

VEVOR®

TOUGH TOOLS, HALF PRICE

Inverter

MODEL:AT1-2200X



NEED HELP? CONTACT US!

Have product questions? Need technical support? Please feel free to contact us:

Technical Support and E-Warranty Certificate
www.vevor.com/support

This is the original instruction, please read all manual instructions carefully before operating. VEVOR reserves a clear interpretation of our user manual. The appearance of the product shall be subject to the product you received. Please forgive us that we won't inform you again if there are any technology or software updates on our product.

IMPORTANT SAFEGUARDS



Read all safety warnings, instructions, illustrations and specifications provided with this inverter. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

WARNING:

This equipment is a high voltage device, please do not attempt to disassemble this equipment at any time to avoid danger. After a device failure, if the external switch fails to restart the device, please contact your reseller for handling.

WARNING: ELECTRICAL SHOCK AND FIRE HAZARD!

1. Failure to comply with this instruction could result in an electrical failure, fire and electrocution.
2. DO NOT DISASSEMBLE .
3. Do not submerge inverter .
4. Do not connect two or more transformers in parallel
5. Plug the power supply unit directly into a GFCI wet location outlet .
6. Do not use an extension cord
7. Installation of this inverter and related wiring must be done by a qualified electrician in compliance with all applicable electrical codes.

WARNING:

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

SAVE THESE INSTRUCTIONS

FCC Information

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment!

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1) This product may cause harmful interference.
- 2) This product must accept any interference received, including interference that may cause undesired operation.

WARNING: Changes or modifications to this product not expressly approved by the party responsible for compliance could void the user's authority to operate the product.

Note: This product has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This product generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the product off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
- Increase the distance between the product and receiver.
- Connect the product to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for assistance.

Correct Disposal

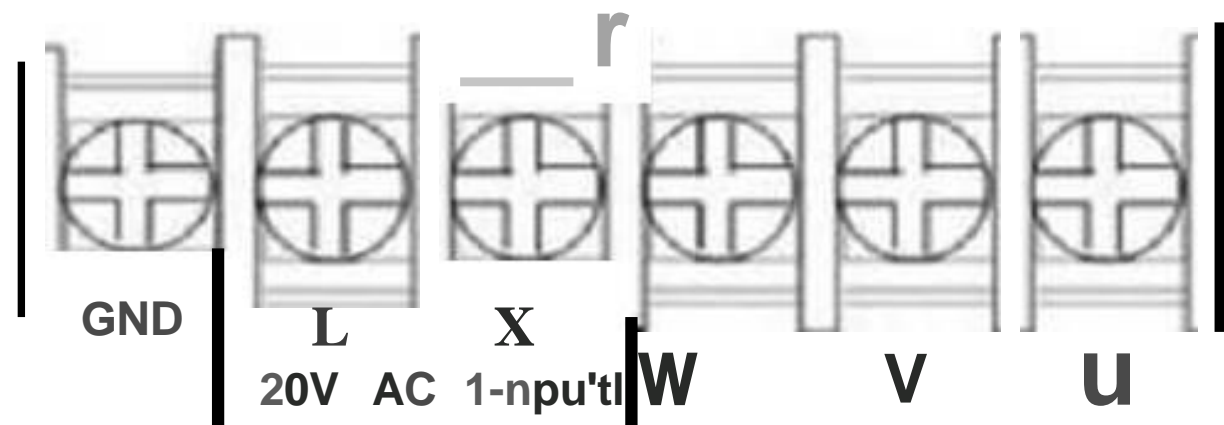


This product is subject to the provision of European Directive 2012/19/EC. The symbol showing a wheeled bin crossed through indicates that the product requires separate refuse collection in the European Union. This applies to the product and all accessories marked with this symbol. Products marked as such may not be discarded with normal domestic waste, but must be taken to a collection point for recycling electrical and electronic devices.

1. Installation and wiring

1. Main circuit terminal and function description

(1) Single-phase to three-phase



| Terminal label | Function description |
|----------------|--|
| L,N | Single phase AC 220V input terminal |
| U,V,W | Output terminal connect to Three phase 220V AC motor |
| GND | Grounding terminal |

2. Terminal description

| Port | Functional description | Instructions |
|-----------|---|--|
| 15V | 15V power output | 200mA15V output |
| X6 | Input port6 (Reversing switch) | Short Port X6 and COM, input signal effective |
| X5 | Input port 5(Reverse rotation Control switch) | Short Port X5 and COM, input signal effective |
| X4 | Input port 4(Forward rotation Control switch) | Short Port X4 and COM, input signal effective |
| X3 | Input port 3(section-speed 3) | Short Port X3 and COM, input signal effective |
| X2 | Input port 2(section-speed 2) | Short Port X2 and COM, input signal effective |
| X1 | Input port 1(section-speed 1) | Short Port X1 and COM, input signal effective |
| COM | Common GND | |
| VL1 | External analog voltage input | 0-5/10 V Analog voltage input |
| SP1 | Open-collector output 1 | |
| 5V | 5V power output | supply 5V 20mA power output |
| TC | Relay output C | 250VAC 5A/30VDC 3A TAand TB Normal Close ,TAand TC Normal Open |
| TB | Relay output B | |
| TA | Relay output A | |

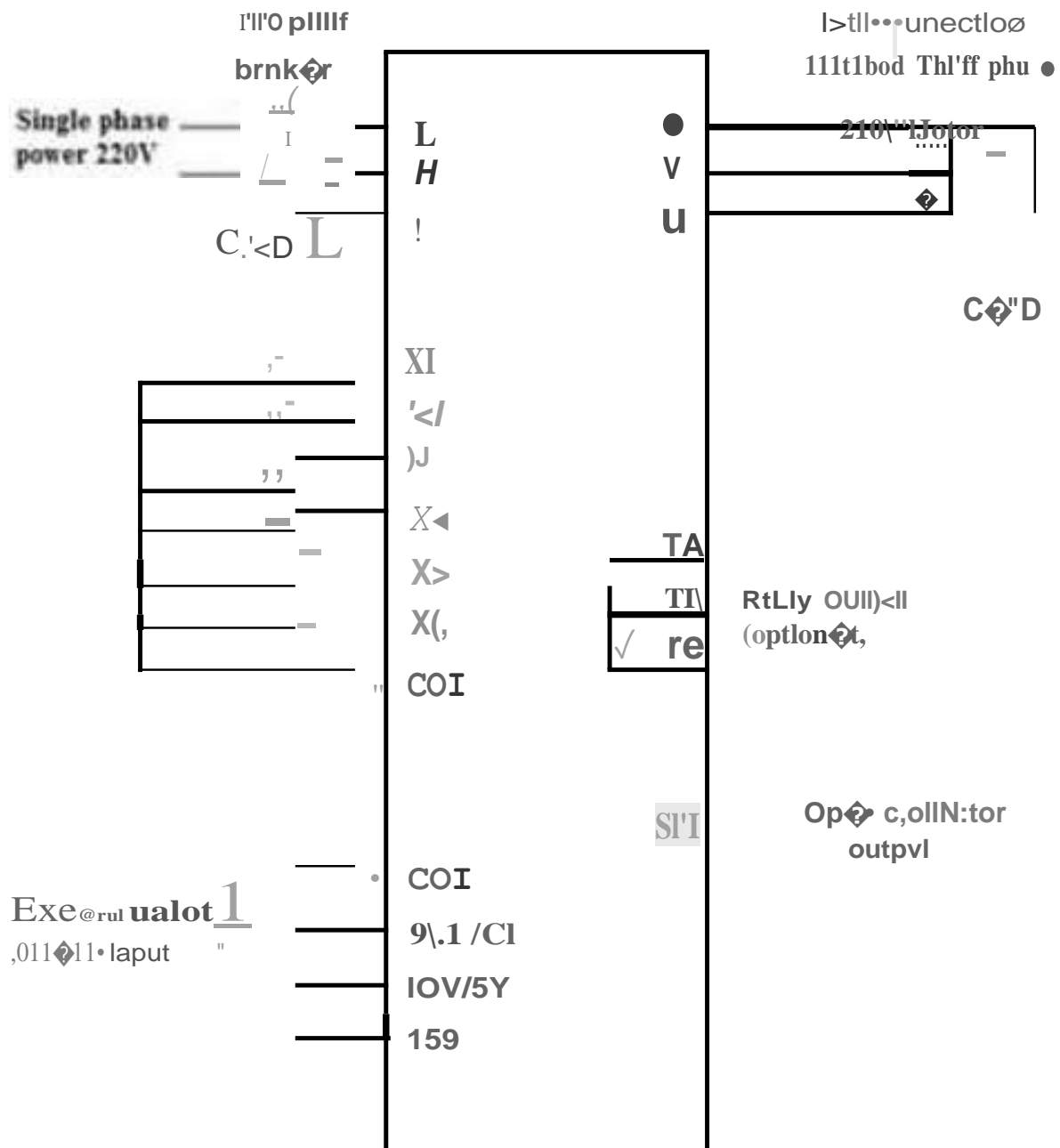
3. Multi-speed input Frequency control table :

