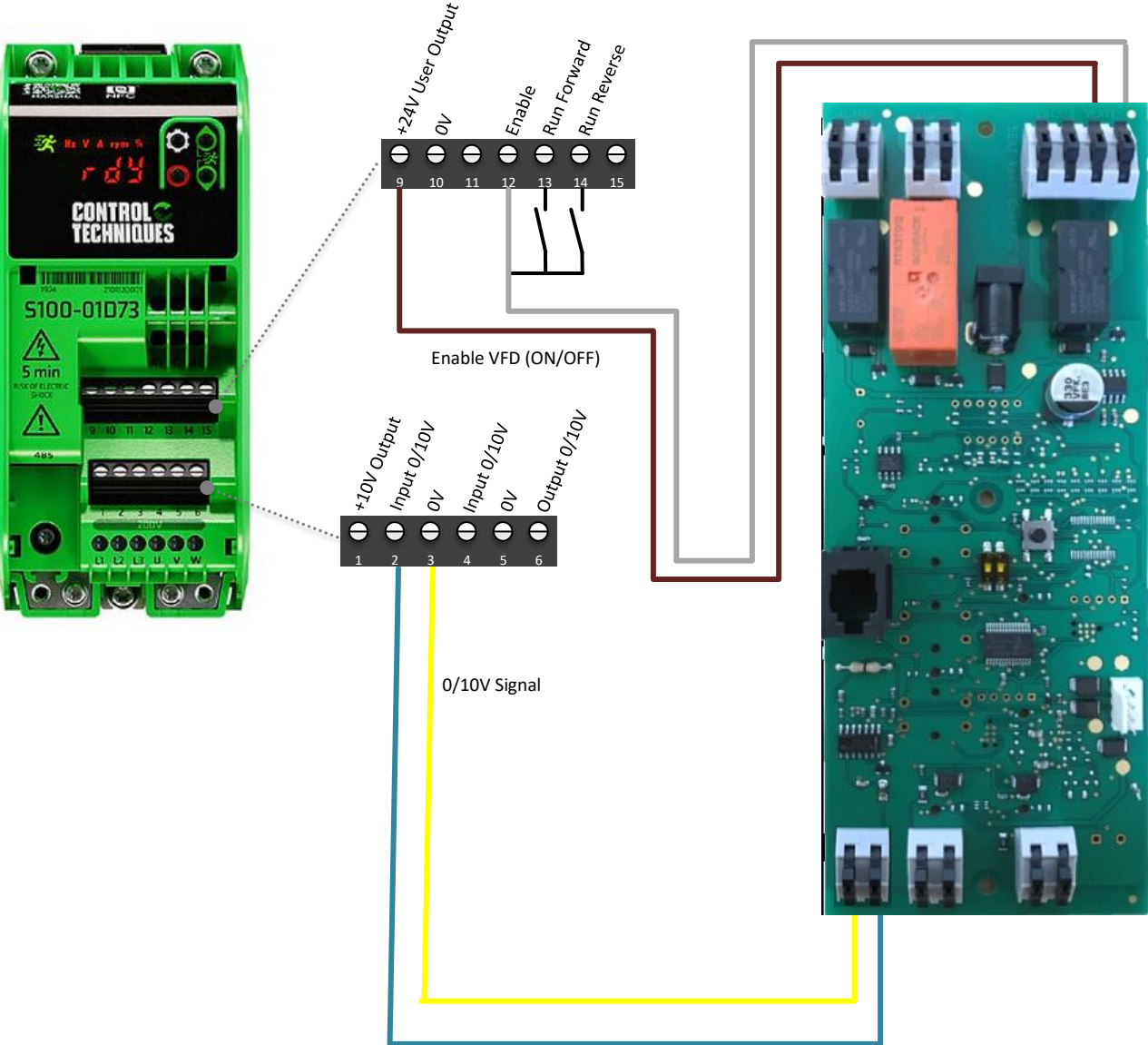
# C200 VFD - CONNECT A 0/10V POTENTIOMETER



To use a potentiometer, make sure these parameters are correctly set up:

