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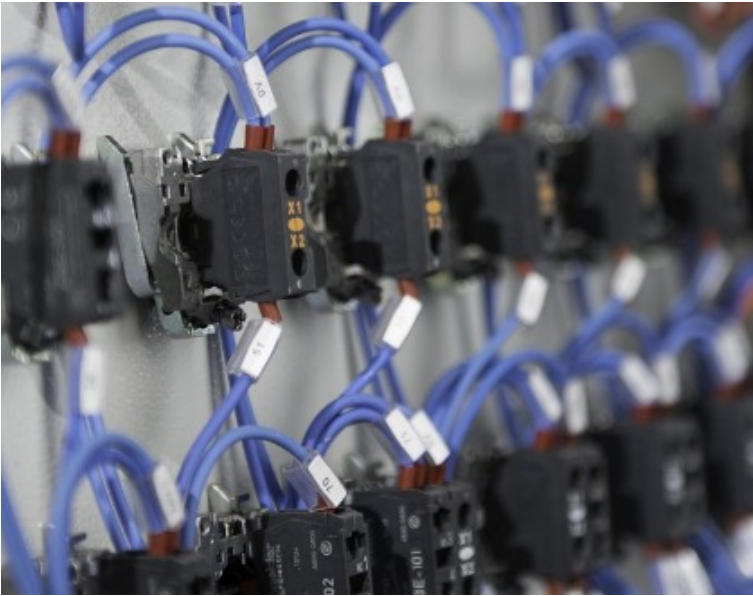
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Технические характеристики на шкафы управления для безопасной зоны, для зоны Ex-d, для Ex-p зоны КОМПАНИИ **MASTERWATT**

CONTROL CABINETS\SWITCHBOARD\THYRISTOR

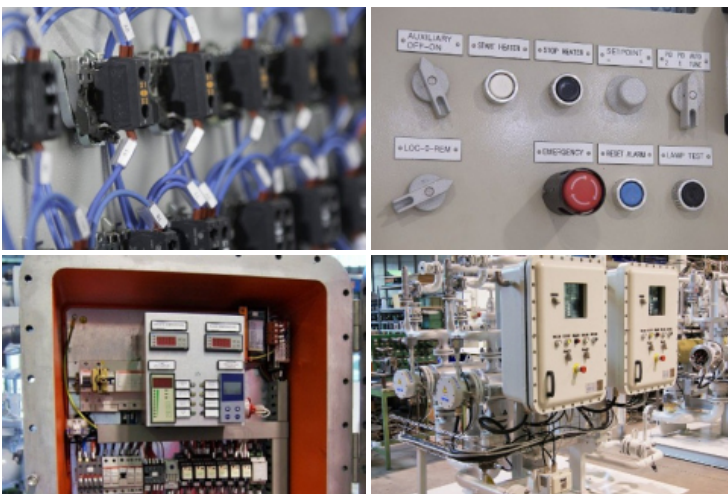


Control cabinets\switch\thyristor cabinets for ex-d zone

Masterwatt is able to realize electrical panels dedicated to the control of its electric heaters. In the event that the customer wishes to install directly in the field or on skid, Masterwatt can produce control panel cabinet and switchboard with thyristor according to ATEX Ex-d

The executions may include the various customizations as follows:

- Certification: valid for zone 1 and zone 2 / Ex-d / t ° amb on request up to -45 ° + 50 ° C
- power: management from small single-phase powers up to three-phase loads of 55-60 Kw (over this threshold it is necessary to switch to Ex-p solutions)
- type of protections: fuses, int. magnetic, int. differentials
- type of control: multi-stage ON / OFF management and / or SCR thyristor systems



Control cabinets / switchboard / thyristor cabinets for Ex-p zone



Control cabinets\switchboard\thyristor cabinets for ex-p zone

Masterwatt is able to realize electrical panels dedicated to the control of its electric heaters. In the event that the customer wishes to install directly in the field or on skid, Masterwatt can produce control panel cabinet and switchboard with thyristor according to ATEX Ex-p

The executions may include the various customizations as follows:

- Certification: valid for zone 1 and zone 2 / Ex-p / t° amb on request up to $-45^{\circ} + 65^{\circ}$ C
- power: management from small single-phase powers up to three-phase loads of 700 kW
- type of protections: fuses, int. magnetic, int. differentials
- type of control: multi-stage ON / OFF management and / or SCR thyristor systems

CONTROL CABINETS\SWITCH\THYRISTOR CABINETS FOR SAFE AREA



Control cabinets\switch\thyristor cabinets for safe area

Masterwatt can design and manufacture control panels dedicated to the control of its own heaters. These panels are defined in accordance with the customer functional requirements and specifications to best suit the customer needs. The adopted design and manufacturing standards are CEI, IEC, EAC, CSA, DNV, RINA, LLOYD'S REGISTER, ABS.

Masterwatt can supply also thyristor control panel according to dedicated customer specification like: DEP SHELL, ARAMCO, ITN NUOVO PIGNONE, NORSOK, BP, SAIPEM.

The control panel functional sections can be tailored to the customer needs as follows:

- type of protection: fuses, magnetic breakers, differential breakers
- type of control: multi-stage ON/OFF and/or thyristor-based systems (SCR system)
- protection degree: IP42÷IP66
- lockers material: stainless steel, painted carbon steel, polyester
- controller types: PID thermo-regulators, PLC-based systems
- controlled power: from low-power mono-phase loads to three-phase loads up to 2÷3 MW

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