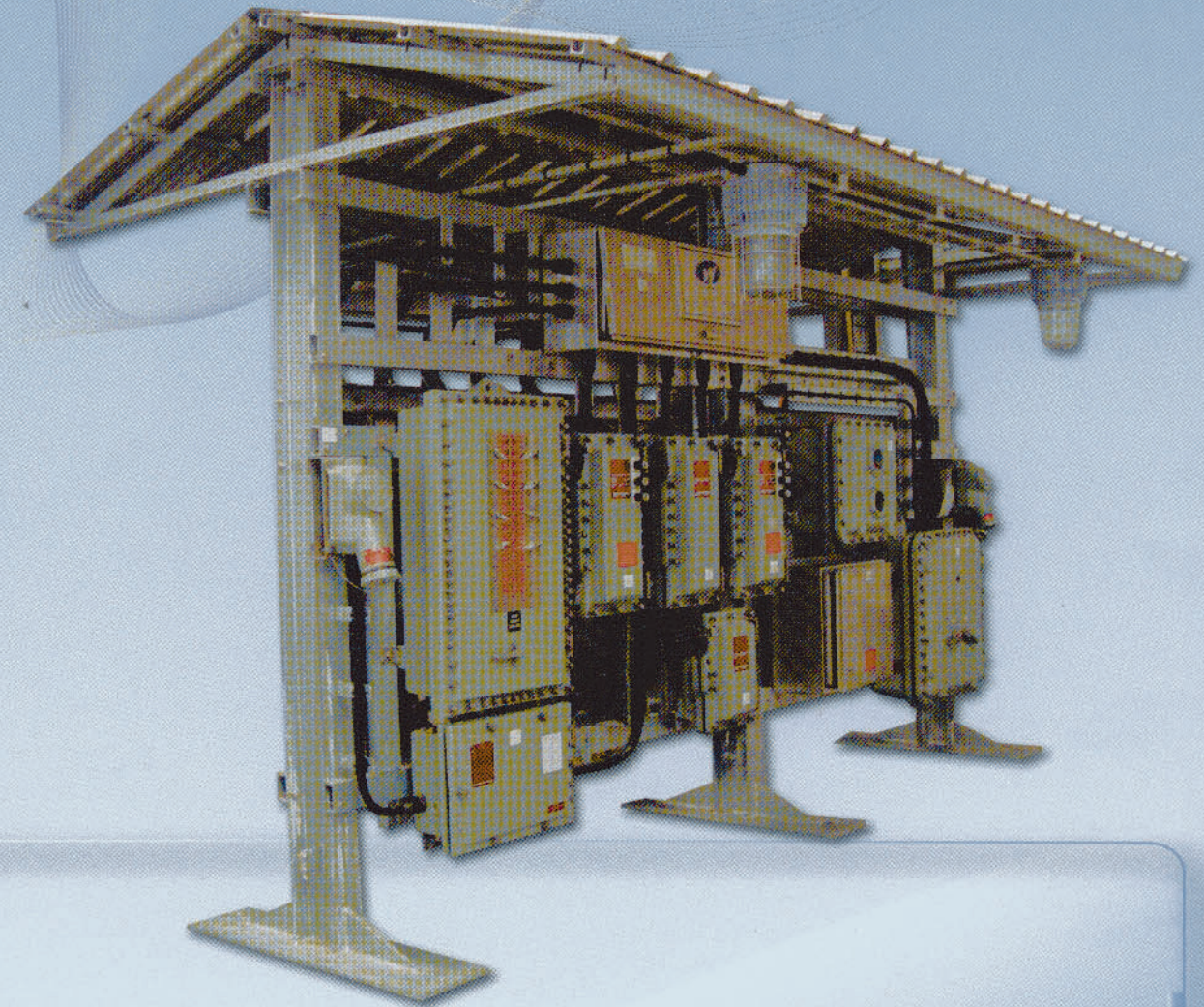




شركة واحة العربية السعودية للإمدادات الكهربائية المحدودة
Wahah Electric Supply Co. of Saudi Arabia (Ltd.)

www.wescosa.com



Low Voltage Switchracks & Power Distribution Racks

- Suitable for indoor or Outdoor Application
- Special Designs for Harsh Environment Classified Areas and corrosive environments.
- Switchracks are manufactured to NEMA, UL, CSA & FM standards and NEC requirements.
- All enclosures are tested & certified by third party laboratories
- Maximum rating 600 V AC, 50/60 Hz, 1200 Amps.

