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(ACI) 3: Frequency set by communication 4: Keypad Frequency parameter : Potentiometer on Keypad 1: Analog Signal Input. (Motor Three-phase induction motor. Motor Earth terminal (Protective Earth). 0: Disabled 1: Enabled Note 4-19 50 Group 09 Communication function setup No. Description Assigned Communication Station Number RTU code /ASCII code select Baud Rate Setting (bps) Stop Bit Selection Parity Selection Data Format Selection Communication time-out detection time Communication time-out operation selection Error 6 verification time. Do not use the magnetic contactor as the run/stop switch for the inverter. Plastic adaptor 3. LED Status REV: ON while the inverter is running reverse. 0-3: Deviation D Control Reverse Characteristic. 3-5 16 3.3 Wiring Guidelines Power Cables Supply power cable must be connected to TM1 terminal block, terminals L1(L) and L3(N) for single phase 200 V supply, L1(L), L2, L3(N) for three phase 200V supply and L1, L2, L3 for three phase 400 V supply. If an incorrectly rated three-phase squirrel cage induction motor has been used Note: When one inverter is driving several motors, the total current of all motors running simultaneously must be less than the rated current of the inverter, and each motor has to be equipped with a correctly rated thermal overload relay. 1.3 Before Operation Caution Make sure the model and inverter capacity are the same as that set in parameter Note : On power up the supply voltage set in parameter will flash on display for 2 seconds. Use a twisted pair shielded cable and connect the shield (screen) wire to the ground terminal at the inverter end only. Do not check parts and signals on circuit boards during the inverter operation. The motor will restart automatically after stop when auto-restart function is enabled. 3-8 19 3.3.4 Failure liability BONFIGLIOLI VECTRON bears no responsibility. For any failures or damaged caused to the inverter if the recommendations in this instruction manual have not been followed specifically points listed below. If a correctly rated Fuse or Circuit breaker has not been installed between the power source and the inverter. I5D 6: Jog Forward Command 7: Jog Reverse Command 8: Up Command 9: Down Command 10: Acc / Dec 2 11: Acc / Dec Disabled 12: Main/Alternative Run Command select 13: Main/Alternative Frequency Command select 14: Rapid Stop (Deceleration to stop) 17-15: Base Block 16: Disable PID Function 17: Reset 18: Auto Run Mode enable Reserved Up/Down frequency band 0.00 ~ Hz 0: When Up/Down is used, the preset frequency is held as the inverter stops, and the UP/Down function is disabled Up/Down Frequency modes 1: When Up/Down is used, the preset frequency is reset to 0 Hz as the inverter stops. Ensure that all ground terminals and connections are secure Do not make ground loops when several inverters share a common ground point. Lower and upper frequency limits 3 skip frequency settings. Do not make any connections when the inverter is powered on. 3) Unscrew the metal plate &Remove Assembly:- Disassembly:- 1. Current Detection Period External Brake Release level External Brake Engage Level Relay Output function type 0.1 ~ A 0.1 ~ s 0.00 ~ Hz 0.00 ~ Hz 0: A (Normally open) 1: B (Normally close) NO indicates normally open, NC indicates normally closed. I2D FWD Multifunction Input Term. Single unit installation Install the inverter vertically to obtain effective cooling. Do not share the ground of the inverter with other high current loads (Welding machine, high power motors). Drive Transmitt delay Time(ms) Factory Setting Unit Note 1 ~ *2*3 0: RTU code 1: ASCII code 0: : : : 1 Stop Bit 1: 2 Stop Bits 0: Without Parity 1: With Even Parity 2: With Odd Parity 0: 8-Bits Data 1: 7-Bits Data 0 ~ *2*3 2 bps *2*3 0 ~ *2*3 0 ~ *2*3 0 ~ s 0: Deceleration to stop (00-15: Deceleration time 1) 1: Coast to stop 2: Deceleration to stop (00-17: Deceleration time 2) 3: continue operating 1 ~ ~ 65 5 ms 4-20 51 Group10 PID function Setup No. Description PID target value selection (when 00-05/00-06 = 6, this function is enabled) PID feedback value selection 0: Potentiometer on Keypad 1: Analog Signal Input. Install the inverter on surfaces that provide good heat dissipation. The stop switch has to be activated to be effective. Residual Current Circuit Breaker (RCD) Current setting should be 200 ma or above and the operating time at 0.1 second or longer to prevent malfunctions. 