| | Section speedinput 1 | Section speedinput2 | Section speed input 3 | Original Frequency |
|-----------------|--|------------------------|--------------------------|-----------------------|
| Main Speed | 1 | 1 | 1 | 50 |
| Section speed 1 | 0 | 1 | 1 | 45 |
| Section speed 2 | 1 | 0 | 1 | 40 |
| Section speed 3 | 0 | 0 | 1 | 35 |
| Section speed 4 | 1 | 1 | 0 | 30 |
| Section speed 5 | 0 | 1 | 0 | 25 |
| Section speed 6 | 1 | 0 | 0 | 20 |
| Section speed 7 | 0 | 0 | 0 | 15 |
| Note: | 0 means input Port connect with COM, 1 means disconnect. | | | |

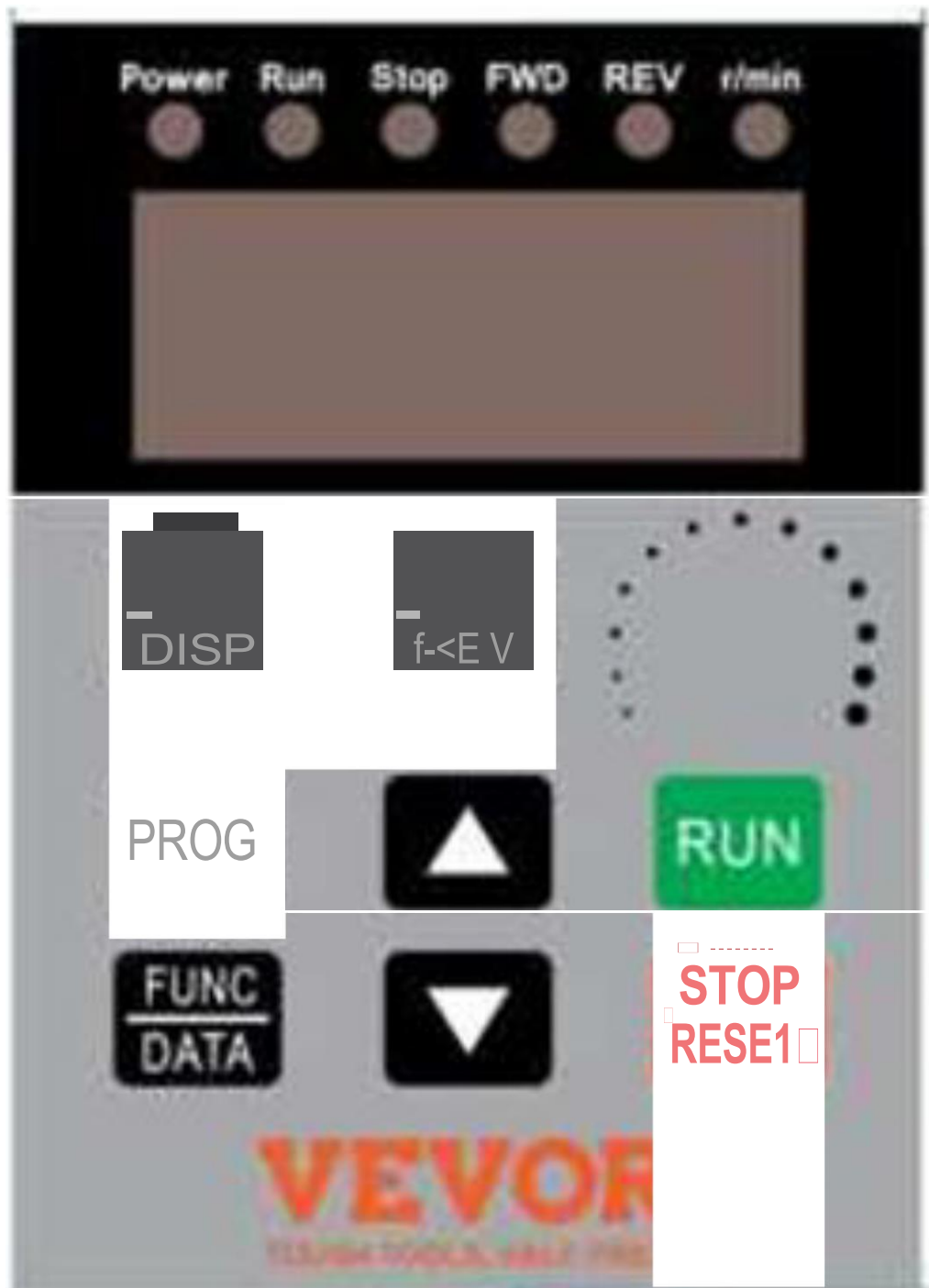
4. Basic operation wiring diagram

(1) Single-phase input three-phase output

(Three phase 220V, if 380V Star-connection method needs to change to the 220V Delta-connection method)