Switchgear Business Unit :
Dammam 1st Industrial City, P.O. Box 2389, Dammam 31451, Saudi Arabia
Tel.: +966 3 810 0234, Fax: +966 3 857 7128
E-mail: sbu@wescosa.com
Transformer Business Unit
Tel.: +966 3 847 4242, Fax: +966 3 847 1684
E-mail: tbu@wescosa.com
Wescosa Riyadh Branch
Tel.: +966 1 405 3899, Fax: +966 1 405 7660
Wescosa Jeddah Branch
Tel. / Fax: +966 2 614 1825

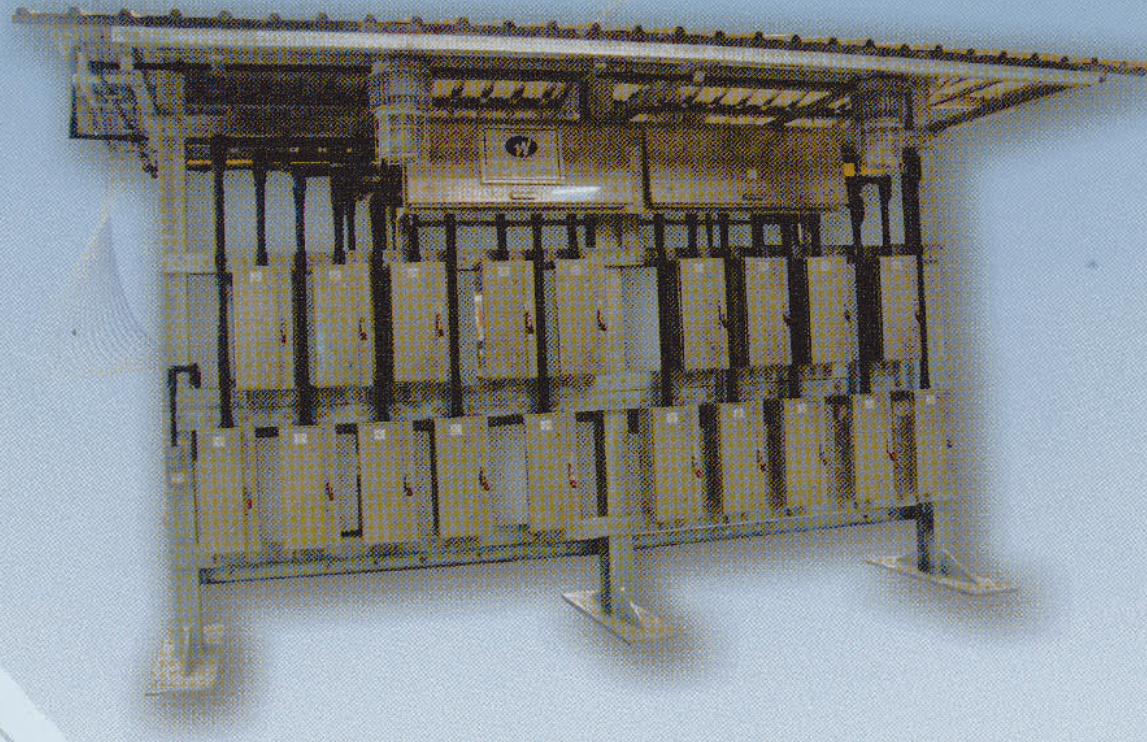


وحدة المقابس الكهربائية:
الاسم: الفرع الصناعية الأولى، ص.ب. 2389، الدمام 31451، المملكة العربية السعودية
هاتف: +966 3 810 0234، فاكس: +966 3 857 7128
البريد الإلكتروني: sbu@wescosa.com
وحدة المحولات:
هاتف: +966 3 847 4242، فاكس: +966 3 847 1684
البريد الإلكتروني: tbu@wescosa.com
وإسكوسا فرع جدة:
هاتف: +966 1 405 3899، فاكس: +966 1 405 7660
وإسكوسا فرع الرياض:
هاتف/فاكس: +966 2 614 1825

