

File Name: Dayton Motor Speed Control Manual.pdf Size: 4990 KB Type: PDF, ePub, eBook Category: Book Uploaded: 22 May 2019, 13:20 PM Rating: 4.6/5 from 553 votes.

Status: AVAILABLE

Last checked: 5 Minutes ago!

In order to read or download Dayton Motor Speed Control Manual ebook, you need to create a FREE account.



eBook includes PDF, ePub and Kindle version

<u>] Register a free 1 month Trial Account.</u>
🛛 Download as many books as you like (Personal use)
Cancel the membership at any time if not satisfied.
🛛 Join Over 80000 Happy Readers

Book Descriptions:

We have made it easy for you to find a PDF Ebooks without any digging. And by having access to our ebooks online or by storing it on your computer, you have convenient answers with Dayton Motor Speed Control Manual . To get started finding Dayton Motor Speed Control Manual , you are right to find our website which has a comprehensive collection of manuals listed.

Our library is the biggest of these that have literally hundreds of thousands of different products represented.

×

Book Descriptions:

Dayton Motor Speed Control Manual

Models 32J570, 32J571, 32J572 and 32J576 thru 32J579 A40359 However, the manufacturer retains the right to make changes in design, which may not be included herein. Description Memory Module Sinking Mode Using NPN Transistors with Internal Power Supply Connections and Jumper J Sinking Mode Using NPN Transistors with External Power Supply Connections and Jumper J Sourcing Mode Using PNP Transistors with Internal Power Supply Connections and Jumper J Sourcing Mode Using PNP Transistors with External Power Supply Connections and Jumper J ITEMS INCLUDED IN THIS PACKAGE Drive, Installation and Operation Manual, and Mounting Template. RECONDITIONING THE BUS CAPACITORS If this drive has been in storage for over one year it is necessary to recondition the power supply bus capacitors. To recondition the bus capacitors, apply the AC Line. with the drive in the Stop Mode, for a minimum of one hour. Not following this procedure will cause the bus capacitors to fail. 4 7 UL NOTICE 115 Volt Drives Suitable for use on a circuit capable of delivering not more than 5 ka RMS symmetrical Amperes. 115 Volts maximum. Use copper conductors rated 75 C. Suitable for operation in a maximum surrounding air temperature of 40 C. 230 Volt Drives Suitable for use on a circuit capable of delivering not more than 5 ka RMS symmetrical Amperes. 230 Volts maximum. Use copper conductors rated 75 C. Suitable for operation in a maximum surrounding air temperature of 40 C. 460 Volt Drives Suitable for use on a circuit capable of delivering not more than 5 ka RMS symmetrical amperes. 460 Volts maximum. Use copper conductors rated 75 C. Suitable for operation in a maximum surrounding air temperature of 40 C. 5 8 1 FAMILIARIZING YOURSELF WITH THE DRIVE To get acquainted with the operation and programming, the drive does not need to be installed into the application or have a motor connected. In addition, drives rated for 3phase AC Line input, can be operated with only 1phase.http://foundrygate.com/userfiles/hunter-146-sailboat-owners-manual.xml

dayton motor speed control manual, dayton motor speed control manual, dayton motor speed control manual downloads, dayton motor speed control manual pdf, dayton motor speed control manual download, dayton motor speed control manual free.

See Flow Chart Figure 41, on page MOTOR CURRENT SETTING The motor current is factory set to the maximum drive rating, as shown in Table 2, on page 13. In order for the Motor Overload Protection to operate properly, the drive must be reprogrammed to the actual Motor Nameplate Current see Function 0.01. Do not exceed the drives maximum current rating. See Flow Chart Figure 34, on page 42. SPEED will overheat if used beyond a limited speed range at full torque. Therefore, it is necessary to reduce motor load as speed is decreased. See Figure 2. Note Some fancooled motors can be used over a wider speed range. Consult the motor manufacturer for details. Inverter duty and most Totally Enclosed NonVentilated TENV motors can provide full rated torque over an extended speed range without overheating. It is recommended that the drive be used with Inverter Duty or TENV motors. WARNING! Some motors have low speed characteristics, which cause overheating and winding failure under light load or no load conditions. If the motor is operated in this manner for an extended period of time, it is recommended that the unloaded motor current be checked from 2 15 Hz RPM to ensure motor current does not exceed the nameplate rating. If the motor current exceeds the nameplate rating, the Boost value may have to be decreased see Function 3.14. Do not use motor if the motor current exceeds the nameplate rating. 3.2 ELECTRONIC MOTOR OVERLOAD PROTECTION The drive contains Modified I 2 t Overload Protection UL approved as an overload protector for motors. Part of this function consists of a

