Engineered solutions

Cl. I, Div. 1 & 2, Groups A, B, C, D
Cl. II, Div. 1 & 2, Groups E, F, G
Cl. III
NEMA 3, 4, 4X, 7BCD, 9EFG, 12

Explosionproof
Dust-ignitionproof
Raintight
Wet locations
Watertight

Applications:

- Custom engineered solutions for a wide variety of industrial and commercial applications
- Hazardous and non-hazardous products engineered to application-specific designs and customer requirements

Capabilities:

- Product selection and application-specific support, including recommendations for material selection, ratings and protection
- Project bid support
- Engineering design services
- Custom product design
- Value-add packages for: ease of installation, ease of maintenance, labor savings, integrated packages and portable products

Certifications and compliances[A]:

NEC:

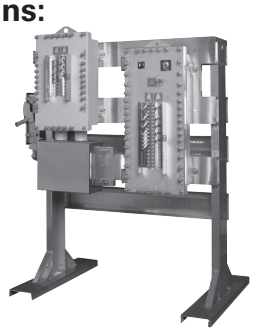
- Class I, Divisions 1 & 2, Groups A, B, C, D
- Class II, Divisions 1 & 2, Groups E, F, G
- Class III

Environmental ratings:

- NEMA 3, 3R, 4, 4X, 7BCD, 9EFG, 12

Ease of installation solutions:

- Rack assemblies – control, distribution, protection, monitoring
- Skid assemblies
- Pre-wired products

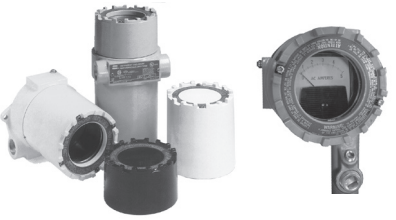


Labor saving solutions:

- Product sub-assemblies and sub-systems
- Pre-fixtured products, pre-terminated cables, plugs, fittings and glands

Integrated solutions:

- Enclosed metering and instrumentation
- Component populated enclosures
- Custom machining, painting and legend
- Installed fittings and seals



Portable solutions:

- Power distribution
- Lighting products
- Plugs
- Protection equipment

Interested in a custom engineered product? Contact your local Eaton's Crouse-Hinds sales representative to see how we can design a solution for you. Fill out the request form on the following page to receive a custom quote for your inquiry.

[A] Ratings may not be available or relevant for every proposal.

Request a quote

Customer: _____
Project: _____
Prepared By: _____
Quotation For: ☐ Estimate/Budget ☐ Bid
Quotation Required By (Date): _____

Engineering Firm: _____
Location: _____
Date: _____
☐ Immediate Buy
Material Required By (Date): _____

Is a current copy of plant STDS/SPECS available to Eaton's Crouse-Hinds? _____

Area Classification:

HAZARDOUS - Circle all that apply:

☐ Class I ☐ Div. 1 ☐ Div. 2
Groups A, B, C, D ☐ B ☐ C ☐ D

☐ Class II ☐ Div. 1 ☐ Div. 2
Groups E, F, G ☐ E ☐ F ☐ G

☐ Class III

NON-HAZARDOUS

☐ Ordinary Locations

NEMA Rating ☐ 3R ☐ 4 ☐ 4X

Dimension Restrictions:

☐ Width _____ ☐ Height _____
☐ Depth _____

Service System: *(i.e. 480V, 3PH, 3W, 60 Hz)*

____ VOLT ____ PH ____ W ____ HZ ____ AMP

Products Involved *(Select all that apply):*

☐ Control & Apparatus
☐ Fittings & Glands
☐ Lighting
☐ Plugs & Receptacles
☐ Commercial Products
☐ Other

Description: _____

_____

_____

_____

_____

_____

_____

_____

Please attach any supporting documentation to this form, including: sketches, single line diagrams, drawings, bill of materials, specifications, etc.