- Pr 05 = AV

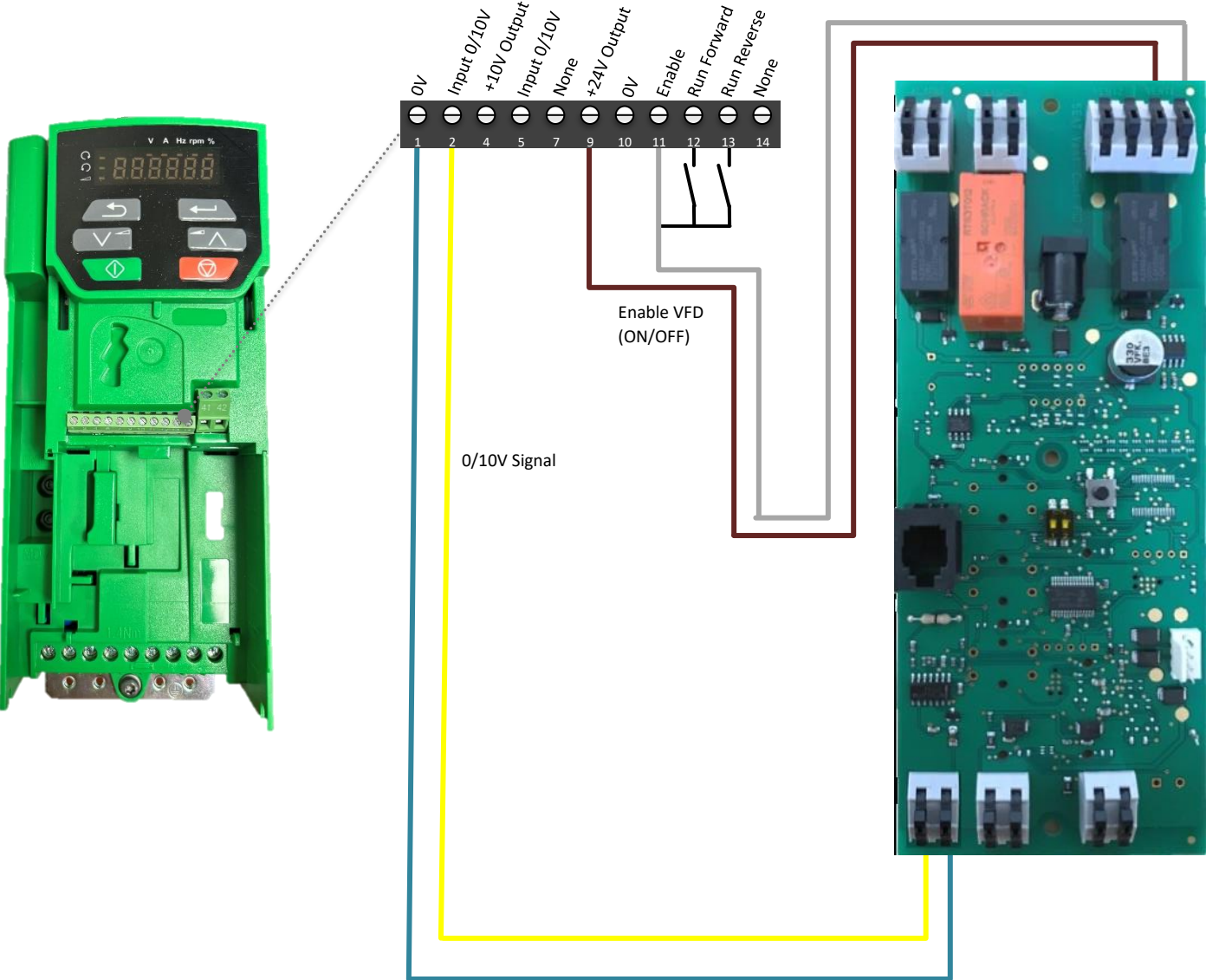
# S100 VFD - CONNECT A 0/10V CONTROLLER (TYPE C)



To use a 0/10v controller, make sure these parameters are correctly set up:

