From Design to Installation, Appleton is The Switchrack Authority

NEC/CEC: Suitable for use in Class I, Division 1 and 2 Locations

With over 80 years in the industry, Appleton is one of the first and the most respected names in custom switchracks for hazardous and adverse locations. Designed for safety and performance, they are built to customer specifications. As a result, every Appleton switchrack offers an innovative, unique solution to the challenges of complex motor control localization.

Beginning in 1935, Appleton has developed its capabilities with attention to the customer's key concerns:

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

Together, these qualify Appleton as the Switchrack Authority. It is a hard-earned reputation the company is committed to uphold.

Customer Design

- The demands of your application are unique. Your switchrack should be too. That's why Appleton 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, Appleton has 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

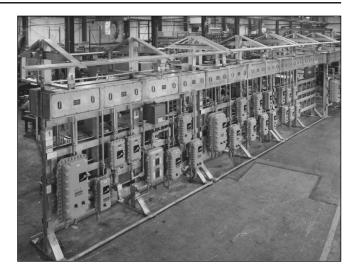
- Appleton stocks one of the most extensive lines of adverse environment enclosures and accessories in the electrical industry to ensure prompt turnaround of every switchrack order.
- Rigid quality standards mean Appleton components stand up to the harshest applications. Only the highest grade steel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

Turnkey Fabrication

- Every Appleton switchrack is engineered, fabricated and assembled in-house by qualified technicians. This singlesource approach allows Appleton complete control over the manufacturing process.
- Following a series of rugged performance examinations, each Appleton 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 Appleton component fail due to mechanical or electrical defect, Appleton will replace the part for up to one year following installation, or 18 months after shipment.



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Application

 Appleton switchracks provide complete motor control assemblies in one integrated package. Choose the necessary Appleton components to fit the rating, electrical switching and controlling requirements.

Features

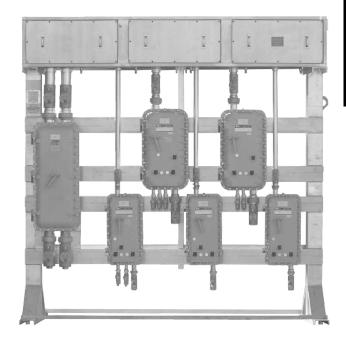
- Single source responsibility, including engineering, designing, wiring and testing of all components.
- Fabricated and wired to custom specifications.
- Only job site requirements are connection of incoming power to the main bus and load side connections.
- UL Listed bus up to 1500 Amp. For larger requirements, please contact your local representative.
- Heavy grade steel or aluminum frame with all welded construction.

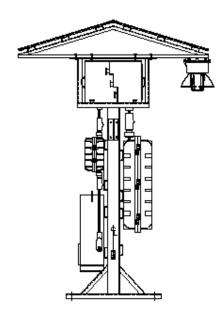
Optional Components

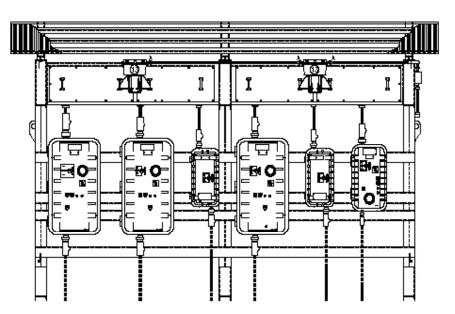
- Circuit breakers
- Motor starters
- Contactors
- Junction boxes
- Control stations
- · Meter/instrument enclosures
- Ground detection
- Panelboards
- Welding and convenience receptacles
- Photo cells
- Light fixtures
- Transformers

Standard Materials

- Structure: galvanized steel or aluminum
- Bus duct: galvanized steel, aluminum or stainless steel
- Corrugated canopy: galvanized steel or aluminum









Custom Switchrack Data Sheet

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Customer Information	on								
Date:							Quote Number:		
Customer:							Revision:		
Location:							Project Name:		
				Area	a Classification				
Class I		Division 1	Division 2		Group		В	С	□ D
Class II		Division 1	Division 2		Group		E	□F	☐ G
Unclassified		Outdoor	Indoor						
				P	ower Source				
Voltage		120 Vac	240 Vac		380 Vac		480 Vac	☐ 575 Vac	☐ 600 Vac
Phase		Single	Three						
Wire		3	4						
					Structure				
Material		Steel- Galvanized	Aluminum						
Design		Single Sided	Double Sided		Single Row		Double Row		
					Bus Ducts			☐ Required	☐ Not Required
Amp Rating		250 Amp	500 Amp		750 Amp		1000 Amp	☐ 1250 Amp	☐ 1500 Amp
Material		Stainless Steel	Steel- Galvanized		Aluminum				
Certification		UL	Non-UL		NEMA 3R		NEMA 4	☐ NEMA 4X	
Туре		Single Access	Dual Access						
Copper Bus Plating		Silver	Tin						
Bracing		14,000 AIC	22,000 AIC		25,000 AIC		42,000 AIC	☐ 65,000 AIC	☐ 100,000 AIC
Options		Insulated	PEM Inserts		Weep Holes				
		Space Heater	Thermostat		Drains				
			Corru	ugat	ted Canopy Materia	al		Required	☐ Not Required
		Steel- Galvanized	Aluminum						
			C	onc	duit and Fittings				
		Galvanized	Aluminum		PVC Coated		Drain Seals		
			Wire Type	_	Copper, +90 °C (+	194	°F)		
Insulation		THW	THHN		THWN		THH	RHH	RHW
		XHHW	XLPE		SIS				