CONTACT: E-mail: crousecustomerctr@eaton.com
Phone: (866) 764-5454

Switch rack assemblies

Cl. I, Div. 1 & 2, Groups B, C, D
Cl. II, Div. 1, Groups E, F, G
Cl. II, Div. 2, Groups F, G
Cl. III
NEMA 3, 4X, 7BCD, 9EFG, 12

Explosionproof
Dust-ignitionproof
Raintight
Wet locations
Watertight

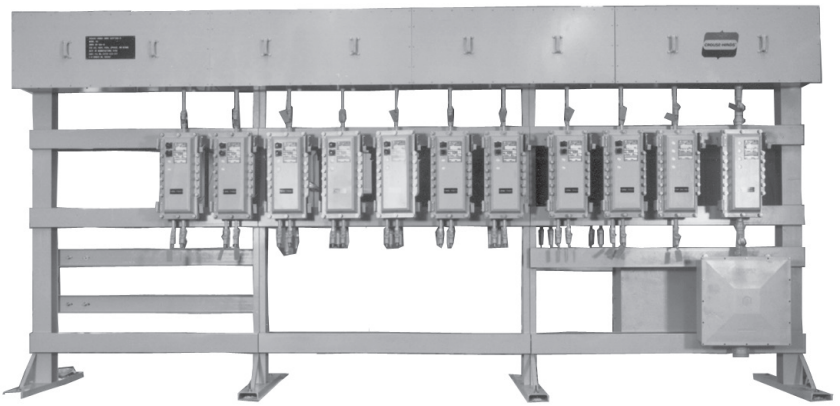
Applications:

Free standing switch rack assemblies are used:

- To provide a complete motor control center in one integrated package
- Outdoors and indoors
- In damp, wet or corrosive locations, such as sewage treatment plants, lumber mills, marine installations and food preparation areas
- In areas made hazardous due to the presence of flammable vapors or gases, such as petroleum refineries, chemical and petrochemical plants, gas gathering plants, pipeline compressor stations and drilling rigs, both onshore and offshore
- In areas where hazardous dusts are present, such as coal handling facilities, grain processing and handling plants and certain food process industries

Features:

- Complete factory assembled and wired switch racks
- Pre-drilled bus boxes allow for quick and easy changing or adding of components
- Complete assembly covered under one order eliminates engineering costs, additional costs of placing separate orders with several vendors for various components, and assembly and scheduling problems at job site
- Wiring is simple; after switch rack is in place, feeders are connected to the main bus and connections made from starters motors; no other field wiring is necessary
- Maintenance time and costs are reduced by having controls grouped; work is performed in one location instead of moving from one control to another in various locations
- Major components are standard EBM, EPC, NMC, NMG, NCB, FLB, D2PB, EXD, D2D, EPL and D2L enclosures featuring ready access to starters and breakers for inspection and maintenance
- Custom-built racks to meet your exact requirements are an Eaton's Crouse-Hinds specialty; complete quotations will be supplied for any job, large or small (38' length maximum)



Certifications and compliances:

NEC:

- Class I, Divisions 1 & 2, Groups C, D (Group B optional)
- Class II, Division 1, Groups E, F, G
- Class II, Division 2, Groups F, G
- Class III

Environmental ratings:

- NEMA 3, 4X (optional), 7B (optional) CD, 9EFG, 12

Standard materials:

- Rack frames – structural steel or aluminum channel members, bolted and welded
- Components – see individual catalog sections for materials

Standard finishes:

- Rack frame – hot dip galvanized steel or natural aluminum
- Components – see individual catalog sections for finishes

Options:

- Rack frame finish – corrosion-resistant primer with air dry epoxy
- Options listed for individual components can be incorporated in complete switch racks

Construction:

General:

- All construction to be in accordance with current National Electrical Code (NEC), National Electrical Manufacturers' Association (NEMA) and state and local standards as designated by the purchaser
- All hazardous area enclosures for motor starters, combination motor starters, circuit breakers, motor circuit protectors, instrument enclosures, panelboards, main bus, fittings, receptacles and lighting fixtures shall be made and supplied by the manufacturer
- All explosionproof threaded enclosures for combination starters, circuit breakers, motor circuit protectors and starters shall be UL classified
- All other standard hazardous area enclosures shall be UL Listed or UL classified
- Manufacturer shall retain permanent records of all motor control racks and shall have the capability of duplicating, or replacing, any fully assembled rack or rack component
- Manufacturer to assume responsibility for construction, purchase/manufacturer of components, complete circuit continuity testing and testing of mechanical functions of components

Rack frame design:

Structure:

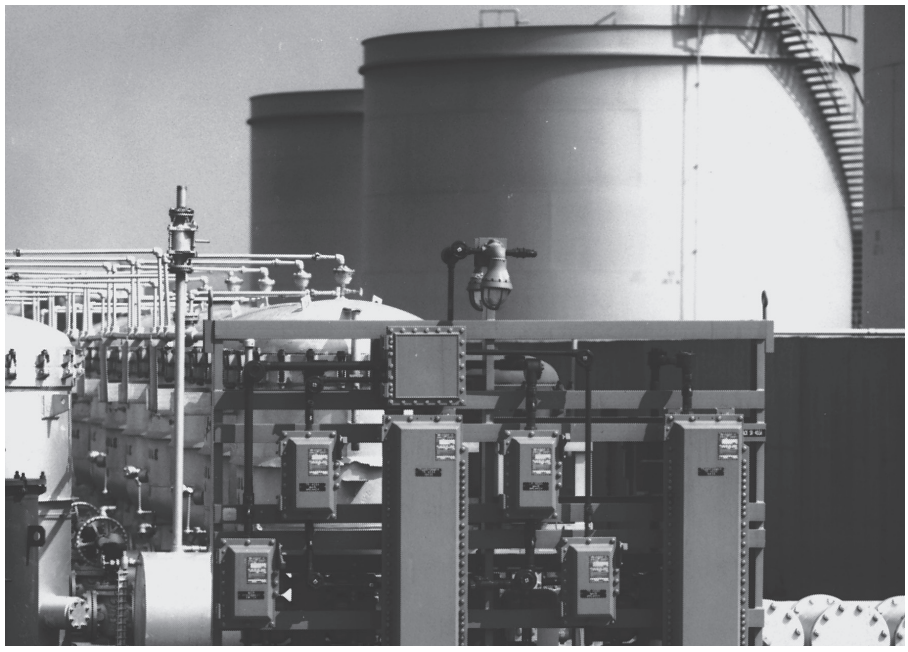
- Switch rack, either single or double face as required, shall be rigid, free standing structures; racks shall be factory welded, assembled and fabricated from standard rolled structural steel or aluminum shapes
- Vertical risers will be 6" I-beam and horizontal members shall be 6" channel
- Mounting feet shall be 6" channel; width of such feet for single-sided racks shall be 41 inches
- End mounting feet will be braced (welded) to the upright with 6" T member
- Mounting feet shall be anchored at the job site with 1" diameter bolts; anchor bolts and mounting pads will be the responsibility of the user
- Maximum horizontal spacing between mounting legs shall not exceed 6 feet (specific dimensions to be determined by the manufacturer)
- Racks longer than 20 feet will be supplied as bolt together sections (specific section dimensions to be determined by the manufacturer)

Grounding:

- A pressure-type grounding lug with appropriate wire capacity will be provided at each end of frame

Finish:

- Rack frame shall be hot dip galvanized after fabrication or natural aluminum



Eaton's Crouse-Hinds switch rack installed in a fuel storage area

Main bus equipment:

Class I, Division 1:

- Main bus material shall be copper only and capable of withstanding up to 65K amperes fault current. Cable bus will be wired to terminal blocks enclosed in cast copper-free aluminum, explosionproof junction boxes, Eaton's Crouse-Hinds series EJB. Such junction boxes for incoming power and distribution wiring shall be provided at either the top or bottom of the rack. Enclosures shall be connected by rigid conduit with conduit seals installed in accordance with the NEC. Load conduit or cable will leave rack either below or above. Manufacturer shall provide conduit layouts.

Class I, Division 2:

- Main bus material shall be copper only and capable of withstanding up to 65K amperes fault current. Cable bus will be wired to terminal blocks enclosed in cast copper-free aluminum weathertight junction boxes, Eaton's Crouse-Hinds series WJB. Such junction boxes for incoming power and distribution wiring shall be provided at either the top or bottom of the rack. Enclosures shall be connected by rigid conduit with conduit seals installed as required by the NEC. Load conduit or cable will leave rack either below or above. Manufacturer shall provide conduit layouts.