- P2.03 = 2
- P6.13 = 1

# C200 VFD - CONNECT A 0/10V CONTROLLER (TYPE C)

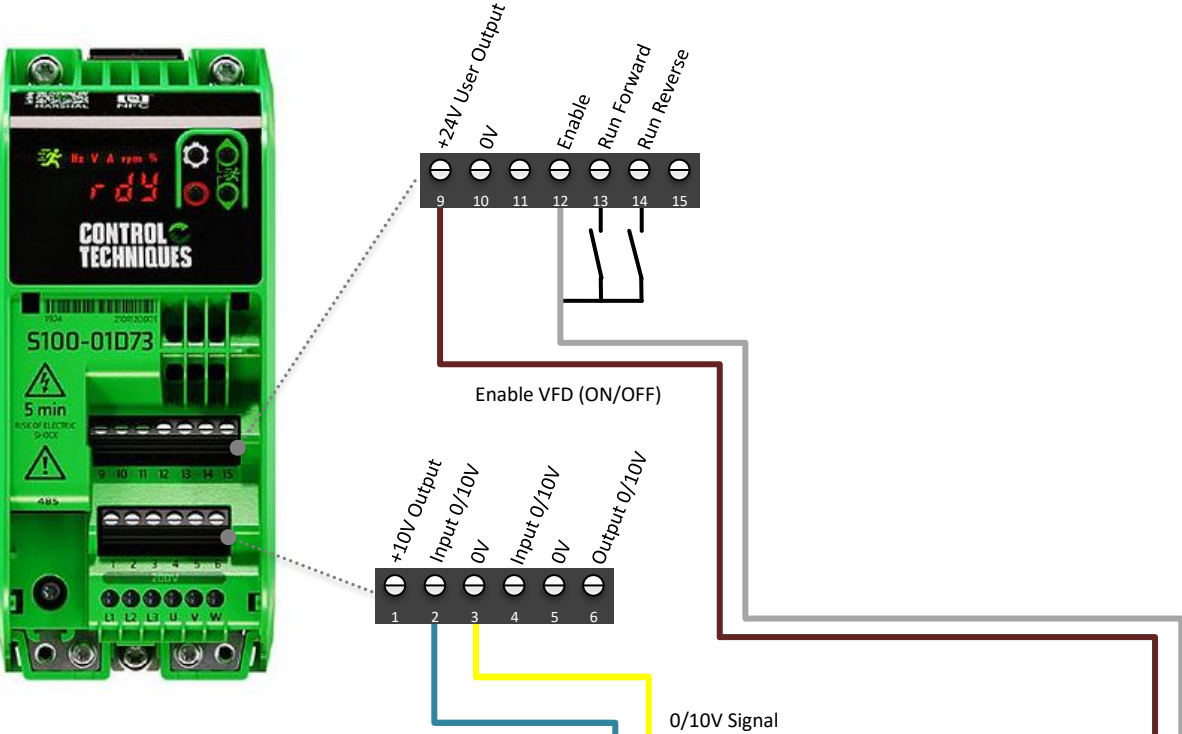


To use a 0/10v controller, make sure these parameters are correctly set up:

