

# Custom Switchracks:

## Built to Comply with ATEX/IEC Standards and Certifications

### From Design to Installation, Manufactured Switchracks to Your Specifications

ATEX/IECEX:  
Zones 0, 1 and 2 – 20, 21 and 22

Designed for safety and performance and built to customer specifications. Every switchrack offers an innovative, unique solution to the challenges of complex motor control localization. Our custom switchracks for CENELEC/IEC governed locations comply with Directive 94/9 EC and Directive 99/92 CE. Both important European directives concerning electrical equipment for potentially explosive atmospheres.

We have developed our capabilities with attention to the customer's key concerns:

- Custom Design
- Quality Components
- Turnkey Fabrication
- Guaranteed Satisfaction

#### Customer Design

- The demands of your application are unique. Your switchrack should be too. That's why our engineers use your specifications and engineering drawings as well as all applicable codes and standards to design your custom switchrack solution. It's the only way to guarantee the switchrack will meet your needs today... and tomorrow.
- Through experience, we have learned the value of staying on the cutting edge of design technology. The company's AutoCad workstations allow design files to be shared with your in-house engineers for quick revisions. This saves time and money and it means your switchrack will be up and running faster.

#### Quality Components

- Appleton stocks one of the most extensive lines of adverse environment enclosures and accessories in the electrical industry to ensure prompt turnaround of every switchrack order.
- Rigid quality standards mean our components stand up to the harshest applications. Only the highest grade steel and aluminum is used in construction. Testing prior to installation guarantees the quality you expect.

#### Turnkey Fabrication

- Every switchrack is engineered, fabricated and assembled in-house by qualified technicians. This single-source approach allows us complete control over the manufacturing process.
- Following a series of rugged performance examinations, each switchrack is shipped via Exclusive Use Carrier for immediate field installation.

#### Guaranteed Satisfaction

- Appleton's involvement doesn't end with the purchase order. The company backs its switchracks with an exclusive factory warranty. Should any component fail due to mechanical or electrical defect, we will replace the part for up to one year following installation, or 18 months after shipment.

#### Application

- Switchracks provide complete motor control assemblies in one integrated package. Choose the necessary components to fit the rating, electrical switching and controlling requirements.
- Switchracks are available for Zones 0, 1 and 2 and 20, 21 and 22 gas and dust environments. Built for indoor and/or outdoor locations.
- Determine hazardous areas
- Defining Zone boundaries - volumes
  - If necessary, delimiting Zones
- Know the characteristics of flammable substances present on the site



- Defining the Temperature Class and the explosion group of the equipment
- Choose equipment depending on :
  - the Temperature Class and the explosion group,
  - environmental constraints specific to the site - corrosion, exposure to UV, mechanical strength,
  - protection indexes

#### Features

- Single source responsibility, including engineering, designing, wiring and testing of all components.
- Fabricated and wired to custom specifications.
- Only job site requirements are connection of incoming power to the main bus and load side connections.

#### Optional Components

- Circuit breakers
- Motor starters
- Contactors
- Junction boxes
- Control stations
- Meter/instrument enclosures
- Ground detection
- Panelboards
- Receptacles
- Photo cells
- Light fixtures
- Transformers

#### Standard Materials

- Structure: steel-painted, steel-galvanized or aluminum.
- Bus duct/conduit: steel-painted, galvanized aluminum or stainless steel.
- Canopy/roof: steel-galvanized or aluminum.

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### Customer Information

Date:	_____	Quote Number:	_____
Customer:	_____	Revision:	_____
Location:	_____	Project Name:	_____