Bus duct in lieu of junction boxes (optional):

- Cable bus will be wired to a weathertight bus duct provided at the top or bottom of the rack

Canopy (optional):

- Single- or double-pitched canopy shall have minimum 15° pitch with a minimum 7'6" ground clearance, and 2 foot overhang
- Roofing material shall be corrugated aluminum
- Canopy roof trusses, cross channels, roof material and mounting hardware shall be shipped unassembled for quick assembly at the job site
- All holes in structure shall be provided, except for roof mounting holes, which will be drilled in the field
- Manufacturer will supply drawings and material for complete field assembly of canopy

Motor control components:

Explosionproof quick opening enclosures:

- All circuit breakers, motor circuit protectors and combination or across-the-line motor starters shall be enclosed in quick opening enclosures (Eaton's Crouse-Hinds series EBM or EPC)

Types:

- Ground joint bolted cover enclosure shall be Eaton's Crouse-Hinds series EBM, UL classified for use in Class I, Divisions 1 and 2, Groups C, D; Class II, Divisions 1 and 2, Groups E, F, G; and Class III hazardous locations, and shall also be suitable for Type 3, 3R and/or Type 4 (NEMA 3, 3R and 4) areas
- All enclosures shall be cast of a corrosion-resistant copper-free aluminum alloy (less than 0.4% copper), and shall be of a semi-clamshell design with external flange to promote ease of apparatus installation, adjustment and maintenance. Most importantly, enclosure inside dimensions shall conform to the wire bending space requirements of the National Electrical code NFPA70 paragraph 373-6. Enclosures with flat covers, internal flanges or those not conforming to NFPA70 paragraph 373-6 are not permitted.
- Covers shall be hinged on the left side and, when closed, shall be affixed top the body by multiple lead thread bolts to promote quick opening and closing of the enclosure
- Cover bolts shall be hex head stainless steel without screwdriver slots, to promote the use of a socket or wrench for proper tightening. They shall be captive to the cover and stainless steel spring loaded to indicate the fully unthreaded position. Spring loading shall give visual indication that the bolts are free of the body when the cover is being opened. The cover flange ground joint shall have an integral gasket to prevent the entry of windblown dust, rain or sleet.
- All enclosures shall be fitted, as standard, with adjustable, extended, corrosion-resistant copper-free aluminum hinges that shall allow the cover to swing away from the body when opened and shall permit unobstructed working space for maintenance, adjustment or replacement of the internal apparatus. Additionally, these hinges shall allow minimum enclosure-to-enclosure spacing with little interference between an open cover and an adjacent enclosure. Enclosures with hinges fabricated from steel or aluminum stampings shall not be permitted.
- All enclosures shall be provided with drilled, tapped and plugged conduit entrances suitably sized for the electrical application. Power conduit entrances shall be located one (or two) each on (or equally spaced from) the enclosure vertical centerline at top and bottom. A single, plugged 1" entrance for a control conduit shall be provided at the bottom of the enclosure. (Some enclosures can also be provided with a plugged 1" entrance for control conduit at the top).
- All conduit entrances shall be furnished with removable copper-free aluminum reducers, each with integral wire pulling bushing. All conduit entrances shall be located the same distance from the enclosure mounting surface to facilitate conduit run layout and/or stub up construction.
- All enclosures shall have rugged, cast copper-free aluminum circuit breaker and motor starter overload reset operating handles located on the right side of the enclosure. These handles shall operate the internal mechanisms via stainless steel, gasketed shafts and bearings through the side wall of the body. Correct circuit breaker and overload reset operation shall be visually confirmed with the cover open.
- Circuit breaker handles shall be padlockable in either the "OFF" or "ON" position, and shall be trip-free of the circuit breaker itself. An attached indicating plate shall give clear, visual confirmation of the circuit breaker status.
- Adjustable circuit breaker handle stops shall be provided to ensure full operation of the circuit breaker and to prevent handle overthrow that could damage the circuit breaker toggle.
- Motor starter overload reset operating mechanisms shall be field adjustable
- Threaded construction enclosures shall be Eaton's Crouse-Hinds series EPC, UL classified for use in Class I, Divisions 1 and 2, Groups C, D; Class II, Divisions 1 and 2, Groups E, F, G; and Class III hazardous locations, and shall also be suitable for Type 3, 3R and/or Type 4 (NEMA 3, 3R and 4) areas
- All enclosures shall be cast of a corrosion-resistant copper-free aluminum alloy (less than 0.4% copper), and shall be of a three section design. Multiple start straight buttress threads between the covers and the body shall ensure quick access to the interior in less than two full turns of the covers. A system of stops shall prevent overtightening and thread seizing. A system of locks shall prevent covers from loosening due to external vibration.
- Female threads on the top cover with male threads on the bottom cover shall ensure inherent water and rain shedding
- All exposed screws, bolts and hardware shall be stainless steel
- The external circuit breaker operating handle, affixed to a stainless steel shaft, shall be padlockable in either the "ON" or "OFF" position with up to three padlocks. Circuit breaker mechanisms shall be trip-free of the circuit breaker itself to allow the circuit breaker to open under overload conditions even if it is locked in the "ON" position.
- The mounting bracket shall provide a three-point suspension system for quick installation and adjustment
- Conduit entrances shall have integral wire pulling bushings and conduit stops. These openings shall be arranged two at the top and two at the bottom and shall be sized for power and control requirements.

