



SITOP SELECT Diagnostics module 4DC-10A

SITOP select Diagnostics module 4-channel input: 24 V DC/40 A output: 24 V DC/4x 10 A threshold adjustable 2-10 A. *IEC approval no longer available*

Input	
type of the power supply network	Controlled DC voltage (SITOP select is not designed for operation with DC UPS module 40 A (6EP1 931-2FC21-2FC42))
supply voltage at DC rated value	24 V
input voltage at DC	22 ... 30 V
overvoltage overload capability	35 V, 100 ms
input current at rated input voltage 24 V rated value	40 A
Output	
voltage curve at output	controlled DC voltage
formula for output voltage	$V_{in} - \text{approx. } 0.3 \text{ V}$
relative overall tolerance of the voltage note	In accordance with the supplying input voltage
number of outputs	4
output current up to 60 °C per output rated value	10 A
adjustable current response value current of the current-dependent overload release	2 ... 10 A
type of response value setting	via potentiometer
product feature parallel switching of outputs	No
type of outputs connection	Simultaneous connection of all outputs after power up of the supply voltage, delay time of 24 ms or 100 ms programmable for sequential connection
Efficiency	
efficiency in percent	97%
power loss [W] at rated output voltage for rated value of the output current typical	30 W
Switch-off characteristic per output	
switching characteristic <ul style="list-style-type: none"> • of the excess current • of the current limitation • of the immediate switch-off 	$I_{out} = 1.0 \dots 1.3 \times \text{set value}$, switch-off after approx. 5 s $I_{out} = 1.3 \times \text{set value}$, switch-off after approx. 50 ... 100 ms $I_{out} > \text{set value}$ and $V_{in} = 20 \text{ V}$, switch-off after approx. 0.5 ms
residual current at switch-off typical	20 mA
design of the reset device/resetting mechanism	Using keys on the module
remote reset function	-
Protection and monitoring	
fuse protection type at input	Blade-type fuse per output (equipped when delivered with 15 A fuse)
display version for normal operation	Two-color LED per output: green LED for "Output switched through"; red LED for "Output switched off due to overcurrent"
design of the switching contact for signaling function	Common signal contact (NO-contact, rating 0.5 A/24 V DC)
Safety	
galvanic isolation between input and output at switch-off	No
standard for safety	according to EN 60950-1 and EN 60178
operating resonance protection class	Class III
protection class IP	IP20

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SCI: Scalable Coherent Interface Hermann Hellwagner,Alexander Reinefeld,2006-12-29 Scalable Coherent Interface
SCI is an innovative interconnect standard ANSI IEEE Std 1596 1992 addressing the high performance computing and networking domain This book describes in depth one specific application of SCI its use as a high speed interconnection network often called a system area network SAN for compute clusters built from commodity workstation nodes The editors and authors coming from both academia and industry have been instrumental in the SCI standardization process the development and deployment of SCI adapter cards switches fully integrated clusters and software systems and are closely involved in various research projects on this important interconnect This thoroughly cross reviewed state of the art survey covers the complete hardware software spectrum of SCI clusters from the major concepts of SCI through SCI hardware networking and low level software issues various programming models and environments up to tools and application experiences

Power Plant Instrumentation and Control Handbook Swapan Basu,Ajay Kumar Debnath,2014-11-04 The book discusses instrumentation and control in modern fossil fuel power plants with an emphasis on selecting the most appropriate systems subject to constraints engineers have for their projects It provides all the plant process and design details including specification sheets and standards currently followed in the plant Among the unique features of the book are the inclusion of control loop strategies and BMS FSSS step by step logic coverage of analytical instruments and technologies for pollution and energy savings and coverage of the trends toward field bus systems and integration of subsystems into one network with the help of embedded controllers and OPC interfaces The book includes comprehensive listings of operating values and ranges of parameters for temperature pressure flow level etc of a typical 250 500 MW thermal power plant Appropriate for project engineers as well as instrumentation control engineers the book also includes tables charts and figures from real life projects around the world Covers systems in use in a wide range of power plants conventional thermal power plants combined cogen plants supercritical plants and once through boilers Presents practical design aspects and current trends in instrumentation Discusses why and how to change control strategies when systems are updated changed Provides instrumentation selection techniques based on operating parameters Spec sheets are included for each type of instrument Consistent with current professional practice in North America Europe and India

Motor design for maximum material exploitation and magnetization procedure with in-line quality check for mass production Dinca, Christian,2017-03-09 To reduce the amount of Rare earth Elements in high efficient permanent magnet electric motors the magnetic stray flux has to be reduced Additionally a temperature reduction inside the motor reduces the necessary amount of the so called Heavy Rare earth Elements which account for the bulk part of the magnet material costs In this thesis a permanent magnet motor in wet rotor configuration for an automotive application is designed It was shown that by simple thermal improvements of the electric insulation system the maximum temperature of the stator can be reduced Extensive measurements on different

combinations of insulation material of the stator and the development of a new thermal model for orthocyclic wound stators were performed. Due to the use of fiber cans eddy current losses could be eliminated and the stray flux minimized. In a second stage a magnetizing fixture was built up which is able to magnetize the buried magnets inside the rotor. The rotor and the magnetizing fixture were developed so that the magnets can be optimally magnetized. To check the quality of the magnets the magnetizing coil was developed in a way such that the hysteresis curve of every single magnet during magnetization can be measured. Different magnets were tested and ways to calculate parasitics are given.

