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We connect and protect

Disconnect Wall-Mount Enclosure, Type 12



INDUSTRY STANDARDS

UL 508A Listed; Type 12, 13; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 12, 13; File No. E61997
NEMA/EEMAC Type 12, 13
IEC 60529, IP65

APPLICATION

These general purpose disconnect enclosures accept major brand disconnect switches and circuit breakers commonly available in the market (not sold nor included by nVent HOFFMAN).

SPECIFICATIONS

- 14 gauge steel
- Seams continuously welded and ground smooth
- Bonding provision on door
- External welded-on mounting brackets for easy installation
- External formed body flange channels away liquids
- Removable door with continuous hinge, featuring stainless steel hinge pin to reduce risk of corrosion
- Data pocket is high impact thermoplastic
- Oil-resistant gasket
- Collar studs for mounting optional panels
- Holes in body and door for mounting disconnect operating handle, operating mechanism, and door hardware
- Supplied standard with POWERGLIDE handle and latching hardware; note that model A60SA3812A24LP is sold without handle
- Includes latch pivot post(s) and adjustable door interlock bracket fastened to door, cover latch bar for door, and instructions for installing disconnects

FINISH

ANSI 61 gray, polyester powder paint outside and inside. Optional panels available with a white or conductive finish (sold separately).

ACCESSORIES

Panels for Type 3R, 4, 4X, 12 and 13 Enclosures
Blank Adapter Plates, Mild Steel
Compact Cooling Fans
Enclosure Lights
POWERGLIDE Defeater Handle Kit
Steel and Stainless Steel Window Kits

ORDERING

Note: Some flexible cable operating mechanisms may not work in 8 in deep enclosures due to interference with cable control hardware on inside of flange.

MODIFICATION AND CUSTOMIZATION

nVent HOFFMAN excels at modifying and customizing products to your specifications. Contact your local nVent HOFFMAN sales office or distributor for complete information.