- **Operation panel**



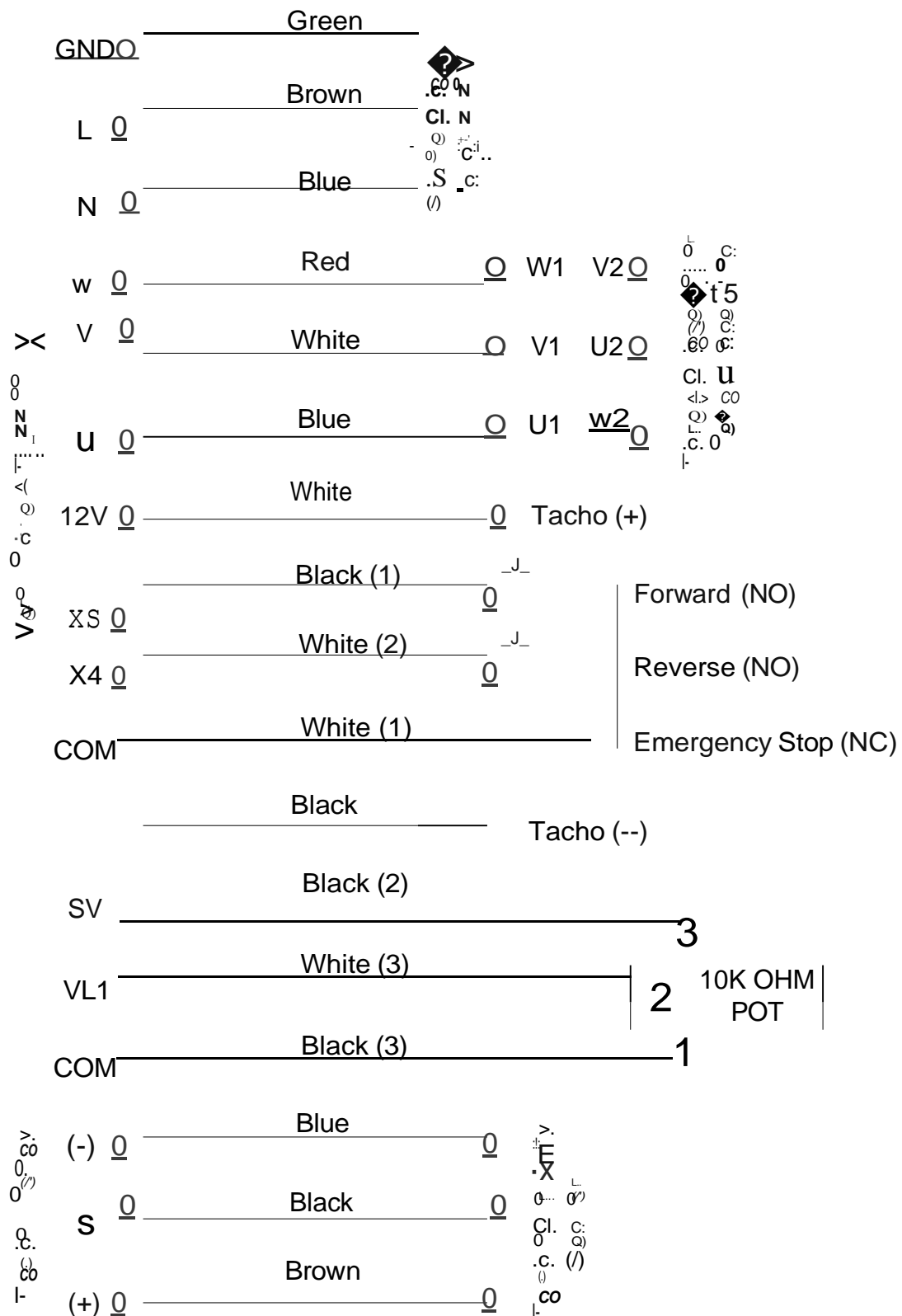
6. Keys instructions

| | Icon | Function description | |
|------|--|--|--|
| 1 | (Programming) | For selecting mode or Programming mode (it is available not mater the Inverter star or stop), press this key for modifying parameters. | |
| 2 | (Function/ Save) | Function data setting key. Normal mode: press this key to display the information of the Inverter,such as target frequency, output frequency and current, temperature; | |
| 3 | Key (. =) | Parameter number or parameter value increase | Short press this key, then the numerical value will change gradually.Long press this key, then the numerical value will change rapidly |
| 4 | Key (■ ■ ■) | Parameter number or parameter value decrease | |
| 5 | Shift | Shift in programming mode, jog in normal mode | |
| 6 | Forward/ Reverse | Forward/ Reverse switching key | |
| 7 | Start | Start Inverter output | |
| 8 | Stop/ Reset | Break down,fault resetting | |
| Note | Please modify the parameters under the stop state, otherwise the changed parameters cannot be saved. | | |

STUTEY 3040 Lathe

Wiring Diagram

Using Vevor AT1-2200X Drive



Parameter Settings for Vevor AT1-220X Drive unit

| Parameter | Parameter Specification | Parameter Range | Default | Unit | Amended Value |
|-----------|-----------------------------|---|---------|---------|---------------|
| P00 | Maximum Voltage | 0-220.0/380.0 | 220/380 | V | 220 |
| P01 | Reference Frequency | 0-400.0 | 50 | Hz | |
| P02 | Intermediate Voltage | 0-220.0/380.0 | 110/190 | V | 110 |
| P03 | Intermediate Frequency | 0-400.0 | 25 | Hz | 40 |
| P04 | Minimum Voltage | 0-220.0/380.0 | 0 | V | |
| P05 | Minimum Frequency | 0-400.0 | 0 | Hz | |
| P06 | Maximum Operating | 0-400.0 | 65 | Hz | 140 |
| P07 | Minimum Operating | 0-400.0 | 0 | Hz | 5 |
| P08 | Hide Password | 0-65535 | 00000 | | |
| P09 | Input Password | 0-65535 | 0 | | |
| | | 0: Panel Keyboard 1: Panel Potentiometer 2: External Analogue Signal 4: RS485 | | | |
| P10 | Working Frequency Source | | 1 | | 2 |
| | | 0: Panel Keyboard 1: RS485 2: External Port | | | |
| P11 | Start / Stop Control Source | | 0 | | 2 |
| | | 0: Inertial Stop 1: Deceleration Stop 2: Brake Stop 3: Emergency Brake | | | |
| P12 | Stopping Modes | | 1 | | |
| P13 | Braking Time | 0-2.5 | 0.5 | Seconds | 1.0 |
| P14 | Braked Voltage | 0-140.0 | 20 | V | |
| P15 | Not Listed | | 2 | | |

| Parameter | Parameter Specification | Parameter Range | Default | Unit | Amended Value |
|-----------|--|---|---------|---------------|----------------|
| P16 | Not Listed | | 1 | | |
| P17 | Machine Number | 1-255 | 1 | | |
| P18 | Operating Arrival | 0-100.0 Input Power Supply either 50 or 60 HZ | 50 | Hz | (60 if USA) |
| P19 | Not Listed | | 50 | | |
| P20 | Over Temperature Protection Selection | 1-80.0 | 80 | | |
| P21 | Revolution for 50 Hz | 0-8000 | 2800 | rpm | 1480 |
| P22 | Carrier Setting | 1-20 | 10 | | 15 |
| P23 | Frequency Adjusting Step Size | 1-100 | 5 | 0.1 Hz | |
| P24 | Overload Protection Buffer Time | 0.1-60.0 | 3 | Seconds | |
| P25 | Motor Poles | 0: 2 Poles 1: 4 Poles 3: 6 Poles | 1 | | |
| P26 | Working Frequency | 0-400.0 | 50 | Hz | |
| P27 | Section Speed 1 Setting | 0-400.0 | 45 | Hz | |
| P28 | Section Speed 2 Setting | 0-400.0 | 40 | Hz | |
| P29 | Section Speed 3 Setting | 0-400.0 | 35 | Hz | |
| P30 | Section Speed 4 Setting | 0-400.0 | 30 | Hz | |
| P31 | Section Speed 5 Setting | 0-400.0 | 25 | Hz | |
| P32 | Section Speed 6 Setting | 0-400.0 | 20 | Hz | |
| P33 | Section Speed 7 Setting | 0-400.0 | 15 | Hz | |
| P34 | Main Rising Velocity | 0-1000 | 25 | Hz/Sec ond | 10 |
| P35 | 1st Rising Velocity | 0-1000 | 25 | Hz/Sec ond | |
| P36 | 2nd Rising Velocity | 0-1000 | 25 | Hz/Sec ond | |
| P37 | 3rd Rising Velocity | 0-1000 | 25 | Hz/Sec ond | |
| P38 | 4th Rising Velocity | 0-1000 | 25 | Hz/Sec ond | |
| P39 | 5th Rising Velocity | 0-1000 | 25 | Hz/Sec ond | |
| P40 | 6th Rising Velocity | 0-1000 | 25 | Hz/Sec ond | |
| P41 | 7th Rising Velocity | 0-1000 | 25 | Hz/Sec ond | |
| P42 | Main Descent Velocity | 0-1000 | 25 | Hz/Sec ond | 30 |
| P43 | 1st Descent Velocity | 0-1000 | 25 | Hz/Sec ond | |

| Parameter | Parameter Specification | Parameter Range | Default | Unit | Amended Value |
|-----------|---|--|---------|---------------|---------------|
| P44 | 2nd Descent Velocity | 0-1000 | 25 | HZ/Sec ond | |
| P45 | 3rd Descent Velocity | 0-1000 | 25 | HZ/Sec ond | |
| P46 | 4th Descent Velocity | 0-1000 | 25 | HZ/Sec ond | |
| P47 | 5th Descent Velocity | 0-1000 | 25 | HZ/Sec ond | |
| P48 | 6th Descent Velocity | 0-1000 | 25 | HZ/Sec ond | |
| P49 | 7th Descent Velocity | 0-1000 | 25 | HZ/Sec ond | |
| P50 | Multi Function Input 1 (X1 Binding Post) | 0: Invalid (not functioning) 1: Wire Control Stop | 13 | | |
| P51 | Multi Function Input 2 | 2: Keying Stop 3: Keying Operation 4: Stop Keying 5: Wire Forward Operation | 14 | | |
| P52 | Multi Function Input 3 | 6: Wire Reverse Operation 7: Reservation | 15 | | |
| P53 | Multi Function Input 4 | 8: Error Reset Signal 9: Wire Reversing Switch | 5 | | 5 |
| P54 | Multi Function Input 5 | 10: Keying Forward Switching 11: Keying Forward Switching 12: Reverse Switch Keying | 6 | | 6 |
| P55 | Multi Function Input 6 | 13: Section Speed Input 1 14: Section Speed Input 2 15: Section Speed Input 3 16: External Error Signal 17: Jog Forward 18: Jog Reverse | 9 | | |
| P56 | Not Listed | | 0 | | |
| P57 | Not Listed | | 0 | | |