Low Voltage

Switchracks & Power Distribution Racks

General Description



Scope:

- Suitable for outdoor installation
- Built using devices complying with either International Electrotechnical Commission (IEC) or North American (NA) based standards.
- Controlling and/or distributing 50 or 60 Hertz three phase power up to 480 volts and/or single phase power up to 277 volts to the following, which include, but is not limited to:
 - a. Induction motors 185kW (250HP) or less.
 - b. Transformers
 - c. Lighting
 - d. Packaged Equipment (e.g. fire pump starters, motor operated valves, HVAC units, etc).

Service Conditions:

WESCO Switchrack when installed outdoors is suitable for continuous operation at an ambient temperature of 50°C.

General:

- All enclosures built by WESCO for housing electric equipment mounted on the Switchrack have been type tested and approved by KEMA, Netherlands in accordance with NEMA 250 standard types 4X. The third party listing labels are provided on each enclosure.
- WESCO Switchrack are constructed in accordance with the latest editions of ANSI/NFPA 70 (National Electric Code).
- All conduit and cable gland connections are threaded. All threading of conduit and cable gland connections are tapered (NPT) in accordance with ANSI/ASME B 1.20.1
- Conduit or cable will terminate into hubs.

Low Voltage

Switchracks & Power Distribution Racks

General Description

Structure:

- WESCO Switchrack are fabricated from standard structural shapes resulting in a self-supporting rigid structure. Material of construction is steel which is hot-dip galvanized after completion of the welding and drilling associated with the fabrication of Switchrack structure.
- Equipment are fastened to the rack with stainless steel or hot-dip galvanized hardware.
- Lifting attachments / connectors are provided for lifting the entire switchracks with canopy attached, without permanent distortion to any part of the structure.

Conductors:

- Phase arrangement of bus and connections are 1, 2, 3 counting from front-to-back, top-to bottom, or left-to-right, as viewed from the front of the switching assembly.
- Cables are run inside rigid steel metal conduits and in some applications armored cables are used without conduits.
- Either explosion proof sealing fittings or explosion proof barriers type cable glands are used for classified area Switchrack according to client specifications.
- All conductors shall be copper.
- Shorting type terminal blocks are provided for current transformer circuit.

Switching and Distribution Devices:

- All switches and circuit breakers connected to the main circuit have the following characteristics:
 - a. Manually operable only with the external compartment door in the closed, secured position for safety with the special feature of defeating by trained personal.
 - b. The center of the grip of the operating handle is within the NEC requirement of 2,000 mm maximum from the base of the Switchrack.
 - c. The operating handle is directly mechanically connected to the switch/circuit breaker irrespective of the position of any compartment doors/covers.
 - d. The operating handle is padlockable in the OPEN (switched off) position.
 - e. It is not necessary to remove the padlock(s) from the operating handle to open or close the associated compartment doors/covers.
 - f. There is external indication to show the operating handle position.

Metering & Accessories:

- Metering is provided as indicated on the customer requisition.

Utilities & Welding:

- Receptacles are provided as per customer need.
- High pressure Sodium type Switchrack lighting fixture(s) are provided in a vertical plane, a minimum illumination level of 50 lux (5 foot-candles) at any manually operable device.
- The Switchrack lighting is controlled via photoelectric switch (photocell) with an inherent time delay to prevent superfluous operation and Hand-Off-Auto Selector Switch.

Grounding (Earthing):

- The Switchrack is designed to accommodate two 2-hole compression connectors, one at each end of the Switchracks structure.