4 E r 5 F S 6 G t 7 H u 8 J V 9 L Y Digital display indication formats Actual output frequency Set frequency Digits are lit Continually Preset digits flashing Selected digit flashing 4-2 33 LED display examples Display Description In stop mode shows the set frequency In run mode shows the actual output frequency Selected Parameter Parameter Value Output Voltage Output Current in Amps DC Bus voltage Temperature PID feedback value Error display Analogue Current / Voltage ACI / AVI. Metal plate adaptor 1. Verify the allowable speed ranges of the motor and the associated machinery. Frame1 & 2 Fan Fan 12cm CONTROL PANEL 5cm 5cm 12cm Front view Side view Side by side Installation CONTROL PANEL Provide the necessary physical space and cooling based on the ambient temperature and the heat loss in the panel 5cm 3-4 15 3.2.3 Derate curve Curves below show the applicable output current de-rate due to setting of carrier frequency and the ambient operating temperatures of 40 and 50 degree C. In these cases the EMC filter can be disabled. Metal plate adaptor 3. 1-1 7 1.2 During Power Up Danger When the momentary power loss is longer than 2 seconds, the inverter will not have sufficient stored power for its control circuit. 0-1 6 Chapter 1 Safety Precautions 1.1 Before Power Up Danger Make sure the main circuit connections are correct. Direct Run On Power Up Parameter in Complete Parameter Set (F 28 in Simplified Parameter Set). 1-3 9 Chapter 2 Part Number Definition 2.1 Model part number 2-1 10 2.2 Standard Product Specification Model Supply Frequency Model Filter Voltage (HP) (KW) (VAC) (Hz) NPN PNP Built-in None SZU230S-02 F SZU230S-03 F 1 ph. SZU230S-07 F 200~240V 50/60Hz SZU230S-11 F +10%/15% SZU230S-13 F Suitable for use with a mains circuit capable of supplying not more than 5,000 rms symmetrical amperes. 1 G. Screened (Shielded four core cable). Caution Do not perform a voltage test on parts inside the inverter. (Category C2) To satisfy the required EMC regulations for your specific application you may require an additional EMC filter. (9.8 m/s²) for 20 Hz and below. Back plate. Galvanized steel (Uncoated). 3-9 20 3.3.5 Considerations for peripheral equipment Power Circuit Breaker & RCD Magnetic contactor AC reactor for power quality improvement Input noise filter Inverter Ensure that the supply voltage is correct. If several inverters are placed in the same control panel, provide heat removal means to maintain the temperature below 50 C to avoid overhear or fire. Disconnection steps: 1. Extended pressing will Increment or Decrement the selected digit continuously. IP 23 3.4.2 General Specifications Frequency Run Main Controls Display Protective Functions Device Control Mode Setting resolution Setting Frequency limit Operation set SZU V/F Control + Auto-torque compensation function 0.01 ~ Hz Digital input : 0.01 Hz Analogue input : 0.06 Hz / 60 Hz Keypad : Set directly with keys or the VR (Potentiometer) on the keypad External Input Terminals: AVI (0/2 ~ 10 V), ACI (0/4 ~ 20mA) input Multifunction input up/down function (Group3) Setting frequency by Communication method. F: Standards for built-in filter Model : SZU230S: F Horse power (HP) Suitable motor capacity (KW) Rated output current (A) Rated capacity (KVA) Input voltage range (V) Single Phase : 200 ~ 240 V,50/60 Hz Allowable voltage fluctuation +10% - 15% Output voltage range (V) Three phase 0 ~ 240 V Input current (A) Allowable momentary power loss time (sec.) Enclosure *The input current is calculated value at full rated output current. Cable length should not exceed 50 meters. 