General:

- All enclosures shall be bolted to the horizontal frame members on either the front or back or both front and back. Enclosures shall be connected to the main bus via conduit seals (to be field poured). All hardware used to mount the enclosures shall be stainless steel.

Lighting panelboards:

Class I, Division 1:

- Panelboards shall be Eaton's Crouse-Hinds series factory sealed EXD or EPL as specified, and shall meet the following electrical ratings:

  EPL – 1-, 2- or 3-pole, 240 volt maximum, 100 amperes maximum branch trip rating, 10,000 AIC

  EXD – 1-, 2- or 3-pole, 600 volt maximum, 100 amperes maximum branch trip rating

Class I, Division 2:

- Lighting panelboard shall be Eaton's Crouse-Hinds series factory sealed D2L 120/240 volt panelboards, and be provided with single-pole, two-pole or three-pole branch circuit breakers with up to 100 amperes trip rating. Main breaker ranging to 225 amperes. Similarly, lighting panelboard shall be factory sealed D2PB 120/240 volt panelboards and be provided with single-pole or two-pole factory sealed circuit breakers with 15, 20 or 30 amperes trip ratings and maximum 10,000 AIC. Power panelboards shall be factory sealed D2D, up to 600 volt, and provided with single-pole, two-pole or three-pole branch circuit breakers with up to 100 amperes trip ratings; main breaker rating to 225 amperes.

NEMA 4X option:

- All bus boxes, control enclosures and lighting panelboards will be made of Krydon material to meet NEMA 4X requirements

Fittings:

- All fittings shall be made and provided by the manufacturer. Seals and unions will be provided for each incoming and outgoing conduit as required. All interconnections between components shall be done by the manufacturer with galvanized rigid conduit, and conduit fittings as required to meet the hazardous classification. Interconnecting conduits to be provided with conduit seals as required. All incoming and outgoing rack conduit entrances shall include conduit seals as required by the hazardous location specified. Such seals will be provided by the manufacturer and will not be filled where field wiring is to be introduced.

Conduit boxes, outlet boxes, device boxes:

- Conduit boxes, outlet boxes and device boxes shall be Eaton's Crouse-Hinds series Condulet® fittings

Seals:

- Seals will be standard Eaton's Crouse-Hinds series Condulet EYS (Eaton's Crouse-Hinds series Condulet EYD drains to be specified as required)

Unions:

- Unions will be Eaton's Crouse-Hinds series UNY

Breathers and drains:

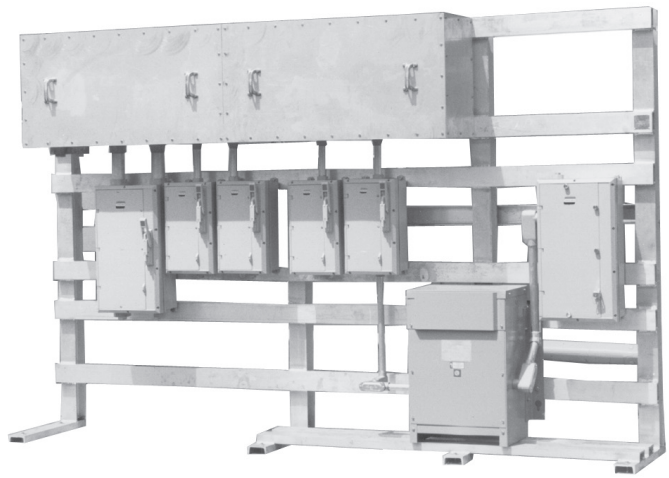
- Breathers and drains shall be Eaton's Crouse-Hinds series ECD