Um die Menge an Seltenen Erden in hoch effizienten permanent erregten Elektromotoren zu reduzieren muss der magnetische Streufluss verringert werden. Eine Temperaturreduktion im Motor verringert zudem die nötige Menge an sogenannten schweren Seltenen Erden, welche einen Großteil der Kosten der Magnetmaterialien ausmachen. In dieser Arbeit wird dazu ein permanent erregter Nussler für eine automotiv Anwendung ausgelegt. Es konnte gezeigt werden, dass durch einfache Maßnahmen im Bereich der elektrischen Isolation die maximale Temperatur im Stator reduziert werden konnte. Umfangreiche Messungen an verschiedenen Kombinationen von elektrischen Isolationen des Stators und die Entwicklung eines neuen thermischen Modells für orthozyklisch gewickelte Statoren wurden getriggert. Durch Einsatz von Spaltrohren aus Faserverbundwerkstoffen konnten die Wirbelstromverluste beseitigt werden und der Streufluss minimiert werden. In einem zweiten Schritt wurde eine Magnetisiervorrichtung aufgebaut, mit der die zu Anfang unmagnetisierten eingebetteten Magneten im Rotor aufmagnetisiert werden konnten. Der Rotor wurde zudem zusammen mit der Magnetisierungsspule so ausgelegt, dass die Magnete optimal magnetisiert werden können. Um die Qualität der Magnete zu testen wurde die Magnetisierungsspule zudem so ausgelegt, dass eine Messung der Hysteresekurve jedes einzelnen Magneten während der Magnetisierung möglich ist. Verschiedene Magnete wurden vermessen und Möglichkeiten zur Bestimmung von parasitären Effekten gegeben.

Gaseous Dielectrics VIII Loucas G. Christophorou, James K. Olthoff, 2012-12-06. Gaseous Dielectrics VIII covers recent advances and developments in a wide range of basic applied and industrial areas of gaseous dielectrics. *The Journal of the Iron and Steel Institute*, Iron and Steel Institute, 1922. Includes the institute's Proceedings. **Transactions** Iron and Steel Institute, 1922. *Trends in Maritime Technology and Engineering* C. Guedes Soares, T.A. Santos, 2022-06-07. Trends in Maritime Technology and Engineering comprises the papers presented at the 6th International Conference on Maritime Technology and Engineering MARTECH 2022 that was held in Lisbon, Portugal from 24-26 May 2022. The Conference has evolved from the series of biennial national conferences in Portugal which have become an international event and which reflect the internationalization of the maritime sector and its activities. MARTECH 2022 is the sixth of this new series of biennial conferences. The book covers all aspects of maritime activity including in Volume 1: Structures, Hydrodynamics, Machinery, Control and Design. In Volume 2: Maritime Transportation and Ports, Maritime Traffic Safety, Environmental Conditions, Renewable Energy, Oil, Gas and Fisheries and Aquaculture. Trends in Maritime Technology and Engineering aims at

academics and professionals in the above mentioned fields

Sensors: Fundamentals and general aspects W. Göpel, J. Hesse, Jay N. Zemel, 1989 Sensors is the first self contained series to deal with the whole area of sensors It describes general aspects technical and physical fundamentals construction function applications and developments of the various types of sensors Consisting of nine volumes altogether with eight dedicated to various topics and the ninth as cumulative index each volume offers in depth information in one particular field within sensor technology The entire set is an indispensable reference work for both specialists and newcomers researchers and developers working in this interdisciplinary field that ranges from research to commercial application Publisher s website

EDN. ,1987 **Iron & Coal Trades Review** ,1922 Vol 115 includes Diamond jubilee issue 1867 1927 **Electronic Design** ,1996 **Journal of the Institute of Metals** Institute of Metals,1930 Issues for Sept 1951 include the Bulletin **Development/deployment Investigation of H-Bahn System** ,1981 Motorola Optoelectronic Device Data Motorola Semiconductor Products Inc,1981 *Bibliography of Scientific and Industrial Reports* ,1947 **Aero Digest** ,1927 *The Wireless World and Radio Review* ,1929 **The Mechanical World** ,1910 Magnetic Materials and Their Applications Carl Heck,1974 *Wireless World* ,1929

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