| Parameter | Parameter Specification | Parameter Range | Default | Unit | Amended Value |
|-----------|---------------------------------|--|-------------|------|---------------|
| P58 | Multi Function Input 1 (SP1) | 0: Invalid - No Output 1: Operating Instructions 2: Set Arrival Instructions 3: Fault Indication 5: Emergency Stop 6: For P50 to P55, =20 | 0 | | |
| P59 | Not Listed | | 0 | | |
| P60 | Multi Function Input 2 | Idem (Relay Output) | 0 | | |
| P61 | Not Listed | | 0 | | |
| P62 | Display Options | 0: Setting Frequency 1: Operating Frequency 2: Revolution 3: Current 4: Temperature 5: Time | 0 | | 1 |
| P63 | Not Listed | | 0 | | |
| P64 | Not Listed | | 512 | | |
| P65 | Power On Options | 0: Normal Power On 1: Report Error with Start Signal 2: Power on Forward 3: Power on Reverse | 0 | | |
| P66 | Input Stabilization Time | 0-65535 | 60 | mS | |
| P67 | Voltage Coefficient | 0-65535 | 28500 | | |
| P68 | Under Voltage Setting | 0-220/380 | 60/180 | V | 60 |
| P69 | Overvoltage Setting | 220.0 - 400/680 | 400/60 0 | V | 400 |
| P70 | Torque Compensation Options | 0: P72 is Compenstaion Amount 1: Multiply P72 by P71 after P71 minus input Voltage | 0 | | |
| P71 | Torque Compensation Voltage | 0-300.0 | 10 | V | |
| P72 | Torque Compensation Setting | 0-100 | 0 | | 80 |
| P73 | Maximum External Analogue | 0-65535 | 31440 | | |
| P74 | Minimum External Analogue | 0-65535 | 2096 | | |
| P75 | Zero Current Compensation Value | 0-65535 | 1130 | | |
| P76 | Current Coefficient | 0-65535 | 28000 | | |
| P77 | Parameter Reset | 0-65535 It is the Reset when 54321 | 0 | | |

| Parameter | Parameter Specification | Parameter Range | Default | Unit | Amended Value |
|-----------|--------------------------|---|---------|---------------|---------------|
| P78 | Main Current Overload | 0-65535 | 12000 | mA | 7800 |
| P79 | First Current Overload | 0-65535 | 12000 | mA | |
| P80 | Second Current Overload | 0-65535 | 12000 | mA | |
| P81 | Third Current Overload | 0-65535 | 12000 | mA | |
| P82 | Fourth Current Overload | 0-65535 | 12000 | mA | |
| P83 | Fifth Current Overload | 0-65535 | 12000 | mA | |
| P84 | Sixth Current Overload | 0-65535 | 12000 | mA | |
| P85 | Seventh Current Overload | 0-65535 | 12000 | mA | |
| P86 | Jog Forward Frequency | 0-400.0 | 20 | Hz | |
| P87 | Jog Reverse Frequency | 0-400.0 | 20 | Hz | |
| P88 | Jog Rising Velocity | 0-1000 | 25 | HZ/Sec ond | HZ/Sec ond |
| P89 | Jog Descent Velocity | 0-1000 | 25 | | |
| P90 | Jog Stopping Modes | 0: Inertial Stop 1: Deceleration Stop 2: Brake Stop 3: Emergency Brake | 1 | | |
| P91 | Jog Braking Time | 0-2.5 | 0.1 | S | |
| P92 | Not Listed | | 0 | | |
| P93 | Not Listed | | 16384 | | |
| P94 | Not Listed | | 49152 | | |
| P95 | Not Listed | | 0 | | |
| P96 | Not Listed | | 1 | | |
| P97 | Not Listed | | 0 | | |
| P98 | Not Listed | | 0 | | |
| P99 | Not Listed | | 0 | | |
| P100 | Not Listed | | 0 | | |
| P101 | Not Listed | | 0 | | |
| P102 | Not Listed | | 32 | | |
| P103 | Not Listed | | 280 | | |
| P104 | Not Listed | | 260 | | |
| P105 | Not Listed | | 0 | | |
| P106 | Not Listed | | 0 | | |
| P107 | Not Listed | | 21301 | | |
| P108 | Not Listed | | 1 | | |
| P109 | Not Listed | | 600 | | |
| P110 | Not Listed | | 500 | | |
| P111 | Not Listed | | 0 | | |
| P112 | Not Listed | | 0 | | |
| P113 | Not Listed | | 0 | | |
| P114 | Not Listed | | 65535 | | |

| Parameter | Parameter Specification | Parameter Range | Default | Unit | Amended Value |
|-----------|-------------------------|--|---------|---------|---------------|
| P115 | Not Listed | | 0 | | |
| P116 | Not Listed | | 100 | | |
| P117 | Not Listed | | 0 | | |
| P118 | Not Listed | | 50 | | |
| P119 | Not Listed | | 5000 | | |
| P120 | Not Listed | | 500 | | |
| P121 | Not Listed | | 0 | | |
| P122 | Not Listed | | 0 | | |
| P123 | Not Listed | | 30000 | | |
| P124 | Fan Start Temperature | 0: Fan Running when VFD Starts 30: Fan starts at nominated Temp | 0 | Deg Cel | 30 |
| P125 | Not Listed | | 199 | | |
| P126 | Not Listed | | 0 | | |
| P127 | Remaining Hours | 0-65535 | 65535 | H | 65550 |

2. Parameter setting password and Down time

stop:

P08 is the hidden password, it always shows only 00000, not the actual value.

When input the value of P09=the hidden value of P08, the P08 shows hidden value, and the P08 and other parameters can be changed. The P09 will be nullified when unplug the power cable to restart.

When P127=65535,the function of countdown do not start.

When P127 < 65535,the function of countdown will start, the P127 will minus 1 when the Inverter runs for one hour. The frequency converter will be stopped when the countdown of P127 to 0 hour.

3. Parameter setting procedure:

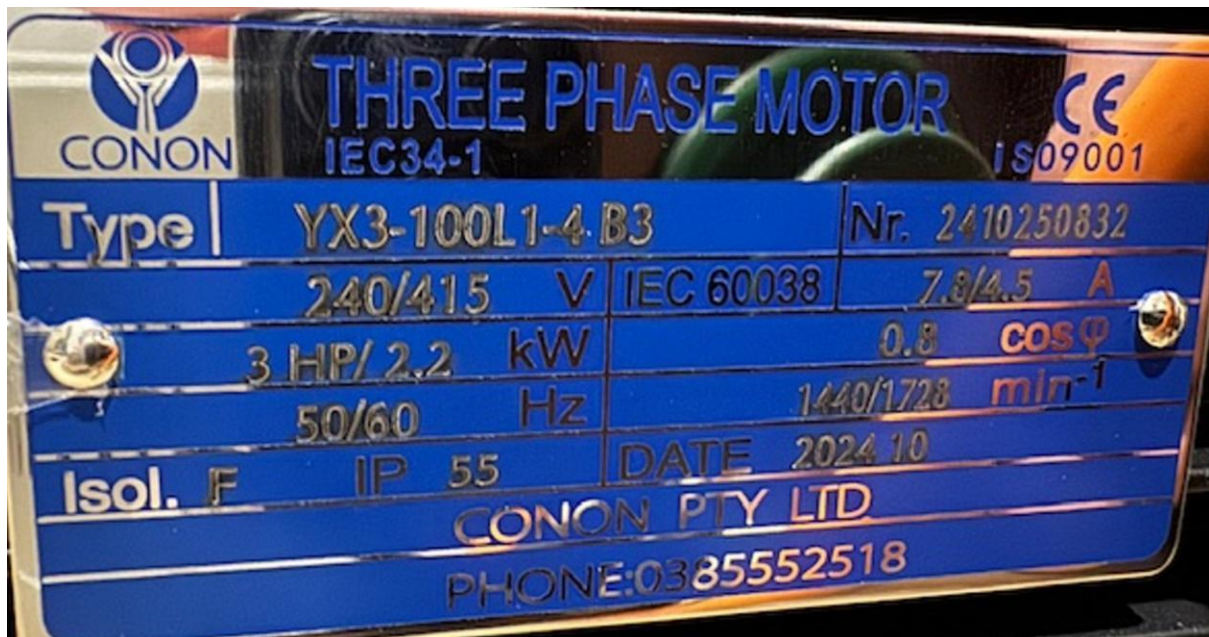
1. Press the programming key to enter into the programming state.,,
2. Use the arrow keys and shift key to find the parameters that need to be modified.,,
3. Press function/save key to enter into the parameter;
4. Use the arrow keys and shift key to amend the parameter value.,,
5. Press the function save key to store the parameter;
6. Press the programming key to exit the programming state.

