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IPS-Series 710

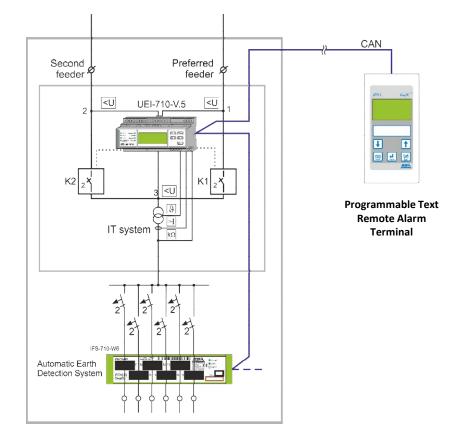
Complete Isolated Power Solution for Operating Rooms and Critical Care Areas

IPS-Series 710

- Isolated Power Supply (IT) distribution systems are a recognised requirement as a means of protection for all electrical power outlets in group 2 (category 4/5) areas, including ORs, Recovery, ICU, A & E and Imaging Rooms
- In many countries in accordance with national and international standards this requirement may be mandatory.
- IPS systems provide protection from electric shocks and continuity of supply in the event of a first earth fault
- The IPS-Series 710 is a compact, floor-standing cabinet with insulation, temperature and overload monitors, integrated transformers (4kVA-10kVA) and outgoing distribution
- Single or multiple channel cabinets available
- Optional earth detection and automatic transfer systems available with monitoring devices where required
- Multiple beds with the same use may be fed from a single transformer ensuring each bed space has at least 2 separate socket outlet circuits
- The interleaving of final subcircuits from multiple transformers is seen as a recognised and recommended way to enhance resilience







- Fully programmable 5-line remote alarm text display for displaying operational and fault messages of monitored power supply systems
- Wall-mounted distribution and separate free standing transformer enclosures available
- Unique distribution cabinet ready for connection with extensive and easy to use functionality
- Network TCP/IP Gateway with CAN bus protocol



Features

- Modular design with separate load switching and control
- Partial replacement of individual components
- Multifunctional changeover and monitoring device
- Bypass functionality enables uninterrupted recurrent testing
- Reliable separation of feed-in systems by using motor driven load-break switches
- Connection of signalling, operating systems and I/O components via CAN bus
- Earth detection system (IFS) for up to 30 feeders
- IT transformers (3.15kVA 10kVA) according to DIN EN 61558-2-15
- Short delivery time due to standard distributor
- Employment of latest push-in terminal and latest automated ultrasonic welding technology with consistent single wire labelling

Advantages

- Compact design ensures smaller cabinet dimensions with large connection space
- Complete documentation of faults with date and time in a history memory
- Automatic test monitoring by triggering "silent alarms" when test intervals are exceeded. Can be forwarded to the BMS
- Plug-in terminals allows changeover and monitoring devices to be replaced whilst system is operational
- Secure and quick isolation monitoring by means of patented measuring method
- Self-monitoring of all internal and external functions of the IT system
- Quick troubleshooting with the optional earth detection system
- A separately locked transformer compartment allows for optimum running temperatures

Technical Data (excerpt)

Product designation	IPS-ICU Series 710
Operating voltage	230 V AC, 5060 Hz
Control voltage	230 V AC, 5060 Hz
Rated power, IT power transformers	4 / 6.3 / 8 / 10kVA
Dimensions, H x W x D	2000 x 350 x 400 mm
	H = 2300 mm with 24 or 30 feeders (LSA), 2-pole
Possible number of feeders (LSA), 2-pole	6 / 12 / 18 / 24 / 30
Multifunctional changeover and monitoring device UEI-710-V.5	
Adjustment range, undervoltage	150230 V (0.65 1.0 x Un)
Adjustment range, overvoltage	230260 V (1.0. 1.13 x Un)
Switch-on delay tvh (switch-on time)	020 s (increments of 0.2 s)
Switch-off delay tvr (switch-off time)	020 s (increments of 0.2 s)
Isolation monitoring, 230 V	AC 50.60 Hz / 120.265 V
	AC 50.00 HZ / 120.205 V
Response value / hysteresis	programmable 50250 kOhm / fixed +25%
Response value / hysteresis Load current monitoring, response value / hysteresis	-
	programmable 50250 kOhm / fixed +25%
Load current monitoring, response value / hysteresis	programmable 50250 kOhm / fixed +25% programmable 550 A / fixed 4%
Load current monitoring, response value / hysteresis Temperature monitoring	programmable 50250 kOhm / fixed +25% programmable 550 A / fixed 4% 120°C (using break contacts or PTC thermistors) CAN / CAN (2.0) ISO 11898, additional coupling possible: via
Load current monitoring, response value / hysteresis Temperature monitoring Communications interface / protocol	programmable 50250 kOhm / fixed +25% programmable 550 A / fixed 4% 120°C (using break contacts or PTC thermistors) CAN / CAN (2.0) ISO 11898, additional coupling possible: via gateways; binary, Modbus e.g. operating and signaling terminal BMTI 5, signaling and
Load current monitoring, response value / hysteresis Temperature monitoring Communications interface / protocol Connection of peripheral devices (via CAN bus)	programmable 50250 kOhm / fixed +25%programmable 550 A / fixed 4%120°C (using break contacts or PTC thermistors)CAN / CAN (2.0) ISO 11898, additional coupling possible: via gateways; binary, Modbuse.g. operating and signaling terminal BMTI 5, signaling and operating panels Series FolioTec

Monitoring of "recurrent testing", triggering of "silent alarms", 'when test intervals are exceeded

Isolation fault detection (IFS) when using the isolation fault detection devices IFS-710-W6

- Output circuit fault detection
- Integrated instrument transformers
- Triggering threshold, test signal: 0.5 mA
- Up to 30 feeders can be monitored