Wiring:

- Standard wire shall be copper only, 600 volt, 75°C minimum rating, UL listed
- No power wire less than 12 AWG shall be used
- Control wire shall be 14 AWG minimum, 7 strands, THW minimum
- Wiring shall be sized in accordance with NEC requirements

Drawings:

- Standard drawings supplied for customer approval shall include complete rack wiring diagram, component data, nominal weight of the rack and overall rack dimensions



Switch rack assemblies

Selection guide

Cl. I, Div. 1 & 2, Groups B, C, D
Cl. II, Div. 1, Groups E, F, G
Cl. II, Div. 2, Groups F, G
Cl. III
NEMA 3, 4X, 7BCD, 9EFG, 12

Explosionproof
Dust-ignitionproof
Raintight
Wet locations
Watertight

Customer: _____ **Engineering firm:** _____

Project: _____ **Location:** _____

Prepared by: _____ **Date:** _____

Quotation for: ☐ **Estimate/budget** ☐ **Bid** ☐ **Immediate buy**

Interested in highly reliable, comprehensive communications that will improve the operating efficiency of your facility? See additional information at the end of this guide.

Is a current copy of plant STDS/SPECS available to Eaton's Crouse-Hinds Division? _____

7C

AREA CLASSIFICATION:

Hazardous *(circle all that apply):*

- ☐ Class I (Division 1 or 2, Groups B, C, D)
- ☐ Class II (Division 1 or 2, Groups E, F, G)
- ☐ Class III

Non-hazardous:

- ☐ Ordinary locations
- ☐ NEMA 3R, 4, 4X *(circle one)*

STRUCTURAL FRAME:

Material:

- ☐ Steel
- ☐ Aluminum
- ☐ Single face (components on ONE side only)
- ☐ Double face (components on BOTH sides)
- ☐ Other _____
- ☐ Percent spare space (%) _____

Finish:

- ☐ Hot dip galvanized
- ☐ Painted

ROOF CANOPY:

- ☐ Yes
- ☐ No
- ☐ Corrugated aluminum
- ☐ Corrugated fiberglass

ENCLOSURE TYPE:

- ☐ Bolted
- ☐ Threaded
- ☐ Krydon
- ☐ Epoxy coated

DIMENSION RESTRICTIONS:

- ☐ Length
- ☐ Height

SERVICE SYSTEM: *(i.e. 480V, 3PH, 3W, 60 Hz)*

_____ Volt _____ PH _____ W _____ Hz

INCOMING FEEDER REQUIREMENTS:

_____ # Conductors/phase

_____ # AWG/MCM

_____ # Inch conduit (size)

- ☐ Top entry
- ☐ Bottom entry

MAIN BUS ENCLOSURE:

Material:

- ☐ Steel (painted)
- ☐ Aluminum (painted)
- ☐ 316 stainless steel
- ☐ Bus location – top of rack
- ☐ Bus location – bottom of rack
- ☐ Bus bracing (25 kAIC standard) _____
- ☐ Bus amperage _____
- ☐ Other – customer to specify

Main bus characteristics:

Copper bars

- ☐ Bare (standard)
- ☐ Insulated
- ☐ Silver plated
- ☐ Tin plated
- ☐ Power distribution block
- ☐ Ground bus in enclosure

MAIN BREAKER DISCONNECT: *(3C)*

☐ None ☐ Molded case breaker

AIC rating _____

Amp trip (AT) _____ Amp frame (AF) _____

☐ Disconnect switch

_____ Amperage

☐ Fused ☐ Non-fused

EQUIPMENT REQUIREMENTS:

Combination motor starters (1C)

FVNR, reversing, 2-speed *(circle one)*

Qty.