7. Fault Code

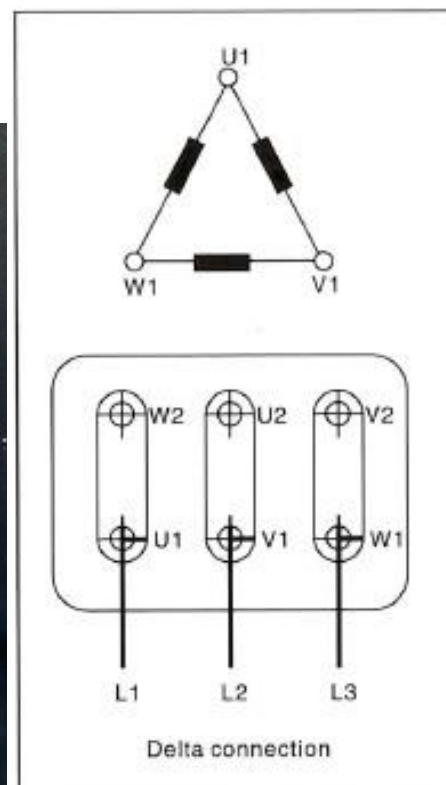
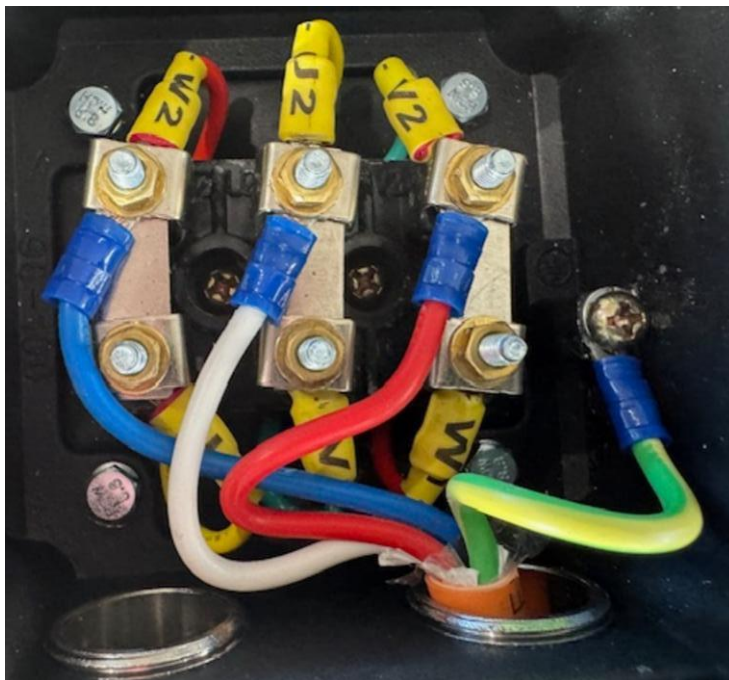
| Fault Code Display | Fault Code Description |
|--------------------|---|
| Err 1 | Short Circuit/Current overload/Power Module protection |
| Err 2 | Undervoltage protection |

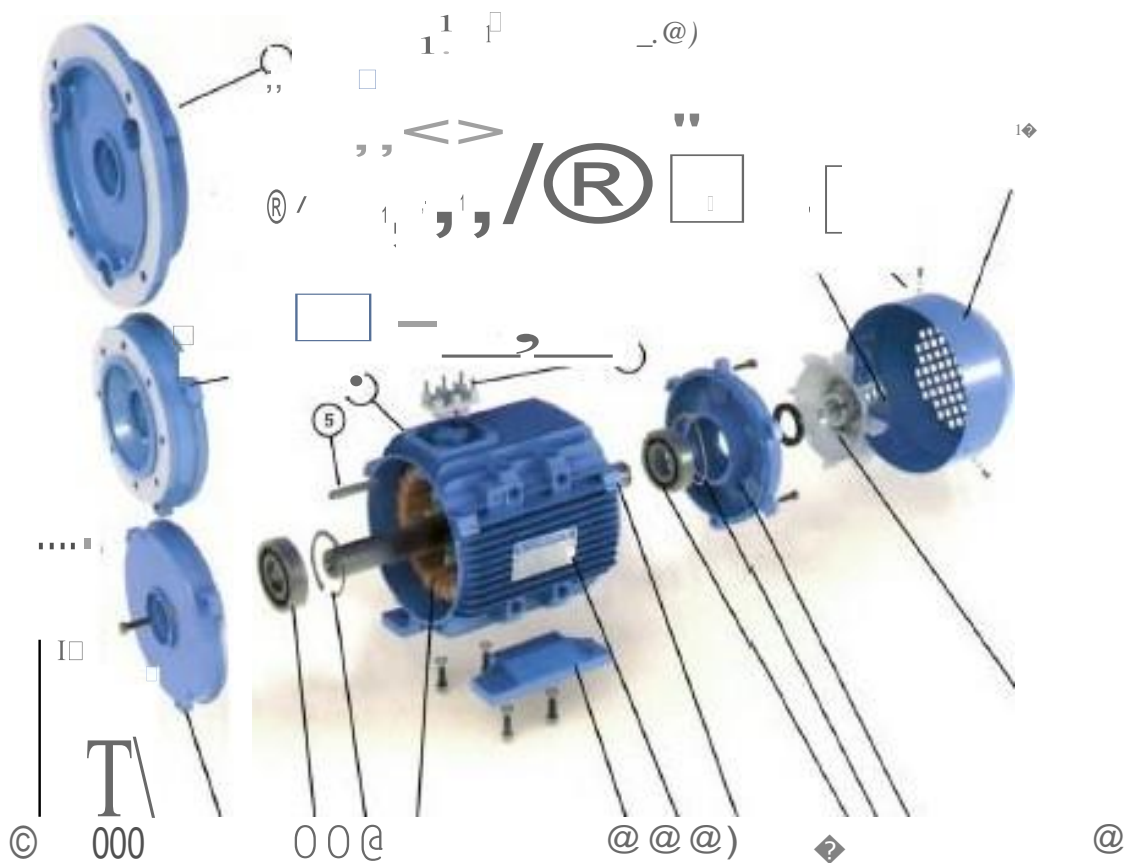
| | |
|-------|-------------------------------------|
| Err 3 | Over voltage protection |
| Err 4 | Driving Circuit Failures |
| Err 5 | Input at startup when electrified |
| Err 6 | Over current protection |
| Err 7 | Overtime |
| Err 8 | Excessive temperatures for radiator |
| Err 9 | External fault |

Motor Details



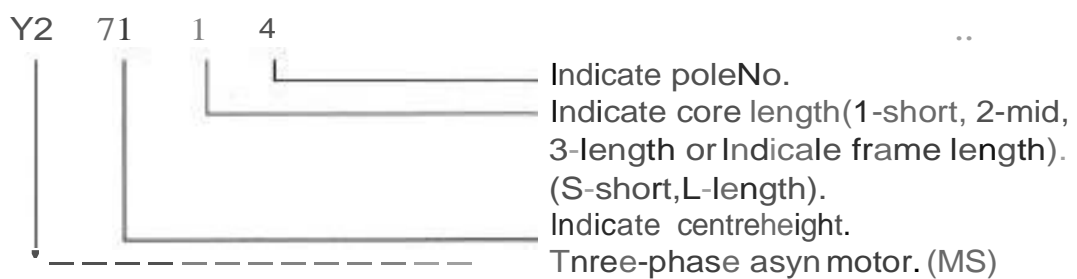
Delta connection

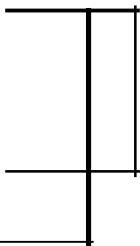




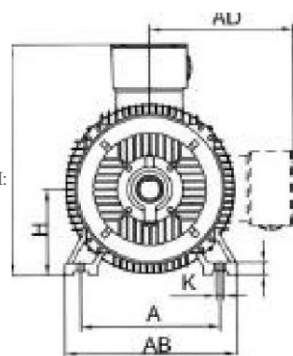
- | | | | |
|-----------------------|------------------|--------------------|-------------------------|
| 1. 85 Flange | &.SpringWasher | 15. Rottr | 22.fandamp |
| 2. 814 Røngo | 9. Cirdip | 10. Gaskell | 23. Teonlnal boit lid |
| 3. Frortt Endstiiield | to. wavewnshP.I' | 17. RearEnd:shield | 2-1. Terminal boll base |
| 4. Frtime | t1. Bellring | 18. Fan | 25.Cableglane! |
| 5.Kqy | 12.S-..t!!'1 | 19. Fan Cover | 26. Tr.1mioa1board |
| 6. Oil59t11(Vring) | 13,F-wt | 20. Screw | |
| 7. Boll | 14.NameplalB | 21,W;asho1 | |

