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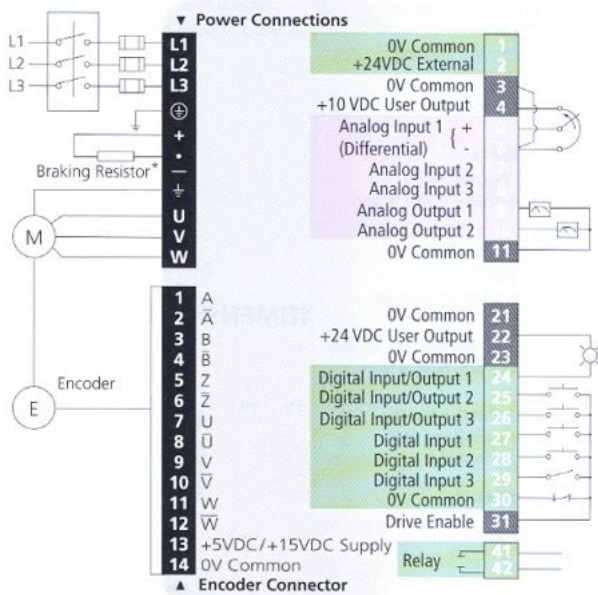


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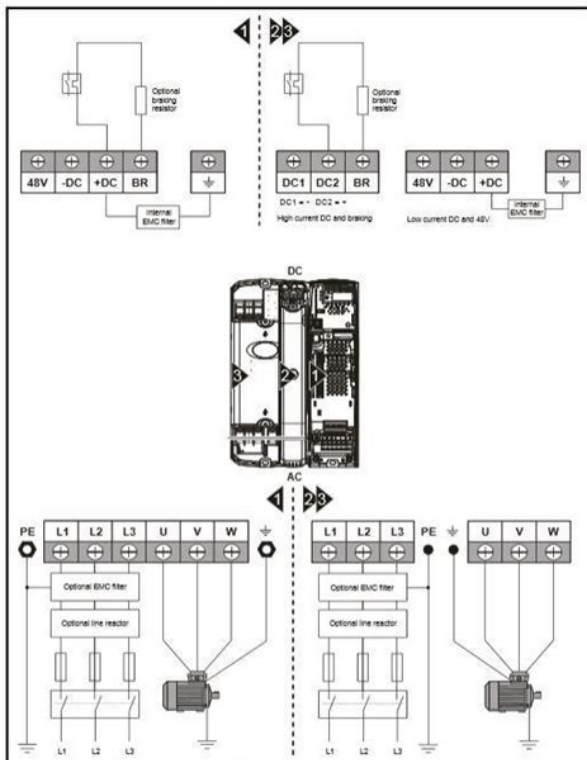
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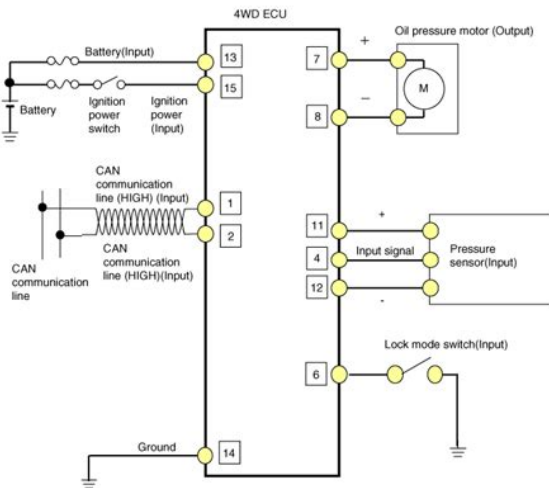


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exactly as demanded. Motor flux is accurately controlled at all times to provide full torque all the way down to zero speed. Typically 175% torque at 0rpm. The Unidrive directly controls the speed of the motor using the feedback device to ensure the rotor speed is exactly as demanded.

<http://entrevoies.com/images/81-honda-xl500s-manual.pdf>



Flux control is not required because the motor is self excited by the permanent magnets which form part of the rotor. Absolute position information is required from the feedback device to ensure the output voltage is accurately matched to the back EMF of the motor. Typically 175% torque at 0rpm. Regen operation allows bidirectional power flow to and from the AC supply. This provides far greater efficiency levels in applications which would otherwise dissipate large amounts of energy in the form of heat in a braking resistor. The harmonic content of the input current is negligible due to the sinusoidal nature of the waveform when compared to a conventional bridge rectifier or thyristor front end. Request a Quote! 800 6918511. We are experts in Control Techniques Drive repair. We can sell, service, and repair the entire Control Techniques drive product line. We have extensive design and startup experience with all Control Techniques products. Below is a partial list of the Control Techniques units we have worked with. At Specialized Electronics we will evaluate your Control Techniques AC drive at no cost and then send you a firm quote price for repair. At Specialized Electronic Services we have been repairing Control Techniques industrial electronic equipment since 1994. We can do start ups in the field for you on any AC drive you buy from us. We also do retrofits of your old AC drive to a modern one. Purchase your control techniques, emerson control techniques, control techniques unidrive, control techniques servo motor today. An open and editable file, the Unidrive M AOI integrates easily into the Logix architecture allowing for further future flexibility. Simply download and import the Unidrive M AMC AOI into the Logix software to take full advantage of the AMC functionality. The material on this site may not be reproduced, distributed, transmitted, cached or otherwise used, except with the prior written permission of WTWH Media.

