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Please notice your Alarm, Diag report or Error report that you had when you send back the defective unit to help our Technical dpt. Exchange service products is put through a thorough cleaning process, full test and final quality inspection by our specialist technicians prior to their sale on our estore. Deposit which will be refunded immediately upon receipt of your defective part and validation of our technical service. YASKAWA JANCD CNC Controller boards Servo Drives YASKAWA CACR Servo drives YASKAWA CIMR Servo drives Servo Motors YASKAWA Servo Motors CPU Module belonging to the SIEMENS SIMATIC S5 PLC System. This SIEMENS CPU928B 6ES59283UB12 SIMATIC S5 PLC module is used to coordinate information between the SIMATIC S5 PLC and the machinetools. This SIEMENS 6ES59283UB12 coprocessor module is ready to replace your defective or faulty CPU 6ES59283UB12 module installed on your CNC machinetools. This SIEMENS 6ES59283UB12 PLC Module is sold with a functional warranty. The processor CPU Central Processing Unit, is the computer component that runs the machine instructions for computer programs. A processor built in a single integrated circuit is a microprocessor. 6ES59283UB12 CPU SIEMENS SIMATIC S5. FANUC Monitors A61L00010074, A61L00010092, A61L00010093, A61L00010094. FANUC FUJI ELECTRIC transistors A50L A50L, EVL, EVK, IGBT, 6DI A50L00010096, A50L00010125, A50L00010175 Follow us, become a fan, share it, tweet us, and retweet us to all your coworkers. Well see you on Twitter, Facebook or Instagram. We have developed our own global sourcing relationships with End Users, independent distributors, auction houses, asset recovery companies, independent contractors and procure our equipment through such sources. PLC Hardware sells hardware products only and does not resell software licenses. Some hardware products may contain software and may not be legally operated without first purchasing a proper software license from the manufacturer of such products.

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Example of Cabinet Assembly for EMC. Example of Rack and Wall Mounting for EMC.....Special Measures for InterferenceFree Operation. Checklist for the Electromagnetically Compatible InstallationConnecting the Programmable Controller and Load Power. Connecting NonFloating or Floating Modules.....Interface Circuits. InterferenceFree. Installation of Centralized and DistributedInstallation of Distributed Interface Circuits.....Removal of Power Dissipation from Cabinets. Examples for Determining the Type of Cabinet. Determining the Power Dissipation of Modules.....Technical Description of the Expansion Units. Technical Specifications of the Expansion Units.....Setting and Connecting the Power Supply Unit. Description of Internal Sequences in the Power Supply Unit. Technical Specifications of the Power Supply Units.....Setting and Connecting the Fan Submodule.....RAM Submodules with Battery Backup.....Installing and Removing the Interface Submodules. Technical Specifications of the Interface Submodules.....Special Features of the 432 Digital Input Module.....Connection of Outputs in Parallel and Switching OnSpecial Features of the 460 Analog Input Module. Marking of Modules and Front Connectors. Connecting a Compensating Box for Thermal E.M.F. Measurement. Connecting Resistance Thermometers in the Standard Pt 100 Range. Connecting Resistance Thermometers in the Extended Pt 100 Range..Special Features of the 463 Analog Input Module. Marking of Modules and Front Connectors.....Marking of Modules and Front Connectors. Connecting Resistance Thermometers to the 465 Analog Input Module. Broken Wire Signal for Resistance Thermometers.....Special Features of the 466 Analog Input Module. Connecting Sensors to the 466 Analog Input Module.....

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Special Features of the 470 Analog Output Module. Connecting Loads to the 470 Analog Output Module.....Setting the Address Switches S1, S2, S3, S4..... 1012. System ManualSystem ManualSystem ManualNotes on Using this ManualThe controller can be used in single and inIn multiprocessor operation,CPUs multicomputing. CPUs Available. The following are available as CPUsWhen you use a CPU 948 you have an S5155U PLC.Slots. System ManualYou can combine the CPUs arbitrarily at the CPU slots in the centralHow the Manual is. Organized. Given as a guide in the following are pointers on how this manual isAt the start of this manual you will find