I. Na1nc of I\-todel:





80-355

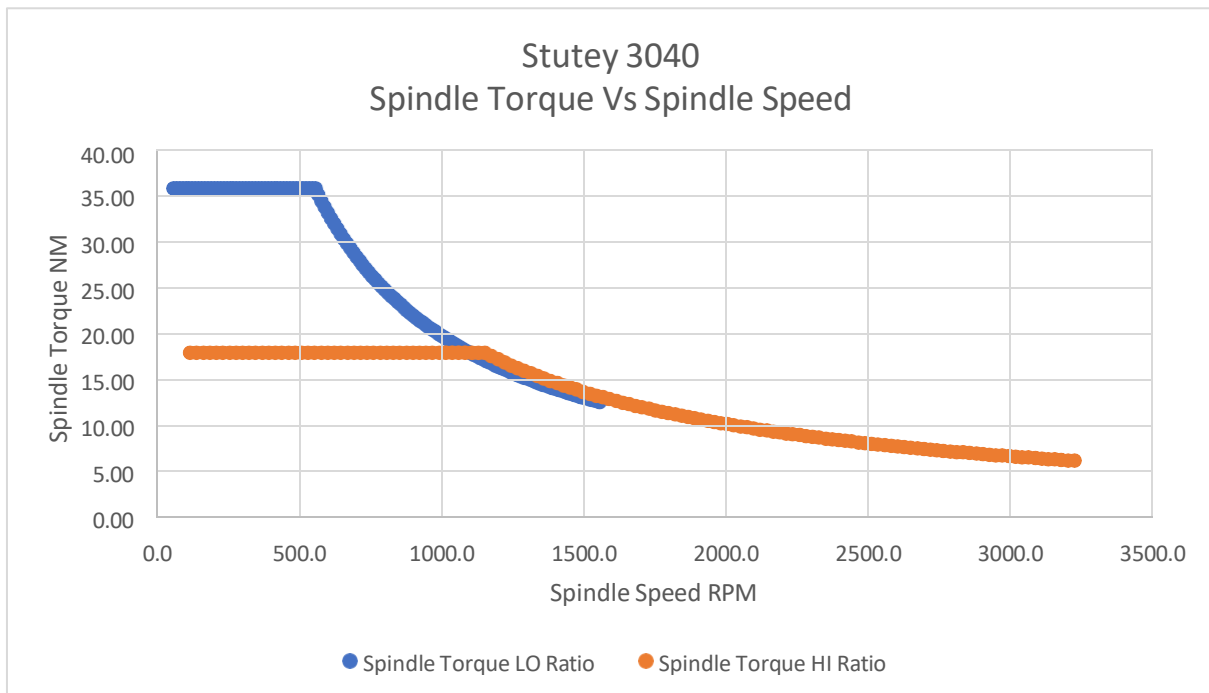
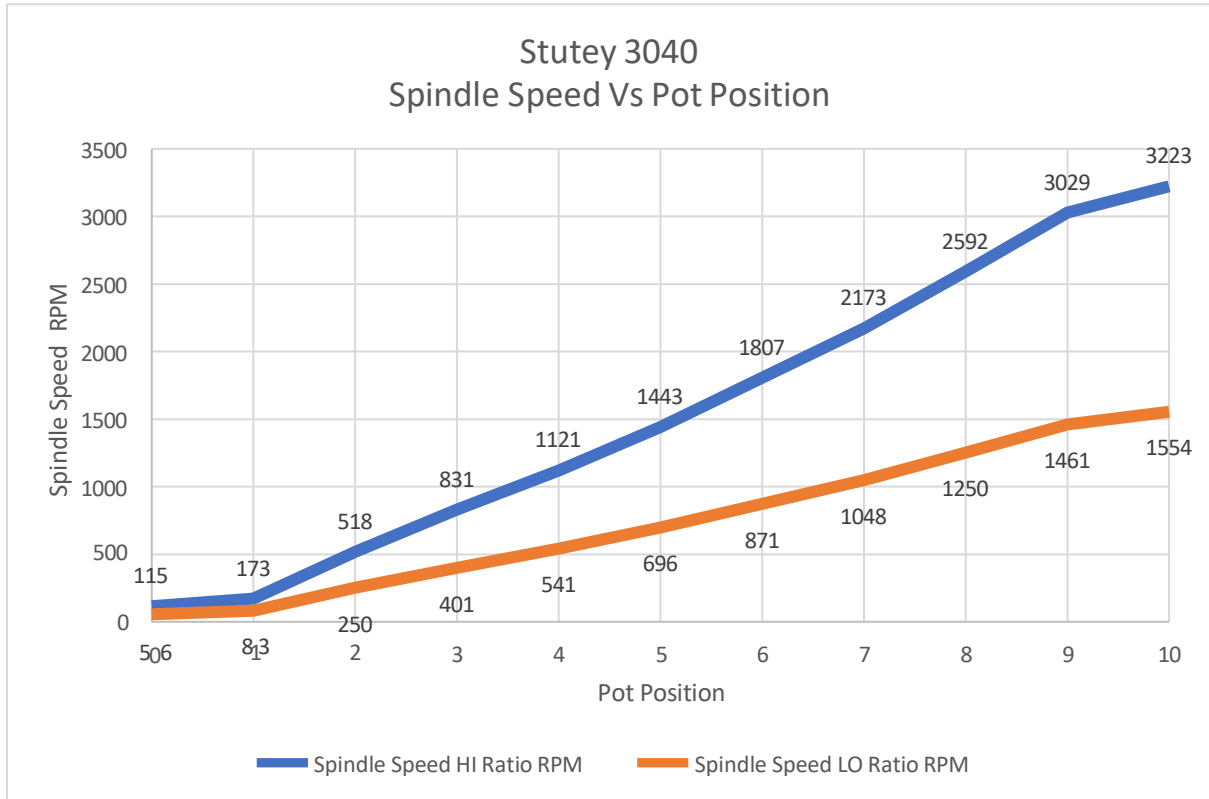


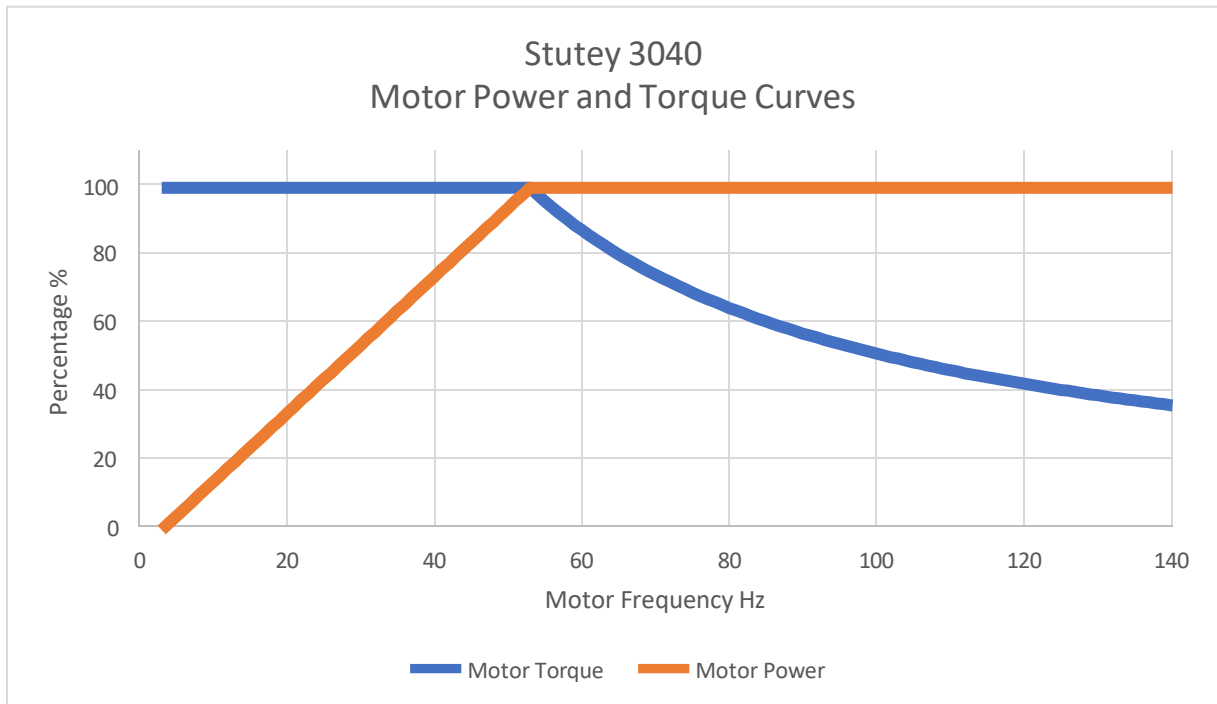
80-355

WITHOUT FLANGE(IM B3)