1: Single cycle. (Continues to run from the unfinished step if restarted). If a magnetic contactor, a phase capacitor, burst absorber and LC or RC circuits have been connected between the inverter and the motor. FUN: ON when the parameters are displayed. 50Hz system. Ground the inverter and motor correctly. 6. Motor cable and signal lines of other control equipment should be at the least 30 cm apart. Be sure to follow the instructions for highest safety. 4-1 32 4.1.2 Digital display Description Alpha numerical display format Digit LED Letter LED Letter LED Symbol LED 0 A n 1 b o - 2 C P 3 d q. Switch between available displays < Left Shift: Used while changing the parameters or parameter values ENTER: Used to display the preset value of parameters and for saving the changed parameter values. A molded-case circuit breaker or fused disconnect must be installed between the AC source and the inverter Use a molded-case circuit breaker that conforms to the rated voltage and current of the inverter. (Category C2). The inverter can drive the motor from low speed to high speed. 0.6 G (5.88 m/s²) from 20 Hz to 50Hz Installation site Install in an environment that will not have an adverse effect on the operation of the unit and ensure that there is no exposure to areas such as that listed below:- Direct sunlight, Rain or moisture Oil mist and salt Dust, lint fibers, small metal filings and corrosive liquid and gas Electromagnetic interference from sources such as welding equipment Radioactive and flammable materials Excessive vibration from machines such as stamping, punching machines Add a vibration-proof pads if necessary Tightening torque for terminals Chart 3-1 TM1 TM2 Model Cable Size Tightening torque Cable Size Tightening torque AWG mm² kgf.cm lbf.in Nm AWG mm² kgf.cm lbf.in Nm Frame ~ ~ 6 Frame ~ ~ 12 3.2 Installation Installation methods Frame1: Mounting on a flat surface Screw: M4 Din rail type installation: Din rail kit includes a plastic and a metal adaptor plates. (ACI) * : Integer (xxx) PID Feedback Display 1: One decimal Place (xx.x) format 2: Two Decimal Places (x.xx) 0 ~ * : xxx- PID Feedback Display 1: xxxpb (pressure) Unit Setting 2: xxxd (flow) 0 ~ * Custom Units (Line Speed) Value 0 ~ /1800 RPM *1 0: Drive Output Frequency is Displayed Custom Units (Line Speed) Display Mode 1: Line Speed. Plastic adaptor 2. 1160: Reset to factory setting. Ensure that the inverter ground terminal is connected correctly. Ground connection should be as short as possible. Install core as close to the inverter as possible 3 Output reactors provide additional benefit of reducing du/dt for protection of motor windings Metal Cable clamp not more than 150mm from the inverter: I4D 3: Preset Speed 2 (3-03) 9-4: Preset Speed 4 (5-05) Multifunction Input Term. Warning This product is sold subject to EN and EN In a domestic environment this product may cause radio interference in which case the user may be required to apply corrective measures. V / F curve setting Carrier frequency Acceleration and deceleration control Multifunction input 19 functions (refer to description on group 3) Multifunction output 14 functions (refer to description on group 3) Multifunction analogue output Main features LED LED Status Indicator Overload Protection Over voltage Under voltage Momentary Power Loss Restart Stall Prevention Short-circuit output terminal Grounding Fault 5 functions (refer to description on group3) Overload Detection, 8 preset speeds, Auto-run, Acc/Dec Switch (2 Stages), Main/Alt run Command select, Main/Alt Frequency Command select, PID control, torque boost, V/F start Frequency, Fault reset Display: parameter, parameter value, frequency, line speed, DC voltage, output voltage, output current, PID feedback, input and output terminal status, heat sink temperature, Program Version, Fault Log. Conductor size for enclosure & Back plate must comply with the local electrical standards. Only permanently-wired input power connections are allowed. Phase-to-phase voltage drop [V] = 3 resistance of wire [Ω/km] length of line [m] current [A] 21 3.3.6 Ground connection Inverter Ground terminal must be connected to installation ground correctly and according to the required local wiring regulations. It is not permissible to open the equipment until 5 minutes after the power has been removed. 