Current Limit CL circuit, which limits the drive current to a preset level of 160% of the Motor Nameplate Rated Current setting. The factory setting for motor nameplate current is the drive rated current, which must be set to the actual motor nameplate current see Important Programming Information Section 2.2, on page 7. See Table 2, on page 13. See Function 0.01, on page 52.<u>http://churchtextile.com/userfiles/hunter-18_5-owners-manual.xml</u>

Standard I 2 t is undesirable because it causes nuisance tripping. It allows a very high motor current to develop and will turn the drive off after a short period of time. The RMS Current Limit Circuit avoids this nuisance tripping while providing maximum motor protection. If the motor is overloaded to 120% of the Motor Nameplate Rated Current, the I 2 t Timer starts. If the motor continues to be overloaded at the 120% level, the timer will shut down the drive after 30 minutes. If the motor is overloaded to 160% of full load, the drive will trip in 6 seconds. 8 11 4 SAFETY WARNING Definition of Safety Warning Symbols Electrical Hazard Warning Symbol Failure to observe this warning could result in electrical shock or electrocution. Operational Hazard Warning Symbol Failure to observe this warning could result in serious injury or death. This product must be installed and serviced by a gualified technician, electrician, or electrical maintenance person familiar with its operation and the hazards involved. Do not use this drive in an explosionproof application. Eve protection must be worn and insulated adjustment tools must be used when working with drive under power. This product is constructed of materials plastics, metals, carbon, silicon, etc. which may be a potential hazard. Proper shielding, grounding, and filtering of this product can reduce the emission of radio frequency interference RFI which may adversely affect sensitive electronic equipment. However, these circuits are never to be used as safety disconnects since they are not failsafe. Use only the AC Line for this purpose. Be sure to read and follow all instructions carefully. Dayton Electric Mfg. Co. is committed to providing total customer satisfaction by providing quality products that are easy to install and operate. The drives are housed in IP20 enclosures. Flux Vector Control provides high torque, low noise, and excellent load regulation over a wide speed range.

Adjustable Linear Acceleration and Deceleration make the drive suitable for softstart applications. Due to its userfriendly design and simple to use and understand instruction manual, the drive is easy to install and operate. To facilitate programming, all similar functions are presented in common groups. The 4Digit Display provides readout of drive operating parameters and programming functions and displays Output Frequency, Motor RPM, Output Current, Output Voltage, Bus Voltage, Function Codes and Values, Fault Codes, and Custom Units. The 8 LEDs provide indication of the drive s status and operating mode. Main features include adjustable RMS Current Limit and I 2 t Motor Overload Protection. 1 Power Start delivers over 200% motor torque to ensure startup of high frictional loads and programmable Injection Braking provides rapid motor stop. Electronic Inrush Current Limit EICL eliminates harmful AC Line inrush current, allowing the drive to be AC Line switched. A MultiFunction Output Relay is provided, which can be used to turn on or off equipment or to signal a warning if the drive is put into various modes of operation. The drive also contains AC Line Phase Loss Protection. 2 The drive is suitable for machine or variable torque HVAC applications. The Potentiometer can be used to adjust motor speed in lieu of the builtin keypad. Notes 1. UL approved as an overload protector for motors. 2. Models 32J576, 32J577, 32J578, 32J579 contain AC line Phase Loss Protection. 10 13 5.1 STANDARD FEATURES Simplified Programming Programmable parameters are organized into easytounderstand intuitive groups. Memory Module Can store up to 4 programs for cloning and archiving. The drives onboard memory can also store up to 4 programs. Contactor Style FeedThroughs Provides top entry AC power connections and bottom entry motor connections. Space saving design easily replaces contactors and provides simplified panel wiring and installation.

https://www.ziveknihy.sk/audiokniha/fax-525dt-manual

Current and Torque Limit Current and torque limiting in motoring and braking quadrants. Automatic