| FRAME SIZE. | POLES | A | AU | - | C | 0 | ! | F | I3 | H | tt | i.i! | j.i: | "D | HD | L | OH• |
|-------------|--------|-------|--------|-------|------|------|-------|-----|--------|-------|------|-------|-------|--------|---------|--------|------------|
| litM | 2-4 G | 125 | 62.5 | 100 | 50 | ill | ◆0 | ID | 15J | eo | 10 | 1=00 | 1ff7 | ◆ | ll0 | 300 | lit.6X1G |
| OOS | 2.116 | 1'10 | 70 | 100 | 56 | 24 | 1,0 | 8 | W | 00 | 10 | 176 | 180 | 160 | 255 | 1:30 | MflX19 |
| n.v | 2.olt. | 1'10 | 70 | llb | llli | 24 | 50 | B | 20 | g) | 10 | 1ro | 11:10 | 150 | 255 | 1:ro! | ◆◆X19 |
| 100L | 24.B | U(0 | BD | 140 | fi:3 | 28 | Rll | B | :24 | 100 | 1? | 7nn | 2-0ll | 1Ti | 210 | 1100 | M10X22 |
| 11ZM | 24 6 | H:J | 85 | 1110 | 70 | 28 | 61) | A | 24 | 112 | 1◆ | :.nn | 220 | 11111 | 11111 | 11111 | M10J10 |
| 1:2S | 24B | 2:16 | lllB | 14q 1 | 0KJ | :U! | | 10 | -33 | 132 | 12 | 2'10 | 259 | 11:0 | 845 | 1'70 | 12:m |
| l32M | 2.1 1l | 216 | 106 | 11'1 | 89 | 3◆ | :!O | 10 | 3J | 132 | 12 | 2'10 | 259 | 1:11'1 | 11111 | 1:110 | M12>1.2B |
| H,OM | :HG. | | 127 | 210 | 10B | d.2 | 111J | -J | 1'J | H1O | 15 | 320 | 3115 | 255 | 112(1 | 1:1◆ | M16"16 |
| 6Ut | :Z+H} | ◆ | 127 | 254 | .08 | 42 | 110 | 2 | :N | 100 | 5 | 320 | 3.15 | 255 | 1'W | tig! | M1G 1 |
| IEOM | 21,6 | Z111 | 139... | 241 | 121 | B | 110 | | 112> | 1@:1 | ◆ | 355 | 365 | 2&J | ◆Eis | 7'1□ | MH.>00 |
| lllOL | 211 6 | 27◆ | 1:◆0.1 | 1:79 | 1:11 | 9 | 11□ | | il.25 | 160 | 1> | 11'11 | ◆55 | 2:00 | 1156 | 7 0 | M16><◆ |
| 200L | 246 | :mi: | 159 | :0H | :1J | 5li | 10 | Ul | :tll | 200 | 19 | 3'15 | 3-97 | 1'W | 5(5 | 70 | M2D 2 |
| nSS | 4 | 351> | 178 | 200 | 11S | ◆ | "10 | 18 | 53 | 225 | 19 | 135 | 445 | ◆f: | liiO | 816 | M120><42 |
| 22 1 | ◆ | 356 | 178 | 311 | 149 | ss | 1m | li | :j\$ | 22 | 1q | 435 | 441i | 133f | 1:1i0 | 820 | 11.120 |
| | 48 | 356 | 1111 | 999 | 1 9 | 00 | HD | 1B | 53 | 2:ti> | 19 | 41j | 445 | 336 | 5-fi0 | 8◆5 | 1120....2 |
| 2&D 1 | 2 | 10B | 213 | 31'9 | 1&8 | 6◆ | 140 | 18 | 51 | 250 | 24 | 400 | 1'85 | 370 1 | 615 | 920 | (ltoL2 |
| | HI | 4□fl | 213 | 349 | 1æ | 65 | 14-0 | 10 | ◆ | 250 | 2◆ | 4110 | 4◆ | 370 | mi, | ◆1) | M.20"42 |
| JHS | 2 | | 2◆6 | 368 | 100 | 85 | 140 | HI | 1'2 | 11:10 | 2- | 560 | 547 | a,0 | 6RO | flr.15 | ilVCL:-42 |
| | 6 | 1157 | 1:1un. | 1if.S | 100 | 75 | 1c.o | 20 | 157.Ei | ZHIJ | 1.4 | 11111 | 547 | <llD | 00 | 995 | 11 2.0:1A2 |
| | 2 | | 22145 | 111H) | 190 | 0 | 1110 | HI" | 58 | 280 | 211 | 55:◆ | 547 | 1'10 | 600 | 1045 | 1120)"42 |
| 2801\. | 1JG | 457 | 221Hi | 419 | 1m0 | 7E. | M1J | m | 62.li | 1æ0 | 24 | 660 | h4? | 410 | 1jfl.11 | 104-. | ◆00--42 |
| ij5S | 2 | 11111 | | 4,06 | 111B | 65 | 1110 | 15 | 58 | 311 | | 15 | 620 | 630 | ◆5 | 1185 | MM◆ |
| | 4 B | 60S | 2◆0 | 1:0E. | 111: | SO | 170 | 2:2 | 71 | 315 | 28 | 6:11 | 620 | t◆ | 846 | 1220 | M20"-12 |
| J'5M | 2 | FIDB | 2&4 | 11111 | 21G | (1ti | 140 | 19 | 68 | 3 5 | 28 | 111J | 620 | 11W | 846 | 12 D | M2D-1<42 |
| | -H, | 51B | 264. | 1167 | 218. | aa | 11(1 | a | 71 | 1.H5 | 2B | 635 | 6ZIJ | 1>JiJ | 114Jj | 1◆11> | M20- |
| ◆◆ | 2 | "oe | 1'G4 | 5,08 | 16. | 61i | 140 | 16 | 156 | 1111 | 28 | M5 | 62D | ell(1 | 8.t5 | 12.0 | M'11>1<42 |
| | 4 B | 808 | 2M | 506 | 21(. | a:1 | 170 | 22 | 71 | 316 | 26 | 6:15 | 6<10 | 1:◆ | 845 | 1325 | M20□:12 |
| 3!t 1 | 2. | 61 | :1llb | 1:6U | 254 | 75 | 140 | 2□ | F:7.5 | J.15 | 28 | no | ema | 11EIE | 1010 | 15(0 | 0◆7 |
| | 416 | 61□ | ◆06 | 5,60 | :264 | 95 | 17(1 | ◆ | 1 | ◆: | 28 | 730 | 698 | 655 | 11110 | 1:1'10 | u 2 |
| 3!!!.il | 1t | 610 | 31'EI | 000 | 264 | 71> | 11111 | 2□ | 1H.◆ | 31:11 | 21l | 730 | 698 | 655 | 1C110 | 11111□ | M.20"42 |
| | '16 | 1:110 | :14J5 | (1.1□ | 2◆ | 13> | 11'0 | 2EI | 8fl | 3S5 | :1fl | ◆ | 888 | 11EIE | 1010 | 1E<10 | 11A20"1j |

Motor Characteristics






Controller Switches

| | |
|---|----------------------------|
| <div>RV24YN20S Potentiometer 100 ohm ~ 1M ohm</div> <div></div> | Potentiometer 10 K OHMS |
| <div></div> | |

ø22 YW Series Emergency Stop Switches

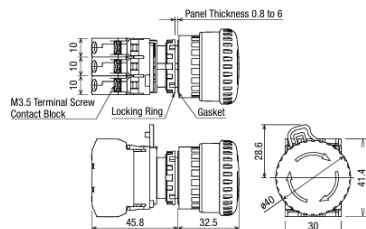
Non-illuminated Emergency Stop Switches (Pushlock Pull/Turn Reset)

Quantity: 1

| Style | Contact | Contact Block Mounting Position | | | Part No. | Button Color Code |
|---|---------|---------------------------------|----|----|-------------|-------------------|
| | | 1 | 2 | 3 | | |
|  | 1NC | — | — | NC | YW1B-V4E01R | Red only |
| | 2NC | NC | — | NC | YW1B-V4E02R | |
| | 3NC | NC | NC | NC | YW1B-V4E03R | |
| | 1NO-1NC | NO | — | NC | YW1B-V4E11R | |
| | 1NO-2NC | NO | NC | NC | YW1B-V4E12R | |
| | 2NO-1NC | NO | NC | NO | YW1B-V4E21R | |

- When pressed, the button is locked in the depressed position, and is reset when either pulled or turned clockwise.