Area Classification							
<b>Zone</b>	<input type="checkbox"/> Zone 1	<input type="checkbox"/> Zone 2	<input type="checkbox"/> Zone 21	<input type="checkbox"/> Zone 22			
<b>Group</b>	<input type="checkbox"/> Group IIA	<input type="checkbox"/> Group IIB	<input type="checkbox"/> Group IIC				
Certifications							
<b>Certifications</b>	<input type="checkbox"/> IEC	<input type="checkbox"/> IECEX	<input type="checkbox"/> ATEX				
Power Source							
<b>Voltage</b>	<input type="checkbox"/> 120 Vac	<input type="checkbox"/> 240 Vac	<input type="checkbox"/> 380 Vac	<input type="checkbox"/> 480 Vac	<input type="checkbox"/> 575 Vac	<input type="checkbox"/> 600 Vac	
<b>Phase</b>	<input type="checkbox"/> Single	<input type="checkbox"/> Three	<b>Hertz</b>		<input type="checkbox"/> 50 Hz	<input type="checkbox"/> 60 Hz	
Structure							
<b>Material</b>	<input type="checkbox"/> Steel-Painted	<input type="checkbox"/> Aluminum					
<b>Design</b>	<input type="checkbox"/> Single Sided	<input type="checkbox"/> Double Sided	<input type="checkbox"/> Single Row	<input type="checkbox"/> Double Row			
Bus Ducts						<input type="checkbox"/> Required	<input type="checkbox"/> Not Required
<b>Material</b>	<input type="checkbox"/> Steel-Painted	<input type="checkbox"/> Steel-Galvanized	<input type="checkbox"/> Aluminum	<input type="checkbox"/> Stainless Steel			
<b>Certification</b>	<input type="checkbox"/> IEC	<input type="checkbox"/> IECEX	<input type="checkbox"/> ATEX				
<b>Type</b>	<input type="checkbox"/> Single Access	<input type="checkbox"/> Dual Access					
<b>Cooper Bus Plating</b>	<input type="checkbox"/> Silver	<input type="checkbox"/> Tin					
<b>Bracing</b>	<input type="checkbox"/> 14,000 AIC	<input type="checkbox"/> 22,000 AIC	<input type="checkbox"/> 25,000 AIC	<input type="checkbox"/> 42,000 AIC	<input type="checkbox"/> 65,000 AIC	<input type="checkbox"/> 100,000 AIC	
<b>Options</b>	<input type="checkbox"/> Insulated	<input type="checkbox"/> Silver Plated	<input type="checkbox"/> Tin Plated	<input type="checkbox"/> PEM Inserts	<input type="checkbox"/> Glyptol	<input type="checkbox"/> Weep Holess	
	<input type="checkbox"/> Space Heater	<input type="checkbox"/> Thermostat	<input type="checkbox"/> Drains				
Corrugated Canopy Material						<input type="checkbox"/> Required	<input type="checkbox"/> Not Required
	<input type="checkbox"/> Steel-Galvanized	<input type="checkbox"/> Aluminum	<input type="checkbox"/> Fiberglass Reinforced Polyester (FRP)				
Conduit and Fittings							
	<input type="checkbox"/> Galvanized	<input type="checkbox"/> Aluminum	<input type="checkbox"/> PVC Coated	<input type="checkbox"/> Drain Seals			
Wire Type — Copper, +90 °C (+194 °F)							
<b>Insulation</b>	<input type="checkbox"/> XLPE	<input type="checkbox"/> EPR	<input type="checkbox"/> PVC				
Component Requirements							
<b>Manufacturer</b>	<input type="checkbox"/> General Electric	<input type="checkbox"/> Square D	<input type="checkbox"/> Cutler-Hammer	<input type="checkbox"/> Allen-Bradley	<input type="checkbox"/> Other		
<b>Circuit Breaker</b>	<input type="checkbox"/> Thermal-Mag	<input type="checkbox"/> Mag-Only	<input type="checkbox"/> Non-Auto	<input type="checkbox"/> Other			

Appleton®

DISTRIBUTION EQUIPMENT: ATEX/IECEX SWITCHRACKS

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Component Accessories						
<input type="checkbox"/> Fuses	<input type="checkbox"/> Thermal Board	<input type="checkbox"/> Relays	<input type="checkbox"/> Breather/Drain	<input type="checkbox"/> Stop Push Button	<input type="checkbox"/> Start Push Button	<input type="checkbox"/> HOA Switch
<input type="checkbox"/> Name Plate	<input type="checkbox"/> Red Light	<input type="checkbox"/> Green Light	<input type="checkbox"/> CPT	<input type="checkbox"/> 100 Vac Extra	<input type="checkbox"/> Ring Terminal	<input type="checkbox"/> Wire Markers
<input type="checkbox"/> AUX. Contact N.O., N.C.	<input type="checkbox"/> Space Heater	<input type="checkbox"/> Copper Lugs	<input type="checkbox"/> Surge Protector	<input type="checkbox"/> Hi-Break Circuit Breaker		
Optional Components						

Please provide a list of items (including your company's specifications) that the rack will support including quantities and sizes:

Motor Starters: \_\_\_\_\_

Lighting: \_\_\_\_\_

Breakers: \_\_\_\_\_

Transformers: \_\_\_\_\_

Receptacles: \_\_\_\_\_

Ground Indicators: \_\_\_\_\_

Panelboards: \_\_\_\_\_

Control Stations: \_\_\_\_\_

Disconnect Switches: \_\_\_\_\_