

TDS-ES

IT system distribution switch board

technical data

Electrical Characteristics

Input voltage	400 V 3N~ / 230 V~
Output voltage	230 V~ / 230 V~
Phases	Three phases / Single phase
Frequency	50-60 Hz
Power	3 to 10 kVA

Characteristics Board

Material	Steel
Surface finish	Epoxy-polyester powder
IP grade	IP20
Ik grade	IK06
Degree of pollution	Grade 2

Emergency supply unit for surgical lights

Source supply	100-240 V~ / 50-60Hz
Output voltage	24 to 275Vcc
Load capacity	75/150W
Battery	24Vcc -7AH
Battery useful life	5 years

Force Ventilation (optional)

Fan

Max flow	150 / 170 m3/h
Power consumption	19 / 22 W

Temperature sensor

Precision	+/- 1%
Range	0° - 150°

Ambient Conditions

Ambient temperature	-10°C to + 60°C
Relative humidity	20% to 80%

Design in according

IEC 60364-7-710 (Low-voltage electrical installations. Part 7-710: Requirements for special installations or locations. Medical locations), EN 61439-1 (Low-voltage switchgear and controlgear assemblies - Part 1: General rules) and EN 61439-2 (Low-voltage switchgear and controlgear assemblies - Part 2: Power switchgear and controlgear assemblies).

Electrical Testing in Laboratory

DEKRA Testing and Certification S.A.U.

Protection against Electric Shock

Class I

CE 0197 - Notify Body

TüV Rheinland LGA Products GmbH

quality

Tedisel Management System and all our products are certified with quality seal **ISO 9001**, **ISO 13485** and **CE marking** granted by notified body **TÜV RHEINLAND LGA Products GmbH**.

All medical devices developed and manufactured in Tedisel, are regulated by the European Directive 93/42/EEC. All equipment has accreditation and certification of electrical safety and electromagnetic compatibility standards ISO 11197 and EN 60601.



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Energy and protection



Safety

Changeover device with by-pass switch.



Integrated solution

Include isolating transformer, changeover devices and insulation monitor.



Facilitates access to the technicians



Versatile /Flexible

Different number of pole circuits breakers.



Customize

Type of isolating transformers.
 • Three phases or single phase.
 • Power rating 3 to 10kVA.



Some references:

- Hospital Vall d'Hebron, Barcelona · Spain
- Life in Day Care and Surgery Centre, Dubai
- Zayed Military Hospital, Abu Dhabi, United Arab Emirates
- Coccona Hospital Center, Dubai
- Complejo Hospitalario Reina Sofía, Córdoba · Spain

DISTRIBUTION SWITCH BOARD

- Changeover device
- Insulation monitor
- Isolating transformer
- Two-pole circuits breakers
- Emergency supply unit for surgical lights

FEATURES OF COMPONENTS

Automatic transfer switching device

- Blackout <90ms
- ModBus connection (optional)
- Bypass switch (optional)

Isolating transformer

- Voltage: 230/400 V~
- Frequency: 50-60 Hz
- Safety class: Class I
- Leak current < 0,5 mA
- Medical use
- Power: 3,15 to 10 kVA
- Insulating class: F (155° C)
- No load current < 3%
- Insulation resistance 7 MOhmios

Emergency supply unit for surgical lights

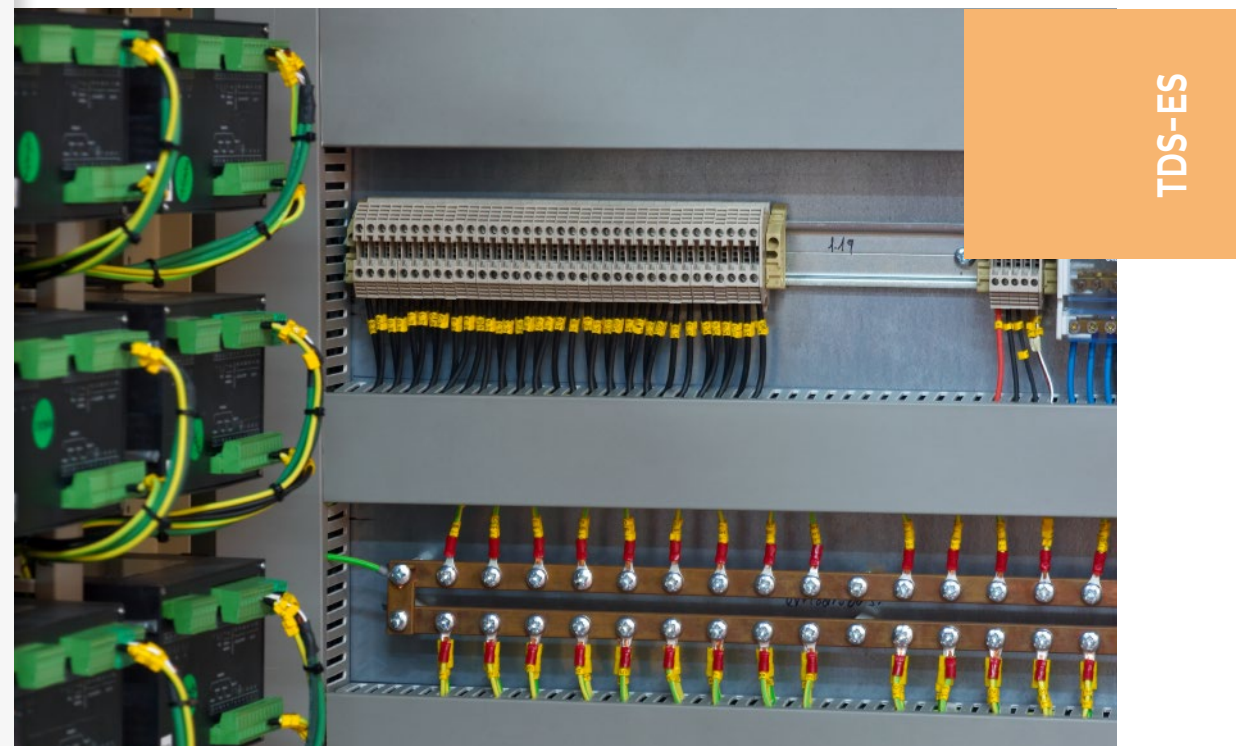
- Switch over system: Instantly
- Load capacity: 75/150W
- Source supply: 100-240 V~/ 50-60Hz
- Emergency supply unit for 2 led light head: 2 hours
- Output voltage: 24 to 27,5Vcc

Two-pole MCBs

- At least 8 two-pole MCBs

Insulation monitor

- Power supply voltage: 100-240 V~ / 50-60 Hz
- Safety class: Class I
- Monitoring: Temperature of transformer, Load and History alarms



IT SYSTEM DISTRIBUTION SWITCH BOARD DETAILS

Design

Sheet Steel housing.

Ambient conditions

Conducted waste heat by free convection*.

Safety

Automatic transfer switching device, with optional bypass switch.

Protection

Isolating Transformer.

Flexible

Total adaptation according to the needs of the client and the project.

* Optional: air circularion fan working with temperature sensor.