Dimensions



Contact Block Mounting Position





Emergency Stop YW1B-V4E01R

Shape

Knob

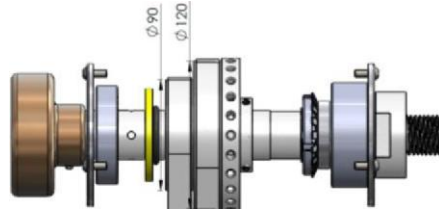


| No. of Positions | Contact Configuration | Contact Block Mounting Position | Operator Position | | | Maintained | Spring Return from Right | — | — |
|--|-----------------------|---------------------------------|-------------------|---|---|-------------|--------------------------|--------------|--------------|
| | | | L | R | — | | | | |
| 90° 2-Position  | 1NO (10) | 1 | NO | | | YW1S-2E10 | YW1S-21E10 | — | — |
| | | 2 | | | | | | | |
| | | 3 | | | | | | | |
| | 1NC (01) | 1 | | | | YW1S-2E01 | YW1S-21E01 | — | — |
| | | 2 | | | | | | | |
| | | 3 | NC | | | | | | |
| | 2NO (20) | 1 | | | | YW1S-2E20 | YW1S-21E20 | — | — |
| | | 2 | | | | | | | |
| | | 3 | NO | | | | | | |
| | 2NC (02) | 1 | | | | YW1S-2E02 | YW1S-21E02 | — | — |
| | | 2 | | | | | | | |
| | | 3 | NC | | | | | | |
| | 1NO-1NC (11) | 1 | NO | | | YW1S-2E11 | YW1S-21E11 | — | — |
| | | 2 | | | | | | | |
| | | 3 | NC | | | | | | |
| | 3NO (30) | 1 | | | | YW1S-2E30 | YW1S-21E30 | — | — |
| | | 2 | | | | | | | |
| | | 3 | NO | | | | | | |
| | 3NC (03) | 1 | | | | YW1S-2E03 | YW1S-21E03 | — | — |
| | | 2 | | | | | | | |
| | | 3 | NC | | | | | | |
| 45° 3-Position  | 2NO (20) | 1 | NO | | | YW1S-3E20 | YW1S-31E20 | YW1S-32E20 | YW1S-33E20 |
| | | 2 | | | | | | | |
| | | 3 | NO | | | | | | |
| | 2NO (20N1) | 1 | | | | YW1S-3E20N1 | YW1S-31E20N1 | YW1S-32E20N1 | YW1S-33E20N1 |
| | | 2 | NO | | | | | | |
| | | 3 | NO | | | | | | |
| | 2NC (02) | 1 | | | | YW1S-3E02 | YW1S-31E02 | YW1S-32E02 | YW1S-33E02 |
| | | 2 | | | | | | | |
| | | 3 | NC | | | | | | |
| | 2NC (02N1) | 1 | | | | YW1S-3E02N1 | YW1S-31E02N1 | YW1S-32E02N1 | YW1S-33E02N1 |
| | | 2 | NC | | | | | | |
| | | 3 | NC | | | | | | |
| | 1NO-1NC (11) | 1 | | | | YW1S-3E11 | YW1S-31E11 | YW1S-32E11 | YW1S-33E11 |
| | | 2 | | | | | | | |
| | | 3 | NC | | | | | | |
| | 1NO-1NC (11N1) | 1 | | | | YW1S-3E11N1 | YW1S-31E11N1 | YW1S-32E11N1 | YW1S-33E11N1 |
| | | 2 | | | | | | | |
| | | 3 | NO | | | | | | |
| | 1NO-1NC (11N2) | 1 | | | | YW1S-3E11N2 | YW1S-31E11N2 | YW1S-32E11N2 | YW1S-33E11N2 |
| | | 2 | | | | | | | |
| | | 3 | NC | | | | | | |
| | 1NO-1NC | 1 | | | | | | | |

Forward Reverse Switch

3 Position Maintained

YW1S-3E20



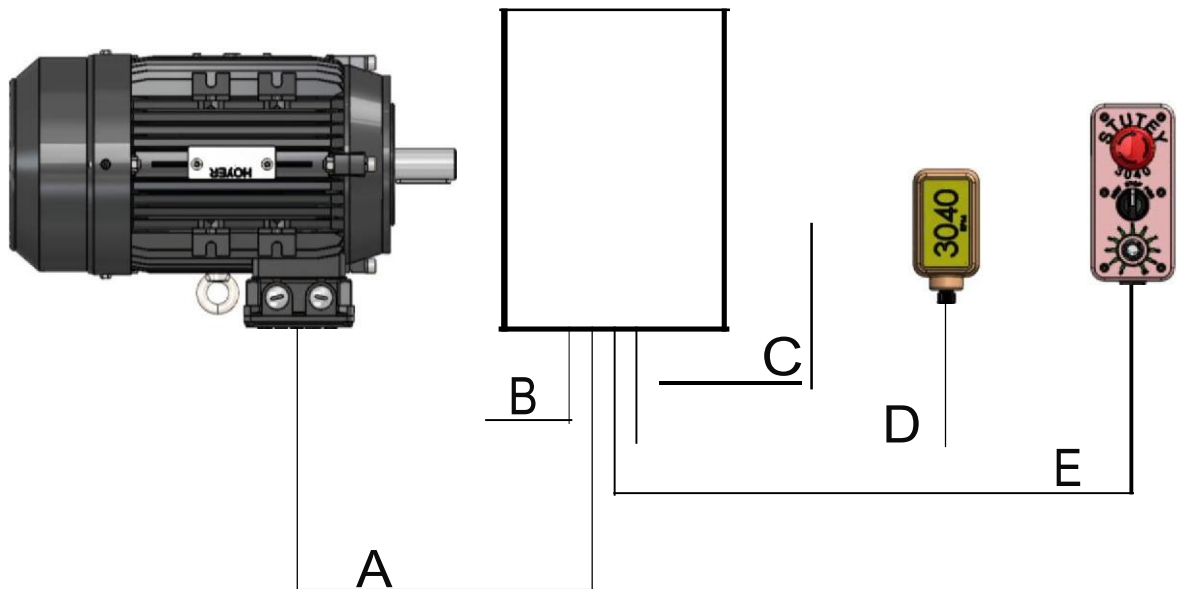
Hi Ratio $70/90 = 0.7777$
 Lo Ratio $45/120 = 0.3750$
 Motor speed 5 to 140 HZ
 Motor Speed at 50 HZ = 1480RPM

Hi Ratio 115 RPM to 3223 RPM
 Lo Ratio 55 RPM to 1555 RPM

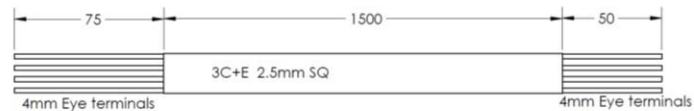


Belt
 Micro - V
 J Section, 8 Ribs
 711mm long
 280J PJ711

Motor 3Ph
 4 Pole
 1480 RPM @ 50 Hz No Load
 1440 RPM @ 50 HZ Full Load
 Frame 100L-B14
 Shaft 28mm



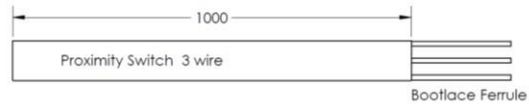
Cable A



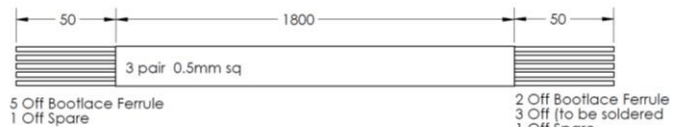
Cable B



Cable C



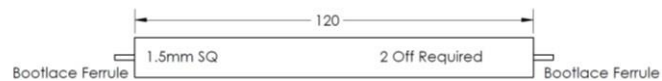
Cable D



Cable E



Cable F



Comments

- 1 The motor rated speed at 50 Hz is given as 1440 RPM at full load and 1480 RPM at no load.
- 2 For the VFD setup the no load speed has been used.
- 3 The information in this document is based on a 50 HZ input frequency
- 4 Parameter P018 relating to the supply input frequency and should be 50 for Australia and 60 for USA for example
- 5 All other parameters should be ok and not need changing for 60 Hz supply
- 6 The Lathe has two belt Positions giving a HI and LO Ratio. For the vast majority of users the HI ratio will be more than satisfactory