extending of Accel and Decel eliminates tripping caused by rapid acceleration and deceleration of high inertial loads. Spin Start operation catches a spinning load and allows a smooth return to the set motor speed. 4Digit Display, 8 status LEDs, and EasytoUse MultiFunction Keypad Provides readout of drive operating parameters and programming functions, indication of drive status and operating modes. All control inputs are isolated from the AC Line. 7 Preset Frequencies. NPN or PNP Inputs can be used for sinking or sourcing. BuiltIn Potentiometer Adjusts set motor speed in lieu of the keypad. 5.2 PERFORMANCE FEATURES High Performance Sensorless Flux Vector Control with Static Auto Tuning Provides excellent speed regulation with high torque loads throughout the entire speed range. Auto energy savings at light loads. Smooth motor torque. Power Start Provides more than 200% starting torque, which ensures startup of high frictional loads. Speed Range Full torgue control over a 501 speed range. GFCI Operation Tripless operation with GFCIs. May cause increased audible motor noise. 5.3 PROTECTION FEATURES Motor Overload I 2 t with RMS Current Limit Provides motor overload protection which prevents motor burnout and eliminates nuisance trips. UL approved as an overload protector for motors. Electronic Inrush Current Limit EICL Eliminates harmful inrush AC Line current during startup and allows rapid start with AC Line. Short Circuit Shuts down the drive if a short circuit occurs at the motor phasetophase. AC Line Phase Loss Protection Shuts down the drive if one of the AC Line input phases is disconnected. Models 32J576, 32J577, 32J578, 32J579 only. Undervoltage and Overvoltage Shuts down the drive if the AC Line input voltage goes below or above the operating range. MOV Input Transient Suppression.

https://www.ortegazagra.com/images/a-class-service-manual.pdf

See Table 2, on page 13, for description of the Keypad, 4Digit Display, LEDs, and Potentiometer. The drive contains 8 LEDs to provide indication of the drive s status and operating mode REM, LCL, FWD, REV, STOP, OL, PGM, and Hz. The Keypad is used for Local Operation of the drive. For Remote Operation see Function Group 2, on page 54. FIGURE 3 DRIVE LAYOUT SHOWN WITH FRONT COVER REMOVED SEE DESCRIPTIONS, ON PAGE 15 RUN STOP FWD REV MEMORY MODULE 14 17 TABLE 3 DESCRIPTIONS OF 4DIGIT DISPLAY, LEDS, KEYS, AND POTENTIOMETER No. Feature Description 1 4Digit Display Provides readout of drive status, operating parameters, and faults. 2 REM LED Indicates that the drive is set for Remote Operation. 3 LCL LED Indicates that the drive is set for Local Keypad Operation. 4 FWD LED Indicates that the drive is set for Forward Direction. 5 REV LED Indicates that the drive is set for Reverse Direction. 6 STOP LED Indicates that the drive is in Stop Mode. 7 OL LED Indicates that the drive is in Overload. 8 PGM LED Indicates that the drive is in Program Mode RUN STOP Hz LED Indicates that the display is set to show Drive Output Frequency in Hz. Up Key Increases Output Frequency, Set Frequency, Function Number Value, and Code setting. Down Key Decreases Output Frequency, Set Frequency, Function Number Value, and Code setting. When in Local Keypad Operation, the LCL LED will remain illuminated. When in Remote Signal Operation, the REM LED will flash 1 second on and 1 second off. If pressed while Set Frequency is displayed, the previously entered Function Number will be shown. If pressed while Function Number is displayed, the Set Frequency will be shown. Leave enough room above and below the drive to allow for AC Line, motor connections, and any other connections that are required. Care should be taken to avoid extreme hazardous locations where physical damage can occur.

http://parsbaft.com/images/a-class-workshop-manual-pdf.pdf

When mounting the drive in an enclosure, the enclosure should be large enough to allow proper heat dissipation so that the ambient temperature does not exceed 40 C 104 F at full rating. See Figure 4, below, and Figure 5, on page 17.Note Wire the control in accordance with the National Electrical Code requirements and other local codes that may apply to the application. WARNING! HIGH VOLTAGE! Read Safety Warnings, on page 9, before using the drive. Disconnect the main power

before making connections to the drive. To avoid electric shock, be sure to properly ground the drive. Application Notes 1. To avoid erratic operation, do not bundle AC Line input and motor wires with each other. Also, do not bundle motor wires from multiple drives in the same conduit. The shield should be earth grounded on the drive side only. 2. Be sure to properly fuse each AC Line conductor that is not at ground potential. Do not fuse neutral or grounded conductors. A separate AC Line switch or contactor must be used as a disconnect so that each ungrounded conductor is opened. For fuse or circuit breaker selection, see Table 2, on page 13. Note The rated AC Line voltage of the drive must match the actual AC Line input voltage. See Electrical Ratings, Table 2, on page 13. See Figure 7. Note 230 Volts AC will be applied to the motor with 115 Volt AC Line input. See Figure 9. FIGURE 9 MODELS 32J577, 32J578, 32J579 AC LINE AND GROUND CONNECTIONS 8.2 AC LINE INPUT FUSING The drive does not contain AC Line fuses. For the recommended fuse or circuit breaker rating, see Table 2, on page 13. Do not fuse motor leads. Most electrical codes require that each ungrounded conductor contain circuit protection. Do not fuse neutral or ground connections. See Figure 10, on page 22. Motor cable length should not exceed 100 feet 30 m special reactors may be required contact Grainger Support Desk. Be sure that the Motor Current Function 0.01 is programmed to the actual motor nameplate current rating.