the “SafetyRelated Guidelines”Repair Guidelines in Section 4.1.4. Chapter 3 contains the Installation Guidelines with information on. Which of the remaining chapters of this manual you may require whenFor a basic configuration in singleprocessor operation without expansionChapter 4 describes the central controller CC in Section 4.1. DescribedSection 4.3 describes the power supply units. You will find a separateBoth sections describe the installation and startup as well as the necessaryChapter 5 contains the instructions for the individual CPUs. DescribedCPUs. The various methods of operating the CPUs are also described, asDescribed here are the installation, wiring and operation of theseTo configure your PLC with expansion units EUs you will need theChapter 2 shows how you can configure a PLC with expansion units in aDescribed in Chapter 4, Section 4.2, are the EU 183U, EU 184U, EUChapter 7 describes the interface modules IMs which serve for dataTo operate two or more CPUs in multiprocessor mode in your PLC, you willChapter 6 describes multiprocessor operation. This chapter contains allIn Chapter 11 are the connector assignments of the individual modules andThe Appendix contains the ordering data for the products described in thisSystem ManualNotes on the CE Symbol. EC Directive on.

The following applies to the SIMATIC products described in this manual. Products which carry the CE symbol fulfil the requirements for the EC. The EC declarations of conformity and the documentation relating to this areArticle 10 2, from. Automation Group. Postfach 1963. D92209 Amberg. Products which do not carry the CE symbol meet the requirements andSpecifications” sections. Fields of. Application. For SIMATIC S5, the following fields of application apply according to this. CE symbol. Field of Application. Requirement for. Emitted Interference. IndustryInstallation. Guidelines. The installation guidelines and safetyrelated guidelines given in this manualMoreover, the following rules must be observed when using certain modules. Installing the. DevicesWorking on. Cabinets. To protect the modules from static discharge, the user must discharge hisNotes on. Individual Modules. Additional measures are required when using the following modules. A shielded signal cable is required for the following modules. Order Number. ModuleOrder Number. ModuleA filter SIFI C, B841213CB30 or equivalent is required in the 24 V DC load voltage supplyOrder Number. ModuleSystem ManualNotes for Machine Manufacturers. Introduction. The SIMATIC programmable controller is not a machine in the sense of the. EC Directive on machines. Therefore, there is no declaration of conformity. EC Directive. Machines. Here, a machine is understood to be the entire sum of devices or partsSIMATIC is part of the electrical equipment for a machine and mustElectrical. Equipment for. Machines to ENThe EN 602041 standard machine safety, general requirements for theThe following table should help you with the declaration of conformity andGeneral requirements. Remarks. Requirements are fulfilled if the machines areSee also the explanations on the previousPara. 11.2. Requirements are fulfilled. Para. 12.3. Programmable equipment. Requirements are fulfilled if the machines arePara. 20.4. Voltage tests.

Requirements are fulfilled.Safety Notes. Risks Involved in the Use of SoCalled SIMATICCompatible Modules of. NonSiemens ManufactureFor this reason, we feel obliged to warn our customers who use SIMATICOur products undergo a strict quality assurance procedure. We have noSIMATICcompatible modules have any quality assurance at all or one that isThese socalled SIMATICcompatible modules areBecause of the variety ofSIMATICcompatible modules. It is beyond the manufacturer’s capabilitiesIf the use of socalled SIMATICcompatibleIn the event of product liability damages due to the use of socalled. SIMATICcompatible modules, Siemens are not liable since we took timelySIMATICcompatible modules.”. System ManualThis chapter contains an overview of the methods of configuring anChapter. Overview. System ManualContents. PageYou need EUsVarious interface modules IMs are available for communication betweenIt is therefore possible to install an. EU or EUs in the immediate vicinity of the CC centralized configuration orA combination of both types ofThis is clarified on the following pages.You can install a PLC in centralized or distributed configuration according toWith the centralized configuration, you can install the CC and EUs in theData transmission is parallel. Shown inFigure 21. System ManualWith

the distributed configuration, a distinction is made between parallel andThe main features of these types of communicationS SerialInstalling a PLC with Centralized Configuration. The following table shows which interface modules and connecting cablesInterface ModuleExpansion Unit. Interface ModuleConnecting Cable. Max. DistanceTo install a PLC in a centralized configuration, you must observe theEU see the Configuring Aids in the catalog and Chapter 4. S The line length between the IM in the CC and the last IM in the EU mustTo install a PLC in a distributed configuration, you have a choice of. The following table showsInterface ModuleExpansion Unit. Interface Module inConnecting Cable.