- Pr 05 = AV

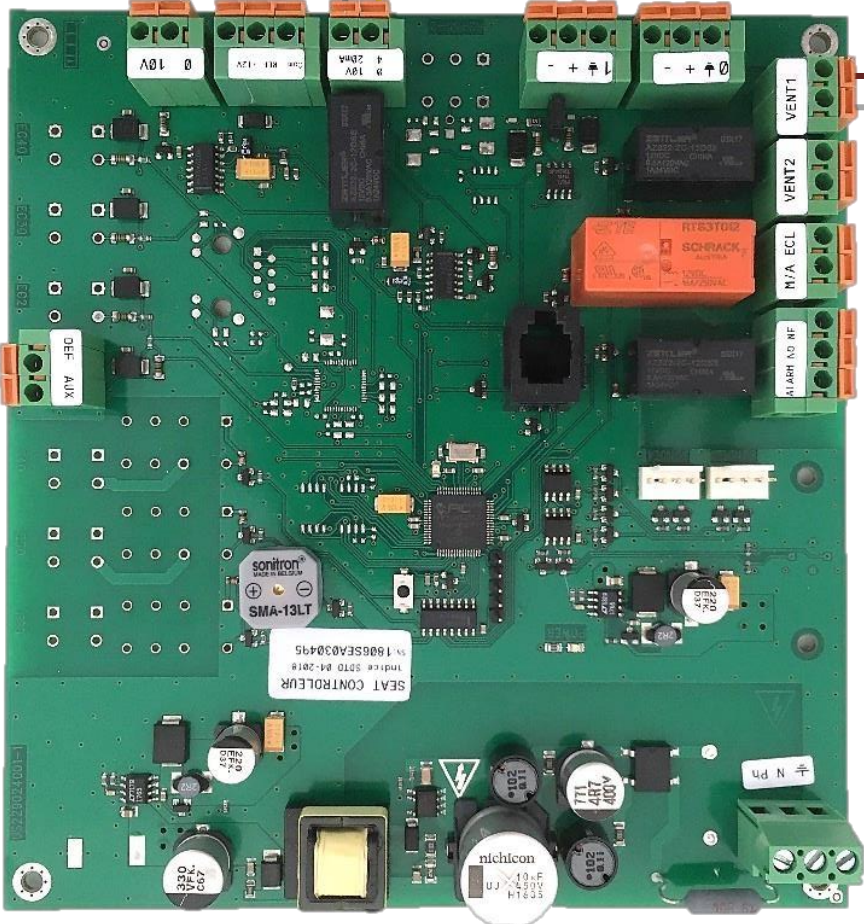


# S100 VFD - CONNECT A 0/10V CONTROLLER (Control E-SEAT)

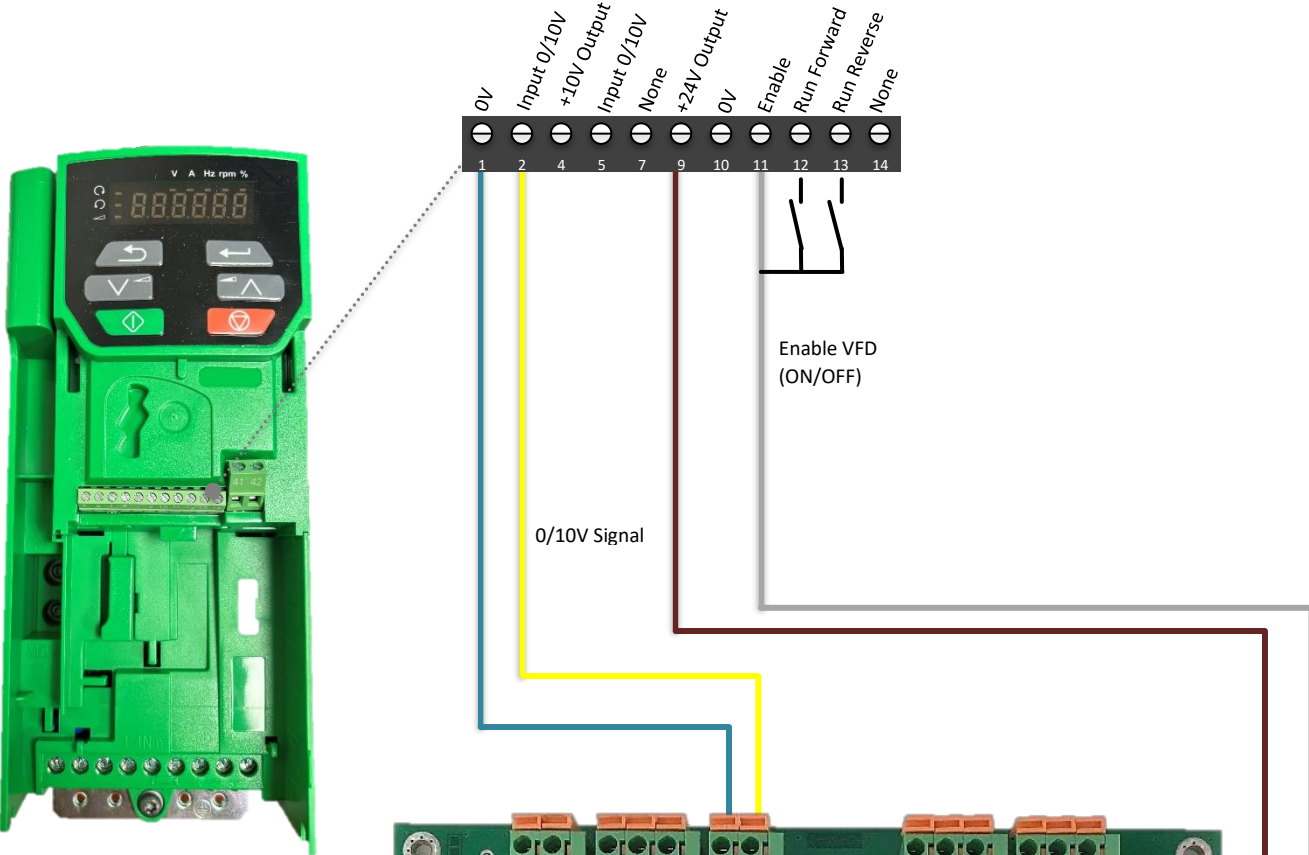


To use a 0/10v controller, make sure these parameters are correctly set up:

- P2.03 = 2
- P6.13 = 1

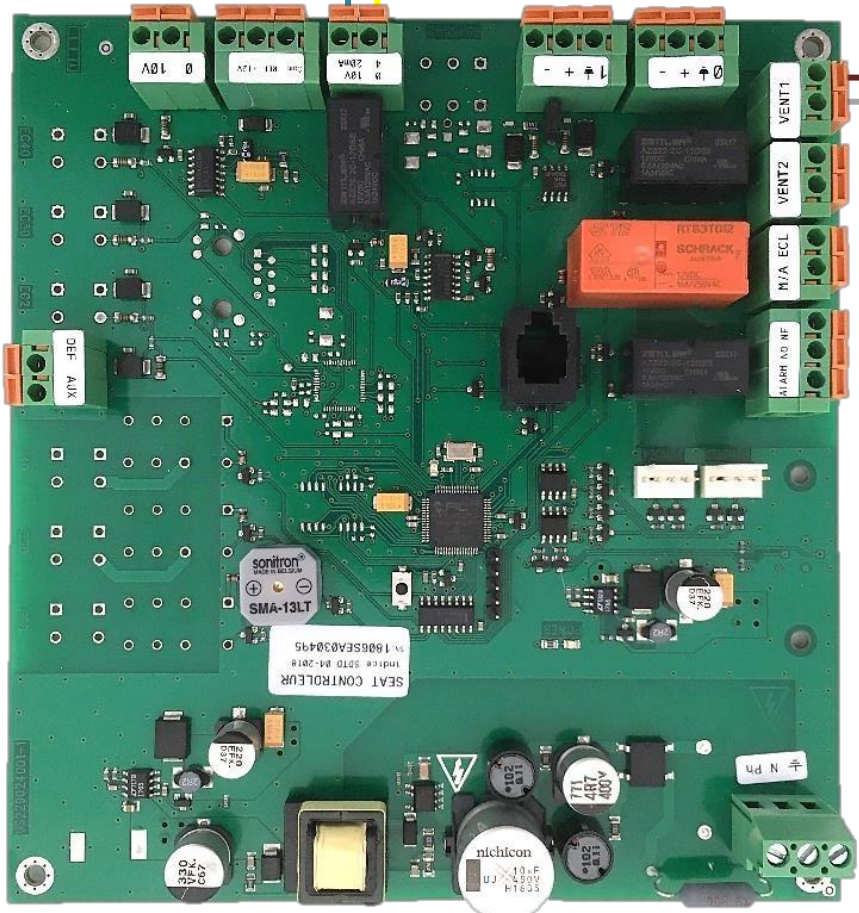


# C200 VFD - CONNECT A 0/10V CONTROLLER (Control E-SEAT)



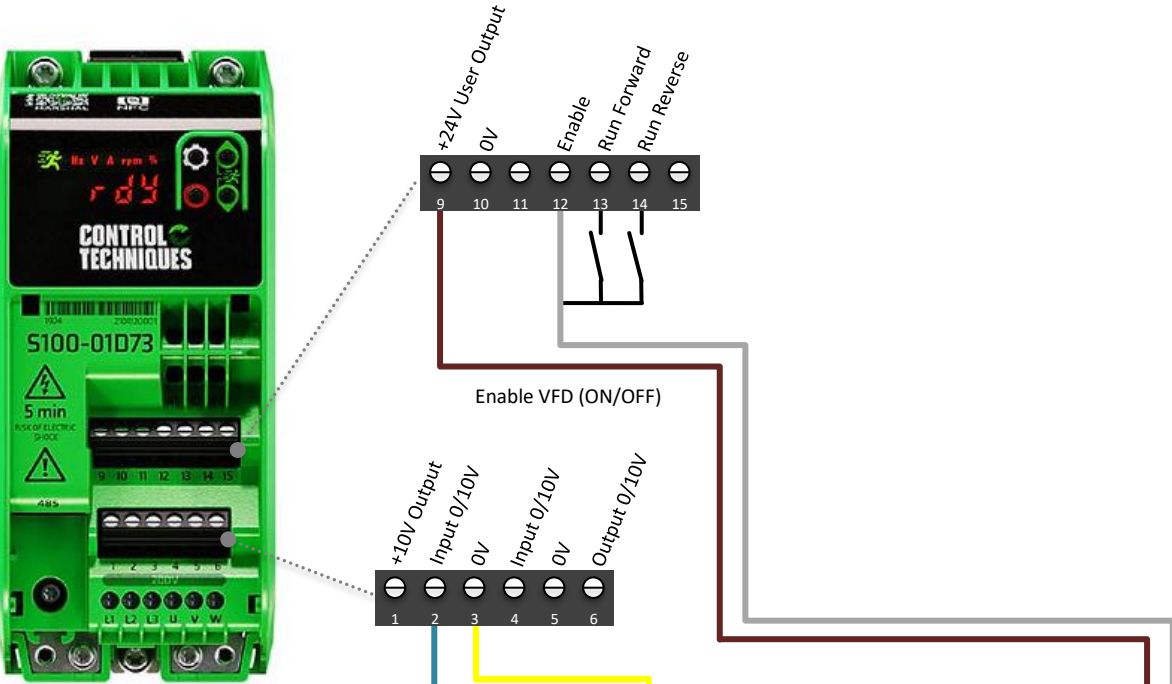
To use a 0/10v controller, make sure these parameters are correctly set up:

- Pr 05 = AV



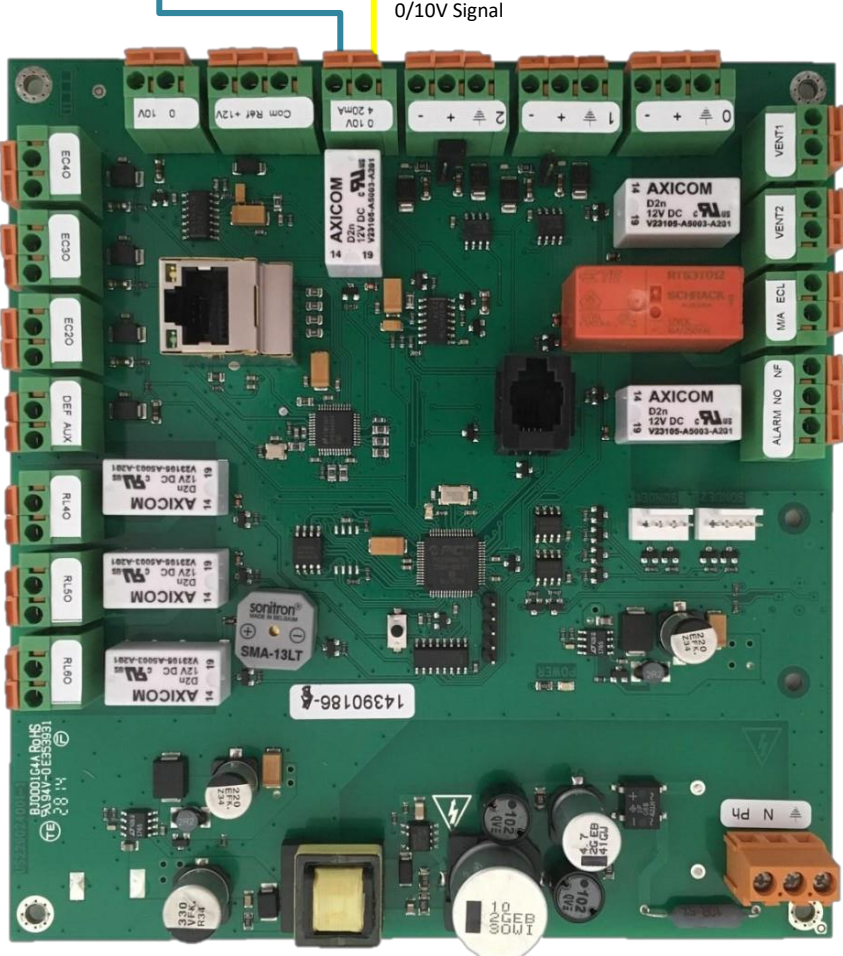


# S100 VFD - CONNECT A 0/10V CONTROLLER (Capture E-SEAT)



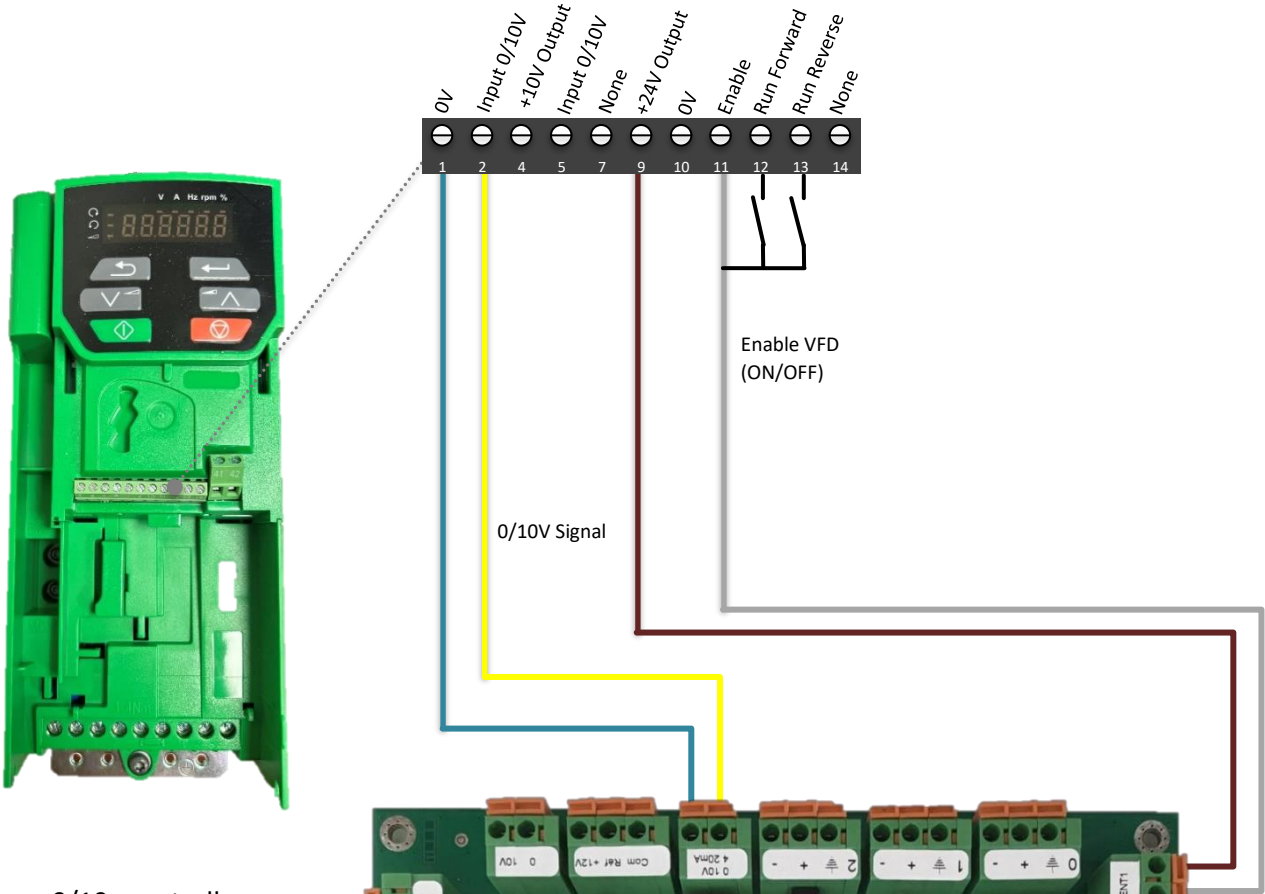
To use a 0/10v controller, make sure these parameters are correctly set up:

- P2.03 = 2
- P6.13 = 1





# C200 VFD - CONNECT A 0/10V CONTROLLER (Capture E-SEAT)



To use a 0/10v controller, make sure these parameters are correctly set up:

- Pr 05 = AV