Do not exceed the drives maximum current rating. See Table 5. Also see Table 7, on page 23. To remove the cover, press on the finger grips on both side corners of the cover until the retaining clips disengage from the base and lift it up. After mounting the drive, setting the jumpers, and all connections are complete, replace the cover by inserting the tab into the slot on the drive and gently pressing down on the cover until it snaps into place. IMPORTANT For remote operation of the drive, both a Start Command and a Frequency Command must be given. Also see Function Group 7, on page 25 TABLE 6 INPUT AND OUTPUT CONNECTIONS Terminal Blocks No. Also, some applications may require a jumper, which will provide automatic starting of the drive when either a forward or reverse contact is closed. See Figure 11, below, for the connections and drive programming. Application Note A frequency command must also be given for the drive to run. WARNING! STOP is not to be used as an Emergency Stop or safety disconnect since it is not failsafe. Use only the AC line for this purpose. See Figure 11, for connections and drive programming. WARNING! Using a jumper to automatically start or restart the drive will cause the motor to run at the Set Frequency of the drive when the AC Line is applied. See Figure 12, for connections and drive programming. See Figure 13, for connections and drive programming. Close the Forward Contact to run the drive in the forward direction. Close the Reverse Contact to run the drive in the reverse direction. Open the contact to stop the drive. See Figure 14, for connections and drive programming. Once these codes are assigned to a MultiFunction Input Terminal, a contact must be used to select forward or reverse direction. See Section, below. 2. Remote Main Speed Potentiometer. See Section, on page Preset Frequency using the MultiFunction Input Terminals.

See Section, on page ANALOG INPUT An analog voltage unidirectional or bidirectional, current, or PWM signal input can be used to control motor speed in lieu of the Keypad. The drive output will linearly follow the signal input. The inputs can be programmed for the desired gain, slope, offset, and response time. See Figure 17, on page 28, for the location of the Signal Input Type Selection Jumper J2. Operation with a Positive Slope Signal When the signal input is increased, the drive output frequency will increase. When the signal input is decreased, the drive output frequency will decrease. See Figure 15. Operation with a Negative Slope Signal When the signal input is increased, the drive output frequency will decrease. When the signal input is decreased, the drive output frequency will increase. When the signal input is decreased, the drive output frequency will decrease. When the signal input is decreased, the drive output frequency will increase. See Figure 18, for connections, Jumper J2 settings, and drive programming. See Figure 20, on page 30, for connections, Jumper J2 settings, and drive programming. Rotate the Main Speed Potentiometer clockwise to increase motor speed. Rotate the Main speed Potentiometer counterclockwise to decrease motor speed. See Figure 21, for connections, Jumper J2 settings, and

drive programming. At 50% rotation, the Main Speed Potentiometer is set for zero speed. Rotating the Main Speed Potentiometer clockwise will increase motor frequency in the forward direction. Rotating the Main Speed Potentiometer counterclockwise will increase motor frequency in the reverse direction. See Figure 22, for connections, Jumper J2 settings, and drive programming. Rotate the Main Speed Potentiometer clockwise to increase motor speed and rotate the Main Speed Potentiometer clockwise to decrease motor speed. Open the contact to put the drive in the Stop Mode. See Figure 23, on page 32, for connections and drive programming.

FreeRunning Operation When the Up Contact is closed, the drive output frequency will increase for the duration of the contact closure. When the Up Contact is opened, the drive output frequency will stop increasing. When the Down Contact is closed, the drive output frequency will decrease for the duration of the contact closure. See Figure 24, for connections and drive programming. The manual covers software version M108314 and above. Refer to parameter 63 for the software version of the drive you are working with. If you are SAFETY INSTRUCTIONS Always follow safety instructions to prevent accidents and potential hazards from occurring. In this It will also show the user how to Variable Speed AC Motor Drives. Micro and PowerWash Series INSTR 030 REL. 090930. 2009 MTE Corporation INSTR 030 REL. 090930 2009 MTE Corporation IMPORTANT USER INFORMATION NOTICE MTE Series RLW reactors are components designed to improve the reliability HVAC Pocket Programming Guide Please visit our website at www.amc.com or contact us for replacement model information and retrofit Table of Contents This instruction March 2008 DC Servo drive. Contents. 1. Safety, policy and warranty. 1.1. Safety notes. 1.2. Policy. 1.3. Warranty. Technical content Programs and readsout in plain English. Intelligent Power ModuleIGBT s with a 16 bit Intel microprocessor. Throughout this manual, the following Read carefully before attempting to assemble, Finish the rest of the questions for discussion in class on Wednesday. Question 1 Ouestions AC s are becoming SAFETY INSTRUCTIONS Always follow safety instructions to prevent accidents and potential hazards from occurring. In this manual, safety messages are SAFETY INSTRUCTIONS Always follow safety instructions to prevent accidents and potential hazards from occurring.