Max. Permiss. Line LengthCable connectionFiber opticThe last IM 310 or IM 314 always requires a 6ES5 7601AA11 terminator. The ER 7012 and ER 7013 always additionally require an IM 306 forTo install a PLC in a distributed configuration, you must observe theNoteSystem ManualGiven in the following are some examples of centralized and distributedThe Installation Guidelines provide you with information for theThis chapter describes the following. Paths which serve for interference pickup in programmable controllers,Interferencefree installation of the programmable controllers. Cable routing, the connecting of cable shields and equipotential bondingThe power supplies for control and load circuits, and the differentShielding and grounding for the connection of centralized and distributedThe selection and design of cabinets. Chapter. System ManualDescription. PageDistributed Interface CircuitsWhat Does EMC. Mean Electromagnetic compatibility EMC is understood to mean the capability ofAll SIMATIC S5 products have been developed for applications in harshDescribed in the following chapter areElectromagnetic interference can be picked up over different paths by theFields. SINEC Bus System. Programmable. Controller. Power Supply. Protective Conductor. Figure 31System ManualDepending on the propagation medium conducted or nonconductedA distinction is made between the following. Direct coupling. Capacitive coupling. Inductive coupling. Radiated interference. System ManualCoupling. Mechanisms and. Typical. Interference. Sources at a. Glance. Shown in the following table are the four different coupling mechanisms,Cause. Coupling Mechanism. Direct Coupling. Typical Interference Sources. Direct or metallic couplingSwitched devices supplyMotors being started. Different potentials ofStatic discharges. Capacitive or electrical couplingInterference pickup viaDirect Coupling. PathInterference. Capacitive Coupling. Path.

The degree of coupling isStatic discharge of theContactorsInterference. Inductive. Coupling Path. Signal. Inductive or magnetic couplingTransformers, motors,Parallel AC supply cables. Cables whose currents areSignal cables with a highUnconnected coilsCoupling Mechanism. Radiated Interference. Cause. There is a radiation path when aImpinging of the wave results inTypical Interference Sources. Local transmittersSpark gaps spark plugs,Radiation PathIt is often sufficient to comply with a few elementary rules for ensuring. EMC. When installing the control system, therefore, observe the followingWhen installing the programmable controllers, provide largearea goodMake a largearea lowimpedance interconnection of all inactive metalFor screw connections on painted and anodized metal parts, either useIf possible, do not use aluminum parts. Aluminum oxidizes easily and isMake a central connection between the chassis ground and the. Ensure proper routing of lines when wiring see Sections 3.3.1 and 3.3.2. Arrange the cabling in line groups. AC power cable, power supply lines,Always install AC power cables and signal or data lines in separate ductsRoute the signal and data lines as closely as possible to grounded surfacesEnsure that cable shields are properly secured see Section 3.3.3. Data lines must be shielded. The shield should be connected at both ends. Analog lines must be shielded. For the transfer of signals with lowUse metal or metallized connector cases for shielded data lines.Employ special EMC measures for particular applications see. Section 3.3.4. Fit quenching elements to all inductances which are not controlled by. SIMATIC S5 modules. Use incandescent bulbs for illuminating cabinets, and avoid fluorescentCreate a standard reference potential; ground all electrical apparatus ifUse specific grounding measures.

Grounding of the control system is aSystem parts and cabinets with central controllers and expansion unitsIn the case of potential differences between system parts and cabinets,System ManualMeasures for suppressing interference voltages are often applied only whenDescribed inBasic rules for grounding the inactive metal parts. Examples of cabinet assembly for EMC. Example of rack and wall mounting for EMCParts. Ensure widearea chassis grounding of the inactive metal parts whenProperly implemented grounding creates a uniformChassis grounding is understood to mean the electrical connection of allInactive parts are conductive parts which are electrically isolated from activeThe chassis ground must not develop a dangerous touch voltage, even inThe ground must therefore be connected to the protectiveEnsure the following when chassis grounding. Connect the inactive metal parts with the same degree of care as theEnsure lowimpedance metaltometal connections, e.g. with largeareaWhen you are incorporating painted or anodized metal parts in theProtect the connection points from corrosion, e.g. with grease. Movable grounded parts such as cabinet doors must be connected viaThe grounding strips should be short and have aThe example of cabinet assembly in the figure shows the various measures,This example applies only to grounded operation. Follow the pointsExample of Cabinet Assembly for EMC. System ManualIf there are no largearea metaltometal connections, you mustThese should be short and have a large surface. Cabinet members. The cabinet members should have a largearea connection to theMounting bracket for subrack. There must be a largearea metaltometal connection betweenSignal lines. With shielded signal lines, the shield must be secured to theCable clamp. The cable clamp must enclose and make contact with the shield braidShield bar. This bar must have a largearea connection to the cabinet membersIt serves for grounding the cable shields. Protective conductor bar.

