

CUSTOM DESIGNED SWITCHRACKS, PANEL BOARDS, MOTOR STARTERS

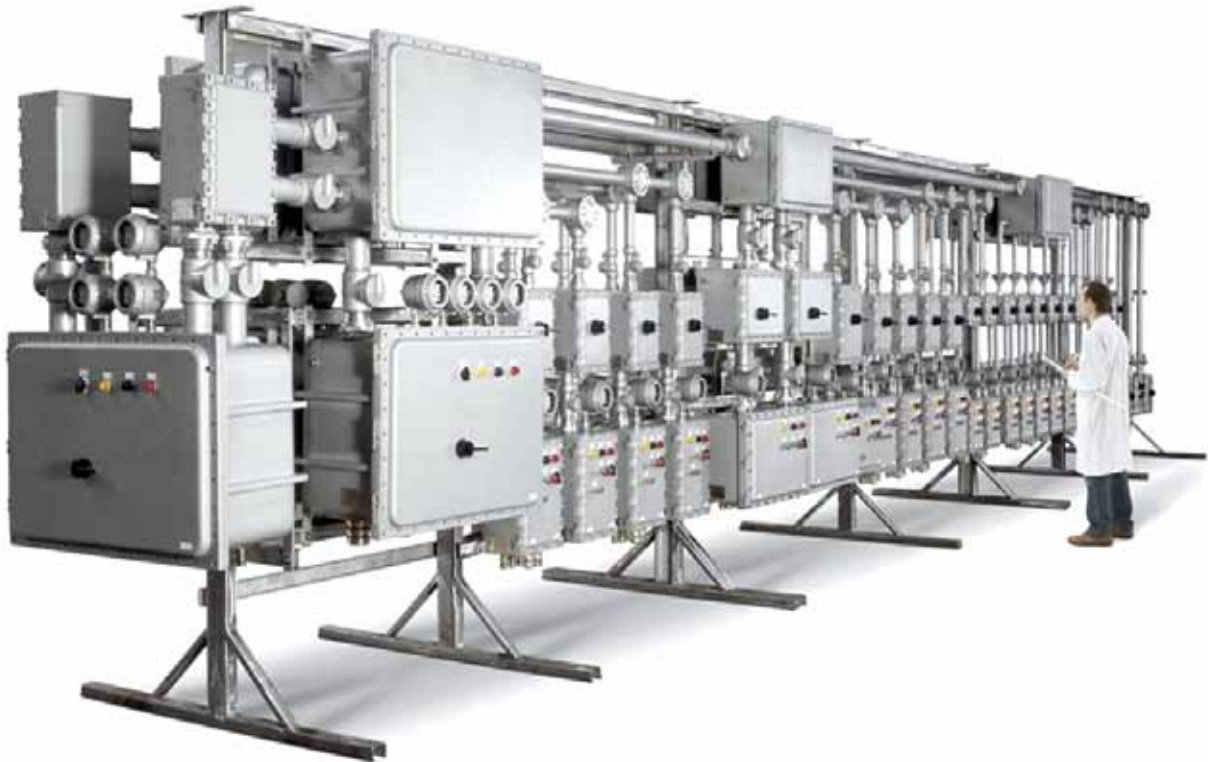
Explosion Proof Electrical Equipment



Ex Enclosures

Installation: hazardous areas - Zone 1 / 2 (Gases) - Zone 21 / 22 (Dusts)
Classification: Group II - Category 2G 2D

SWITCHRACKS



SWITCHRACKS



GOST-R
RTR Ex Proof



	SWITCHRACK	
	ATEX 94/9/EC	NEC - NEMA 4, 7, 9
EXECUTION/ INSTALLATION	⊕ II 2 GD Ex d IIB+H ₂ / IIC	Class I - Groups B, C and D / Class II - Groups E, F, and G / Class III
PROTECTION	-	4, 7 BCD, 9 EFG
AMBIENT TEMPERATURE	-60° + 130°C	-20°C ÷ +40°C
MECHANICAL DEGREE	IP65 - IP66	IP66
CERTIFICATION AND COMPLIANCES	-	UL Standard 1203 - 4 th Ed. (15 Sett. 2006) Explosion-Proof / Dust-Ignition-Proof Electrical Equipment for Use in Hazardous (Classified) Locations
	ANTISEISMIC TEST	
FOR PERFORMING	zone UBC 3 e MSK > VIII < IX	
	zone UBC 4 MSK > IX	
CERTIFICATE REF.	CESI doc.: A9022645	
RULES OF COMPLIANCE	CEI EN 60068-2-57 Cat.1; CEI EN 60068-3-3	

Mechanical characteristics

Boxes	marine grade copper free aluminum - stainless steel
Painting	external epoxy powders grey RAL-9006 colour
Screws	external stainless steel
Gaskets	silicon rubber
Pipes and fittings	galvanized steel
Supporting rack	hot dip galvanized steel

ON REQUEST ACCESSORIES:

- Stainless steel pipes and fittings
- Galvanized steel epoxy painted supporting rack
- Stainless steel supporting rack
- Internal anticondensate painting orange RAL-2004
- External colours different from standard

SWITCHRACKS, PANEL BOARDS - General Information

Description:

“SWITCH-RACK” is a word usually adopted to indicate an ensemble of control units, signaling units, motor starters, switching units, and so on. Switch-racks are mechanically assembled on robust frame with various fixing solutions (ground, wall, etc.), electrically wired up on purpose. FEAM since over 40 years, designs and manufacturers switch-racks according to its own diagram or according to customer's specifications, in full compliance with European CENELEC standards.

INFORMATIONS:

Test and inspections:

All components and documents are tested and checked at the various working stages, according to FEAM's "Quality Plans". The above mentioned Plans call for all test and checks necessary to ensure an execution "on purpose". Whenever a strict, documented quality control execution is required please advise FEAM Sales Department. When the switchrack is completed, an effective working inspection is carried out, and an "inspection report" is written. Customer's inspectors are allowed in FEAM's workshop to survey working evolution and to witness final inspection.

Standard Tests and Checks:

- | | | |
|----------------------------------|------------------------------|---|
| • Visual and dimensional control | • Mechanical running control | • Grinding check |
| • Working control | • Hydrostatic test | • Insulation resistance measuring |
| • Equipment control | • Insulation test | • Insulation test / Electrical running test |

Ordering:

The following technical information are needed to work out a switchrack. A direct consult with FEAM Sales Department is however advisable, especially when problems of space arise.

- A) Area classification and mode of protection.
- B) Applicable standards
- C) Power and auxiliary wiring diagrams or full, detailed description of switchrack's work
- D) Maximum overall dimensions.
Possibility of double front execution
- E) Location of incoming and outgoing cable entries
- F) Threading, size and number of hubs
- G) Type of cable entries
- H) Painting cycle, type and color
- I) Switchrack's location (indoor or outdoor)
- L) Request of protective canopy (if needed)
- N) "Vendor List" of components to be respected (if any)

Responsibility:

Once acknowledged the order, FEAM Technical Dept. issues electrical and mechanical manufacturing drawings. These drawings are sent to customer "for approval" and whichever change has to be advised as soon as possible. We take full responsibility for engineering, purchasing and assembling of components, wiring and erection of the ensemble ready for installation.



REMARK:

Due to the development of the national and international specifications and of the technology, the above technical characteristics showed on this bulletin can be considered as binding on our confirmation only.