In this manual, safety messages are All standard and optional features shall be included within the VFD panel Safety instructions Incorrect usage could lead to an electrical shock, damage to the unit or a fire hazard. User s manual ACS355 drives Application Handbook For information on the family of BT300 HVAC TIME MARK CORPORATION 11440 EAST PINE STREET TULSA, OK 74116 USA tel 918 4381220 fax 918 4377584 www.timemark.com The motor is driven by a circuit mounted near the motor and In This Appendix. Quick Start for SureServo Drives.A 2. Tuning Quick Start for SureServo Drives. Sag Immunity, transient suppression and noise tolerant, the SDN series ensures compatibility in demanding applications. We believe the Phoenix AC Drive Series is the most VII Safety Precautions and Instructions for Use. VIII EMC Compatibility. X Line Filters. SAFETY INSTRUCTIONS Always follow safety instructions to prevent accidents and potential hazards from occurring. In this manual, safety messages are Powered by Eaton Technology. User Manual All Rights Reserved. 5 Safety instructions SAFETY INSTRUCTIONS To prevent injury and property damage, follow these instructions during the installation and operation of the inverter. Incorrect Multi Split Units Our competition DORMA MODEL PS406BB POWER SUPPLY INSTALLATION INSTRUCTIONS Up to 1.95 Amps Load Capacity Class 2 Rated Outputs Overload, Over Voltage, and Short These products conform Protection type Total Power limit, Latchstyle Recovery after reset AC power ON or inhibit The board is factory programmed To use this website, you must agree to our Privacy Policy, including cookie policy. Available now in limited quantities, this product is sure to fit the needs of MRO and OEM applications where accuracy and repeatability are a must. Whether DC SCR, AC, low voltage PWM, brushless DC, digital speed controls, digital speed pots or speed sensors, Dart products are second to none.

Login to post Its a brand new motor i put on an old horse walker, currently wired for 110 on low voltage. Any thing but same voltage will burn out the motor. Can you point me in the right direction. Grainger said I cant buy just one. I only have one motor. Thanks in. A dimmer switch changes voltage lowering voltage it dims your lights lowering the voltage to a motor will raise the current amps create heat and kill the motor and probable the switch. Good news is you can purchase fairly cheap VF variable frequency drives that will do what ever you want word of caution running a motor at 30Hz or less half speed the motor will probably require an additonal cooling fan since its internal fan will be turning to slow to be effective good luckYou can get these from grainger.com for the dayton line of fans. Hope this helpsIt does a scheduled sprinkling and an additional watering not scheduled. Why I have unplugged it and rescheduled, but it still does it. It currently is in default mode at 1 second. Answer questions, earn points and help others. For a better experience, please enable JavaScript in your browser before proceeding. It may not display this or other websites correctly. You should upgrade or use an alternative browser. Its almost like its not there. The voltage is at 106 vdc no matter if the pot is fully opened or closed. The pot is good. Has anybody had any experience working on these and know what it may be. Thanks. Thanks for the replies! If it has the option for tach feedback and you dont need it, it should be jumpered out. Otherwise floating voltages might appear to the drive as a tach signal, and the drive is trying to stop a freewheeling motor. Are you sure one pair was not straight rectifiers Max. If it has the option for tach feedback and you dont need it, it should be jumpered out. Otherwise floating voltages might appear to the drive as a tach signal, and the drive is trying to stop a freewheeling motor.

Are you sure one pair was not straight rectifiers Max.Where is the firing circuit. Please try again.Please try again.Please try again later.In order to navigate out of this carousel please use your heading shortcut key to navigate to the next or previous heading. Register a free business account To calculate the overall star rating and percentage breakdown by star, we don't use a simple average. Instead, our system considers things like how recent a review is and if the reviewer bought the item on Amazon. It also analyzes reviews to verify trustworthiness.

http://dev.pb-adcon.de/node/24119