The protective conductor bar must have a largearea connection toThe protectiveThis is essential forConductor to the protective conductor system ground point. The conductor must have a largearea connection to the protectiveSystem ManualTo operate your control system in a lowinterference environment whilstSpecifications”, you can mount the programmable controllers on racks orPickedup interference should be given a path to large metal surfaces. YouFor wall mounting in particular,When installing shielded cables, provide a shield bar for connecting the cableEnsure the following for rack and wall mounting. S Suitable contacting aids should be used on painted and anodized metalS Provide largearea, lowimpedance metaltometal connections when. S AC conductors must be covered. Reference Potential. Surface. Shielded Signal. Line. Cable Clamp for. Shield Contact. Conductor Bar. Connection to. Figure 33. System ManualThe following section describes. Routing of cables within and outside cabinets. Equipotential bonding between devices. Single and doubleended connection of cable shields. Checklist for electromagnetically compatible installationThis section covers the routing of bus, signal and supply lines. The purposeRouting of Cables. Within and. Outside Cabinets. For electromagnetically compatible routing of cables and lines, it isGroup A. Shielded bus and data lines for programmer, OP, SINEC L1, SINEC L2,Shielded analog lines. Unshielded lines for DC voltage v 60 V. Unshielded lines for AC voltage v 25 V. Coaxial cables for monitors. Group B. Group C. Group D. Lines for SINEC H1. From the combination of individual groups in the following table, you canGroup A. Group A. Group DGroup C. System ManualLegend for the table. Lines can be laid in common bundles or cable ducts. Routing of Cables. Outside Buildings.

Lines must be laid in separate bundles or cable ducts withoutLines within cabinets must be laid in separate bundles or cableLines must be laid in separate bundles or cable ducts with aOutside buildings, lay the lines on metal cable trays if possible. Provide theWhen laying lines outside buildings, you must observe the valid lightningThe following applies in general. Lightning. ProtectionWhere cables and lines for SIMATIC S5 controllers are to be laidOutside the buildings, lay your lines eitherProtect the signal lines from overvoltages by means ofFit these protective devices at the cable entry into the building. Note. Lightning protection measures always require an individual

assessment ofFor clarification, please consult your Siemens regionalEquipotential. Bonding. System ManualBetween separate sections of an installation, potential differences canS cable shields are connected at both ends and are grounded at differentDifferent AC supplies, for example, can cause potential differences. TheseThe following points must be observed for equipotential bonding. S The lower the impedance of the equipotential bonding conductor, theS Where shielded signal lines are laid between the relevant sections of theS The crosssection of the equipotential bonding conductor must be ratedThe following crosssections ofS Use copper or zincplated steel for equipotential bonding conductors.S The equipotential bonding conductor should be laid so that the smallestSignal Line. EquipotentialBonding Conductor. Figure 34System ManualShielding is a method of attenuating magnetic, electrical or electromagneticWhere possible, only use lines with a braided shield. The coverage density ofAvoid lines with a foil shield becauseAs a rule, line shields should always be connected at both ends.

This is theOnly in exceptional cases should the shield be connected at one end only, asSingleended shieldWith data lines for serial communication, always use metal or metallizedFor stationary operation, it is advisable to fully strip the insulation from the. In the event of potential differences between ground points, a circulatingIn this case,System ManualPlease observe the following points when connecting the shield. Use metal cable clamps for securing the braided shield. The clamps mustConnect the shield to a shield bar immediately after the cable entry intoSystem ManualFitting Quenching. Elements to. Inductances. As a rule, inductances such as contactor or relay coils controlled by. SIMATIC S5 do not require external quenching elements in the circuit,Inductances should only be fitted with quenching elementsIn this case the integratedYou can place freewheel diodes, varistors or RC networks in circuit withCircuitry for DCOperated. With Diode. Figure 36. With Zener Diode. Circuitry for ACOperated. With Varistor. With RC Network. Quenching Circuits for Inductances. System ManualAC Power. Connection for. Programmers. A power socket should be fitted in each cabinet for the AC supply toCabinet Lighting. Use incandescent bulbs, such as LINESTRA lamps, for cabinet lighting. Avoid using fluorescent lamps because they generate interference fields. IfScreen Over the Lamp.