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Page Count 100 Constant and variable torque. Variable Speed Drives Persons supervising and performing the electrical. Option Unit must be suitably qualified and competent in The voltages present in the Drive and external Option. Units are capable of inflicting a severe electric shock and Drive and external Option Unit. Mains supplies should be The installation instructions should be adhered to. Any Kingdom and applicable legislation and regulations and The Drive software may incorporate an optional Autostart facility. In order to prevent the risk of injury to The Stop and Start inputs of the Drive should not be relied If a safety hazard General Information. The manufacturer accepts no liability for any The contents of this User Guide are believed to be correct In the interests of a commitment All rights reserved. No part of this User Guide may be Copyright. Control Techniques Drives Ltd. Part Number. Issue Code July 1995. Machine Control V02.00.00. User Interface V02.xx.xx Menu 4 — Current limits Communications messages Miscellaneous parameters Programmable thresholds Encoder feedback Controlling the Drive. Operation of the Drive is controlled by programming These parameters A diagram of the basic How best to use this. User Guide. This User Guide is arranged logically reading from To make subsequent adjustments to the parameters, The Table of Contents is organised in a simple way to The Drive has two display panels and an eight key Change parameter values. Stop and start the Drive. Display the operating status of the Drive Final Keypad. Frequency Ramps Postramp Postslip Motor Machine Current Keypad select. Stop. Run. DC bus. Jog Current Current Overload Motor voltage 0V to 10V. Basic structure of the control system. CDE, CDLE Drive Industrial and HVAC All models can be programmed by the user for Ingress protection Nine models in two model sizes cover the power Model. AC supply Normal Model. Power ratings European models. IP00 in accordance with the IEC529. North American models North American models.

Eighteen models in two model sizes and two AC American applications as follows. Model. AC supply Model. Power ratings Normal Low Normal Note. When a model is used for HVAC applications, its power CDE, CDLE Drive. Maximum frequency 1kHz. Maximum output voltage. Equal to the AC supply voltage Derating. Derate full load current by 1% for each additional Drive 20 per hour. Motor Refer to the motor manufacturer Case size 1 — 3kHz or 6kHz. Case size 2 — 3kHz RS485 full duplex RS422 can also be used. Write to the Drive Read from the Drive Electromagnetic Weights. The maximum weight for each case size is as follows. European case size 1 22.3kg 49lb. European case

size 2 56kg 123lb. USA NEMA size 1 36kg 81lb. USA NEMA size 2 90kg 201lb Use a circuit breaker having characteristic type K. Fuses must satisfy the following. IEC 269 Parts 1 and 2, type gL characteristic. BS 88 Parts 1 and 2, HRC fuses. An MCB or MCCB may be used instead of fuses if it is a fuse rating for European models. Conducted emissions Refer to the Immunity. In accordance with IEC 801 without significant Part 4 Transient Burst Level 4 Industrial Model. Fuse rating. Industrial Ratings and values quoted are design minima. Value. Current ratings. Weight Application table. Application. Industrial European North. American American. Low voltage Note. The displacement factor fundamental power factor CDE 11kW to 90kW — European models. Power ratings are for typical 3 phase 4 pole Nominal supply voltage 400V RMS. IND Industrial application capable of 150% HVAC Fan and pump applications capable of Model. Output ratings Motor Current Power ratings are for standard NEMA motors. Nominal voltage 440V to 480V RMS. Nominal voltage 200V to 240V RMS. Output ratings Motor Note. Figures quoted are at 100% output power. CDE 11kW to 90kW — European models. Model Model. Total power loss Model Model. Total power loss CDE, CDLE Drive Dimensions of the Drive. Dimension. Mounting hole dimensions. Case size All terminals are compression type. Cable entry is at the top of the case.