_____ NEMA Size 0 with _____ AT/ _____ AF, _____ MCP

_____ NEMA Size 1 with _____ AT/ _____ AF, _____ MCP

_____ NEMA Size 2 with _____ AT/ _____ AF, _____ MCP

_____ NEMA Size 3 with _____ AT/ _____ AF, _____ MCP

_____ NEMA Size 4 with _____ AT/ _____ AF, _____ MCP

_____ NEMA Size 5 with _____ AT/ _____ AF, _____ MCP

_____ NEMA Size 6 with _____ AT/ _____ AF, _____ MCP

Refer to the Eaton's Crouse-Hinds Division catalog for suggested breaker or motor circuit protector sizing, if not specified above. Eaton will size accordingly.

OPTIONS REQUIRED:

	Yes	No
Fused control transformer (suffix 'FTPS')Ⓐ	_____	_____
Space heaters (suffixes 'R11', 'R22', 'R44')	_____	_____
Start/stop pushbuttons (suffix 'PB23')	_____	_____
Hand-Off-Auto selection switch (suffix 'RR3')	_____	_____
Red indicating light (suffix 'J1')	_____	_____
Green indicating light (suffix 'J3')	_____	_____
Auxiliary contacts (2 N.O./2 N.C.) (suffix 'S782')Ⓐ	_____	_____
Control relay (suffix 'S787')	_____	_____
Breather/drain (suffixes 'S198V', 'S756V')Ⓐ	_____	_____
12-point terminal block (suffix 'S786')Ⓐ; other – specify	_____	_____

FEEDER CIRCUIT BREAKER: *(3C)*

AIC rating _____

Qty.	(AT)	(Specify)
_____	_____	/100/150 AF
_____	_____	/100/150 AF
_____	_____	/225/250 AF
_____	_____	/400 AF
_____	_____	/800 AF
_____	_____	Other

COMPONENT PREFERENCE:

☐ Cutler-Hammer ☐ SQD ☐ A-B ☐ GE

(Cutler-Hammer will be used if no preference is indicated).

DISTRIBUTION TRANSFORMERS:

_____ KVA _____ PH _____ Volt-Pri ___ / ___ Volt-Sec

_____ KVA _____ PH _____ Volt-Pri ___ / ___ Volt-Sec

☐ Copper windings ☐ Stainless steel enclosure

PANELBOARDS: *(1A)*

Power (480V) (D2D, EXD)

☐ Single-phase ☐ Three-phase

Main breaker_____ Pole _____ AT

Branch circuits

Qty.	(AT)	No. poles
_____	_____	_____
_____	_____	_____
_____	_____	_____

Lighting/heat tracing (240/120V) (D2L, EPL, D2PB)

☐ Single-phase ☐ Three-phase

Main breaker_____ Pole _____ AT

Branch circuits

Qty.	(AT)	No. poles
_____	_____	_____
_____	_____	_____
_____	_____	_____

GFI (5 mA)Ⓑ (# required) _____ Amperage rating _____

EPD (30 mA)Ⓑ (# required) _____ Amperage rating _____

Ⓐ Unless specified differently, options furnished standard.

Ⓑ Not available with D2PB panelboards.

LIGHTING CONTACTOR:

☐ Yes ☐ No

No. poles _____ Amperage rating _____

☐ Control power transformer (suffix 'FTPS')

☐ Hand-Off-Auto selector switch (suffix 'RR3')

PHOTOCELL:

☐ Yes ☐ No

LIGHTING FIXTURES: *(1L, 2L, 3L)*

Quantity _____ Type _____

Wattage _____ Voltage _____

RECEPTACLES:

☐ Convenience receptacle

Amps _____ Poles _____ Volts _____

☐ Welding receptacle

Amps _____ Poles _____ Volts _____

Integral circuit breaker

☐ Yes ☐ No

CONDUIT FITTINGS, SEALS, UNIONS:

Plant standard (i.e. Form 7) _____

☐ Iron ☐ Aluminum

Type seals

☐ EYD ☐ EYS ☐ EZD

☐ Other (specify) _____

NOTE: Seals not poured at factory.

CONDUIT:

☐ Rigid galv. steel ☐ PVC coated ☐ Aluminum

CONDUIT:

☐ RHW/RHH ☐ THWN/THHN (C-H std.)