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Component Requirements												
Manufacturer		General Electric		Square D		Cutler- Hammer		Allen-Bradley		Other		
				Co	mpo	nent Accessories						
☐ Fuses		Thermal Board		Relays		Breather/Drain		Stop Push Button		Start Push Button		HOA Switch
■ Name Plate		Red Light		Green Light		CPT		100 Va Extra		Ring Terminal		Wire Markers
□ AUX. Contact N.O., N.C.		Space Heater		Copper Lugs		Surge Protector		Hi-Break Circuit Breaker				
				0	ptio	nal Components						
Please provide a list of	f iter	ms (including yo	ur c	ompany's specif	ficati	ons) that the rac	ck w	ill support includ	ding	quantities and	sizes	3:
Motor Start	ers:											
Lighting:												
Lighting.												
Breakers:												
- -												
Transformers:												
Decentrales												
Receptacles:												
Ground Indicate	ors:											
Panelboards:		-										
Control Statio	no:											
Control Static) IS:											
Disconnect Switch	nes:											

Estimating Custom Switchrack Weight

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Add device weight and structure weight from the following tables:

Combination Starters

Size	Bolted Weight kg (lb)	Threaded Weight kg (lb)
1	56.7 (125)	31.8 (70)
2	59.0 (130)	49.9 (110)
3	88.5 (195)	59.0 (130)
4	90.7 (200)	61.2 (135)
5	254.0 (560)	224.5 (495)
6	362.9 (800)	Not Available

Transformers

1 Phase	2 Phase	Weight kg (lb)
5 kVA	6 kVA	54.4 (120)
10 kVA	9 kVA	106.6 (235)
15 kVA	15 kVA	136.1 (300)
25 kVA	30 kVA	299.4 (660)
	45 kVA	340.2 (750)

Circuit Breakers

Size	Bolted Weight kg (lb)	Threaded Weight kg (lb)
EA 150 AF/50AT	15.0 (33)	18.1 (40)
EB 150 AF/100AT	17.2 (38)	18.1 (40)
EC 150 AF/150AT	43.5 (96)	39.9 (88)
EE 225 A Frame	45.8 (101)	95.3 (210)
EF 400 A Frame	66.7 (147)	Not Available
ED 600 A Frame	99.8 (220)	99.8 (220)
EL 800 A Frame	154.2 (340)	Not Available
EG 1200 A Frame	256.3 (565)	Not Available

Structure

Switchrack Type	Aluminum kg (lb)	Steel kg (lb)	Weight per
Division 2, Single Row	22.7 (50)	45.4 (100)	Foot
Division 2, Double Row	29.5 (65)	59.0 (130)	Foot
Division 1, Single Row	22.7 (50)	45.4 (100)	Foot
Canopy, Corrugated	11.3 (25)	22.7 (50)	Foot
Incoming End Cable Box	22.7 (50)	45.4 (100)	Each

Miscellaneous Items

Description	Weight kg (lb)
12 Circuit LTG Panelboard	83.9 (185)
18 Circuit LTG Panelboard	88.5 (195)
24 Circuit LTG Panelboard	127.0 (280)
30 Circuit LTG Panelboard	131.5 (290)
HPS Light Fixture	11.3 (25)
120 Vac Receptacle	4.5 (10)
60 AMP Welding Receptacle	13.6 (30)
Photocell, 120 Vac	2.3 (5)

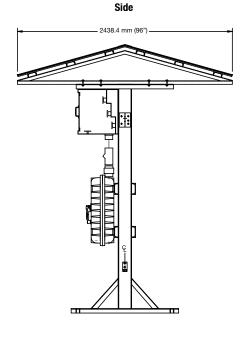


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Typical Single Access, Single Sided, Single Row Switchrack with Canopy Dimensions in Millimeters (Inches)

3048.0 mm (120")



Typical Dual Access, Double Sided, Double Row Switchrack With Canopy