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CDE, CDLE Drive. NEMA 1 case — Case size 1. NEMA 1 case — Case size 2 Hazardous areas. The application of variable speed drives may Group and Temperature Class of squirrel cage This heater must be switched off when the Drive The Control Keypad is a plugin unit which can be Holes are required in the panel for the fixing studs and Mounting location Observe the requirements for ambient The Drive has overtemperature protection which trips the Drive. If the Drive is to be installed directly beneath Drive, ensure the Drive does not cause the Drive can be surface mounted or through panel CDE, CDLE Drive. Dim. Keypad A choke inductor is required for the DC bus. For Drives in an IP00 case, the DC bus choke is installed For Drives in a NEMA 1 case, Choke Dimensions of the DC bus choke Weight Terminal CDE, CDLE Drive Installing in a To maintain sufficient cooling of the Drive when it is To calculate the minimum acceptable size of Calculate the minimum required surface area  $A_e$  for Enclosure having top, sides and Example. To calculate the size of an enclosure for one CDE 1100. Drive. The following conditions are assumed. The installation is to conform to IP54, requiring Only the top, front and two sides of the Drive PWM frequency 6kHz. Insert the following values. Estimate two of the enclosure dimensions — the Calculate the  $A_e$  2HDCDE, CDLE Drive If a high ingress factor is not required, a ventilated This will be smaller than a To calculate the minimum required volume of Refer to the manufacturer's instructions for mounting Mount the resistor as close as possible to the Drive, For Drives in an IP00 case, the DC braking resistor  $T_i$  Tamb Motor cooling. When a motor is driven at low speed, its internal If necessary, Example. To calculate the ventilation requirement for one. CDE 1100 Drive. Then. Grounding. Ground connections must be made in accordance Warning. Electric shock risk. The voltages present in the following locations can Supply cables. Output cables. Terminals. DC bus choke. Braking circuit.

Certain parts of the Drive. Use the shortest possible wiring to connect the Drive The impedance of the ground circuit must conform to Inspect the grounding circuit at appropriate intervals. If the Drive has been energized, the AC supply must be Connect the screen to ground at the power Ground connections on the power input and power Drive, enabling the following connections to be made Motor frame ground to system ground. Motor frame ground to the machine ground. Cables. For the following connections, use 3 core and 4 core AC supply to the Drive. Drive to motor. DC bus choke to Drive. Drive to external braking resistor if used. Cable sizes must be selected for 100% of the RMS The Drives are suitable for grounded delta installation The size of external grounding terminals should be This table is only a guide. Refer to local wiring Full Load Current. Cable size Power connections. Make the following connections using the size of When an external braking



resistor Thermal trip Fuses and AC power to the Drive. Drive to the motor. DC bus choke to the Drive. External braking resistor to the Drive. Optional. RFI filter. The AC power should be applied through an isolator. Unusually long cable runs between the Drive and the As a result, an overcurrent fault would be indicated OIAC. In this case, In difficult cases, Drive Power connections. External braking resistor. When an external braking resistor is used, the isolator The Drive must be equipped with an optional IN42. Braking Card. Refer to the IN42 Braking Card User Guide. When the Control Keypad is mounted remotely from Keypad to the Drive. A 9pin Dtype connector is Control Keypad as possible. The connecting cable should have a maximum length Note Terminal Relay ratings 250V 7A AC. Input options Resolution 12bit plus sign, self calibrating Input options Resolution 10bit plus sign Input options Programmable relays. Open circuit voltage for use with Resolution 10bit plus sign. Speed reference. Motor thermal CDE, CDLE Drive. Connections to the programmable Terminal.

Function Terminal Programmable digital inputs. Function External load 0 to 500 Resolution 10bit plus sign. Programmable analog outputs. Connections to the programmable Connections to the programmable Terminal. Function Sink 100mA max at 0V. Internal flywheel diodes for driving external relays. Programmable digital outputs CDE, CDLE Drive Terminal. Function Terminal. Function Frequency input noninverting. Quadrature input channel A noninverting Frequency input inverting. Quadrature input channel A inverting Quadrature input channel B noninverting. Programmable Frequency output inverting. Quadrature input channel B inverting. Connections for 4wire mode Frequency input noninverting. Frequency input inverting. Frequency output noninverting. Frequency output inverting Connections for 2wire mode. Quad input ch A noninverting. Quad input ch A inverting. Serial communications connections Quad input ch B inverting. See parameter p11.26 for selecting 2 wire operation. Connections for frequency input Approximate locations of the jumpers on the IN82 board. Prior to operation of the Drive it may be necessary to Default Negative logic. Link. Positive. Negative. Logic 1 switched Internal pull down. Internal pull up LK4 selects current speed reference input signal. LK5 selects voltage speed reference input signal. Default LK5 — Voltage input LK6 selects current speed reference input signal. LK7 selects voltage speed reference input signal. Default LK6 — Current input. CDE, CDLE Drive LK8 selects motor thermistor input signal. LK9 selects current speed reference input signal. LK10 selects voltage speed reference input signal. Default LK10 — Voltage speed reference input Selects voltage or current reference output. Default Voltage output Selects voltage or current reference output. Default Voltage output Connected Single ended input. Disconnected Differential inputs The display has three modes of operation, as follows. The Control Keypad has a display area and a keypad. The display is used for the following.

Reading values of parameters. Reading character strings held in certain Reading status messages. Reading trip codes. The keypad is used for the following. Programming the parameters. Controlling the motor. Status mode. This is the normal working mode of operation. Parameter mode. Allows a menu and parameter to be selected Edit mode. Allows the selected parameter to be edited These modes are selected using the keypad. Control Keypad Mode Status. Status of the Drive. Value or character string of Parameter. Selected menu.

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