2: When Up/Down is used, the preset frequency is held as the inverter stops, and the UP/Down is available I1D ~ I5D scan confirmation 1 ~ 400 (Number of Scan cycles) 20 1ms xxx0: I1D NO xxx1: I1D NC I1D ~ I5D switch type select xxx0x: I2D NO xxx1x: I2D NC xx0xx: I3D NO xx1xx: I3D NC x0xxx: I4D NO x1xxx: I4D NC 0xxxx: I5D NO 1xxxx: I5D NC Reserved 0: Run 1: Fault 2: Setting Frequency Reached 3: Frequency Reached (3-13 ± 3-14) 4: Output Frequency Detection1 (> 3-13) 5: Output Frequency Detection2 (< 3-13) 6: Auto-Restart Output Relay (RY1) 7: Momentary AC Power Loss 8: Rapid Stop 9: Base Block 10: Motor Overload Protection (OL1) 11: Drive Overload Protection (OL2) 12: Reserved 13: Output Current Reached 14: Brake Control Reserved Unit Note 4-14 45 03-13 Output frequency detection level (Hz) 0.00 ~ Hz * Frequency Detection band 0.00 ~ Hz * Output Current Detection Level Output. In this case, care must be taken while working around the drive and associated equipment. Remove EMC line by pliers. Alternatively an armored or shielded type motor cable should be used. The Plastic enclosure and parts of the inverter such as the cover board will release harmful gases if burnt. Multi-core screened (3 core & protective earth) can be used for small power and short length. Caution The control terminals meet the standards EN (system voltage 300 V, overvoltage category 3). I2D 0 :Forward/Stop Command or Run /Stop 1 :Reverse/Stop Command Or REV/FWD 41 Group F . No. Description F 21 F 22 F 23 F 24 F 25 Output Relay (RY1) Reverse operation control Momentary Power Loss and Restart Number of Auto Restart Attempts Reset Drive to Factory Settings 0: Run 1: Fault 2: Setting Frequency Reached 3:Frequency Reached (3-13 ± 3-14) 4: Output Frequency Detection1 (> 3-13) 5: Output Frequency Detection2 (< 3-13) 6: Auto-Restart 7: Momentary Power Loss 8: Rapid Stop 9: Base Block 10: Motor Overload Protection (OL1) 11: Drive Overload Protection (OL2) 12: Reserved 13: Output Current Reached 14: Brake Control 0: Momentary Power Loss and Restart disable 1: Momentary power loss and restart enable Factory Setting Unit s 0 ~ : Reset to factory setting. Increment parameter number and preset values. If ferrite core is used loop motor wires, 3 times round the core. Keypad run, stop button External terminals: Multi- operation-mode 2 / 3 wire selection Jog operation Run signal by communication method. Flashes when stopped. Assembly Steps: 1) Attach the metal adaptor plate to the inverter base with the screws provided. Caution Work on the device/system by unqualified personnel or failure to comply with warnings can result in severe personal injury or serious damage to material. RESET: Use to Reset alarms or resettable faults. Note: Disconnecting the EMC filter link will disable the filter function 31 Chapter4 Software Index 4.1 Keypad Description Operator Panel Functions Type Item Function Main digital Frequency Display, Parameter, voltage, Current, displays Temperature, Fault messages. Indicates that the inverter or the mechanical system might be damaged if misused. Normally a magnetic contactor is not needed. Extended pressing of this key will save the altered value of the selected parameter. The operation of the stop switch is different than that of the emergency stop switch. 4: Single cycle. 5: When VDC > (360 V / 740 V), AVR function disable for stop and deceleration. Do not connect U, V and W terminals of the inverter to any AC input power supply. 2: Feedback D Control FWD Characteristic. (AVI) 2: Analog Signal Input. No. Description Preset Speed Control mode Selection 0: Common Accel/Decel. Variable Resistor (Potentiometer) FREQ SET Used to set the frequency Keys On Keypad RUN STOP/RESET (Dual function keys) MODE

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