☐ THW ☐ XHHW

☐ Other insulation (specify) _____

SHOP INSPECTION AND TESTS:

☐ Mfr. standard tests

☐ Customer in plant final inspection

☐ Yes ☐ No

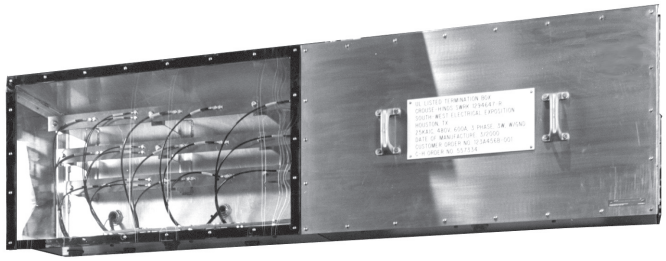
CUtilizing standard Eaton's Crouse-Hinds series NEMA 7 enclosures with specified internal components (mounted on your switch rack), this state-of-the-art technology is available today. IMPACC (Integrated Monitoring Protection and Control Communications) by Cutler-Hammer/Westinghouse is a unique high frequency-based communications system specially designed for electrical distribution and control applications. Providing real-time information, with an "open" protocol, allows you to manage and operate your entire electrical system, including remote hazardous areas, without leaving your office or motor control center. For more information, please contact factory.

Special requirements: _____

Bus duct (termination box) assemblies

Applications:

- Eaton's Crouse-Hinds Division offers NEMA 3R, UL Listed bus duct (termination box) assemblies as standard product; up to 600V, three-phase, 3- or 4-wire, 400 or 600 ampere service with short circuit ratings of 25K or 50K
- Bus ducts or termination boxes provide a means of tapping feeder circuits for power distribution on outdoor switch rack assemblies or indoor wall mounted applications
- Typical application is primarily for bus replacements on existing switch rack installations; new applications may include on-site construction of switch racks or indoor feeder distribution points due to space confinements making local installation more practical



Features:

- UL Listed
- NEMA 3R
- Maximum voltage rating: 600V
- 400 or 600 amperes at 25 kAIC or 50 kAIC
- External flange on bus duct enclosure and lip on covers prevents water leakage and allows covers to hang freely for ease of installation and maintenance
- 3 degree pitch at top, for water run off, on all flush mounted bottom entry designs
- Chorosulfonated polyethylene (Hypalon®) gasket material at all bus box section joints, covers and end plates
- Standoff (Glastic) insulators molded of (UL) recognized flame-resistant fiberglass-reinforced thermoset polyester molding compound
- Bus bar sizing and bracing complies to UL857 requirements
- All welded construction – sheet aluminum, sheet steel (galvanized) or stainless steel
- Stainless steel hardware throughout
- Two hole compression lugs at all power phase connectors attached with stainless steel hardware
- One drain is standard per bus duct section (typical 4 foot sections)
- Solid copper bus bars (tin, silver-plated and/or insulated – optional per customer request)
- Solid copper ground bar – standard
- Incoming main lugs – supplied size and location specified with customer
- Space heaters – optional per customer request
- Pre-drilled copper bars (when specified by customer)
- Conduit entries for Myers hubs – optional per customer request

Bus duct (termination box) assemblies

Ordering information:

Part number example

BST16A6K5DR

B S T 16 A 6 K5 DR

Bus duct

NEMA Type 3R	
NEMA Type 4X	

Door type

S	Single-sided (door on one side)
D	Double-sided (doors on both sides)

Mounting location

T	Top mounting (bottom entries)
B	Bottom mounting (top entries)

Length

02	2 feet
04	4 feet
06	6 feet
08	8 feet
12	12 feet
16	16 feet
20	20 feet
24	24 feet
28	28 feet
32	32 feet
36	36 feet

Enclosure material (sheet metal)

A	Aluminum
G	Galvanized
S	316 stainless steel

Amperage rating of copper bars

4	400A
6	600A
8	800A
10	1000A

kAIC short circuit rating

K2	25 kAIC
K5	50 kAIC
K6	65 kAIC

Options

	Space heaters
	Insulated bars
	Silver-plated bars
	Pre-drilled copper bars
	Conduit entries with Myers hubs

One drain is standard per bus duct (termination box) section

For pricing and lead times, contact Eaton's Crouse-Hinds Division at SYR-ETO-RFQ@eaton.com.