BULLETIN: A25

STANDARD PRODUCT

Catalog Number	A × B × C in	A × B × C mm	Foot-notes	Panel	Conductive Panel	Panel Size D × E (in)	Panel Size D × E (mm)	Data Pocket Size D × E (in)	Data Pocket Size D × E (mm)
A20SA2208LPPL	20.00 × 21.38 × 8.00	508 × 543 × 203	–	A20P20	A20P20G	17.00 × 17.00	432 × 432	6.00 × 6.00	152 × 152
A24SA2208LPPL	24.00 × 21.38 × 8.00	610 × 543 × 203	–	A24P20	A24P20G	21.00 × 17.00	533 × 432	6.00 × 6.00	152 × 152
A24SA2608LPPL	24.00 × 25.38 × 8.00	610 × 645 × 203	–	A24P24	A24P24G	21.00 × 21.00	533 × 533	6.00 × 6.00	152 × 152
A30SA2208LPPL	30.00 × 21.38 × 8 00	762 × 543 × 203	–	A30P20	A30P20G	27.00 × 17.00	686 × 432	6.00 × 6.00	152 × 152
A30SA2608LPPL	30.00 × 25.38 × 8.00	762 × 645 × 203	–	A30P24	A30P24G	27.00 × 21.00	686 × 533	12.00 × 12.00	305 × 305
A36SA2608LPPL	36.00 × 25.38 × 8.00	914 × 645 × 203	–	A36P24	A36P24G	33.00 × 21.00	838 × 533	12.00 × 12.00	305 × 305
A36SA3208LPPL	36.00 × 31.38 × 8.00	914 × 797 × 203	–	A36P30	A36P30G	33.00 × 27.00	838 × 686	12.00 × 12.00	305 × 305
A42SA3208LPPL	42.00 × 31.38 × 8.00	1067 × 797 × 203	–	A42P30	A42P30G	39.00 × 27.00	991 × 686	6.00 × 6.00	152 × 152
A42SA3808LPPL	42.00 × 37.38 × 8.00	1067 × 949 × 203	–	A42P36	A42P36G	39.00 × 33.00	991 × 838	12.00 × 12.00	305 × 305
A48SA3808LPPL	48.00 × 37.38 × 8.00	1219 × 949 × 203	–	A48P36	A48P36G	45.00 × 33.00	1143 × 838	12.00 × 12.00	305 × 305
A60SA3808LPPL	60.00 × 37.38 × 8.00	1524 × 949 × 203	–	A60P36	A60P36G	57.00 × 33.00	1448 × 838	12.00 × 12.00	305 × 305
A20SA2210LPPL	20.00 × 21.38 × 10.00	508 × 543 × 254	–	A20P20	A20P20G	17.00 × 17.00	432 × 432	6.00 × 6.00	152 × 152
A24SA2210LPPL	24.00 × 21.38 × 10.00	610 × 543 × 254	–	A24P20	A24P20G	21.00 × 17.00	533 × 432	6.00 × 6.00	152 × 152
A24SA2610LPPL	24.00 × 25.38 × 10.00	610 × 645 × 254	–	A24P24	A24P24G	21.00 × 21.00	533 × 533	6.00 × 6.00	152 × 152
A30SA2210LPPL	30.00 × 21.38 × 10.00	762 × 543 × 254	–	A30P20	A30P20G	27.00 × 17.00	686 × 432	6.00 × 6.00	152 × 152
A30SA2610LPPL	30.00 × 25.38 × 10.00	762 × 645 × 254	–	A30P24	A30P24G	27.00 × 21.00	686 × 533	12.00 × 12.00	305 × 305
A36SA2610LPPL	36.00 × 25.38 × 10.00	914 × 645 × 254	–	A36P24	A36P24G	33.00 × 21.00	838 × 533	12.00 × 12.00	305 × 305
A36SA3210LPPL	36.00 × 31.38 × 10.00	914 × 797 × 254	–	A36P30	A36P30G	33.00 × 27.00	838 × 686	12.00 × 12.00	305 × 305
A42SA3210LPPL	42.00 × 31.38 × 10.00	1067 × 797 × 254	–	A42P30	A42P30G	39.00 × 27.00	991 × 686	6.00 × 6.00	152 × 152
A42SA3810LPPL	42.00 × 37.38 × 10.00	1067 × 949 × 254	–	A42P36	A42P36G	39.00 × 33.00	991 × 838	12.00 × 12.00	305 × 305
A48SA2610LPPL	48.00 × 25.38 × 10.00	1219 × 645 × 254	–	A48P24	A48P24G	45.00 × 21.00	1143 × 533	12.00 × 12.00	305 × 305
A60SA3810LPPL	60.00 × 37.38 × 10.00	1524 × 949 × 254	–	A60P36	A60P36G	57.00 × 33.00	1448 × 838	12.00 × 12.00	305 × 305
A60SA3812LPPL	60.00 × 37.38 × 12.00	1524 × 949 × 305	–	A60P36	A60P36G	57.00 × 33.00	1448 × 838	12.00 × 12.00	305 × 305
A36SA3216LPPL	36.00 × 31.38 × 16.00	914 × 797 × 406	–	A36P30	A36P30G	33.00 × 27.00	838 × 686	12.00 × 12.00	305 × 305
A36SA3216LPPL	36.00 × 31.38 × 16.00	914 × 797 × 406	–	A36P30	A36P30G	33.00 × 27.00	838 × 686	12.00 × 12.00	305 × 305
A42SA3216LPPL	42.00 × 31.38 × 16.00	1067 × 797 × 406	–	A42P30	A42P30G	39.00 × 27.00	991 × 686	6.00 × 6.00	152 × 152
A42SA3816LPPL	42.00 × 37.38 × 16.00	1067 × 949 × 406	–	A42P36	A42P36G	39.00 × 33.00	991 × 838	12.00 × 12.00	305 × 305
A48SA3816LPPL	48.00 × 37.38 × 16.00	1219 × 949 × 406	–	A48P36	A48P36G	45.00 × 33.00	1143 × 838	12.00 × 12.00	305 × 305
A60SA3816LPPL	60.00 × 37.38 × 16.00	1524 × 949 × 406	–	A60P36	A60P36G	57.00 × 33.00	1448 × 838	12.00 × 12.00	305 × 305
A30SA2612LPPL	30.00 × 25.38 × 12.00	762 × 645 × 305	a	A30P24	A30P24G	27.00 × 21.00	686 × 533	12.00 × 12.00	305 × 305
A36SA3212LPPL	36.00 × 31.38 × 12.00	914 × 797 × 305	a	A36P30	A36P30G	33.00 × 27.00	838 × 686	12.00 × 12.00	305 × 305
A42SA3212LPPL	42.00 × 31.38 × 12.00	1067 × 797 × 305	a	A42P30	A42P30G	39.00 × 27.00	991 × 686	6.00 × 6.00	152 × 152
A42SA3812LPPL	42.00 × 37.38 × 12.00	1067 × 949 × 305	a	A42P36	A42P36G	39.00 × 33.00	991 × 838	12.00 × 12.00	305 × 305
A48SA3812LPPL	48.00 × 37.38 × 12.00	1219 × 949 × 305	a	A48P36	A48P36G	45.00 × 33.00	1143 × 838	12.00 × 12.00	305 × 305
A60SA3812A24LP	60.00 × 37.38 × 12.00	1524 × 949 × 305	b	A60P36	A60P36G	57.00 × 33.00	1448 × 838	12.00 × 12.00	305 × 305

[a]When using a Siemens ITE circuit breaker and an enclosure with an A dimension of 30, 36 or 42 in, verify the amount of wire bend space required for both the line and load sides. Enclosures 12 and 16 in deep can be modified to accept Siemens ITE 800 A and 1200 A circuit breakers. (Consult factory for details.)
[b]Catalog number A60SA3812A24LP enclosure will receive only 400 A and 600 A Allen-Bradley Bulletin 1494 V disconnect switches, and Siemens ITE 800 Amp and 1200 Amp circuit breakers. POWERGLIDE handle not included standard, and Blank Adapter Plates will not fit this enclosure solution.

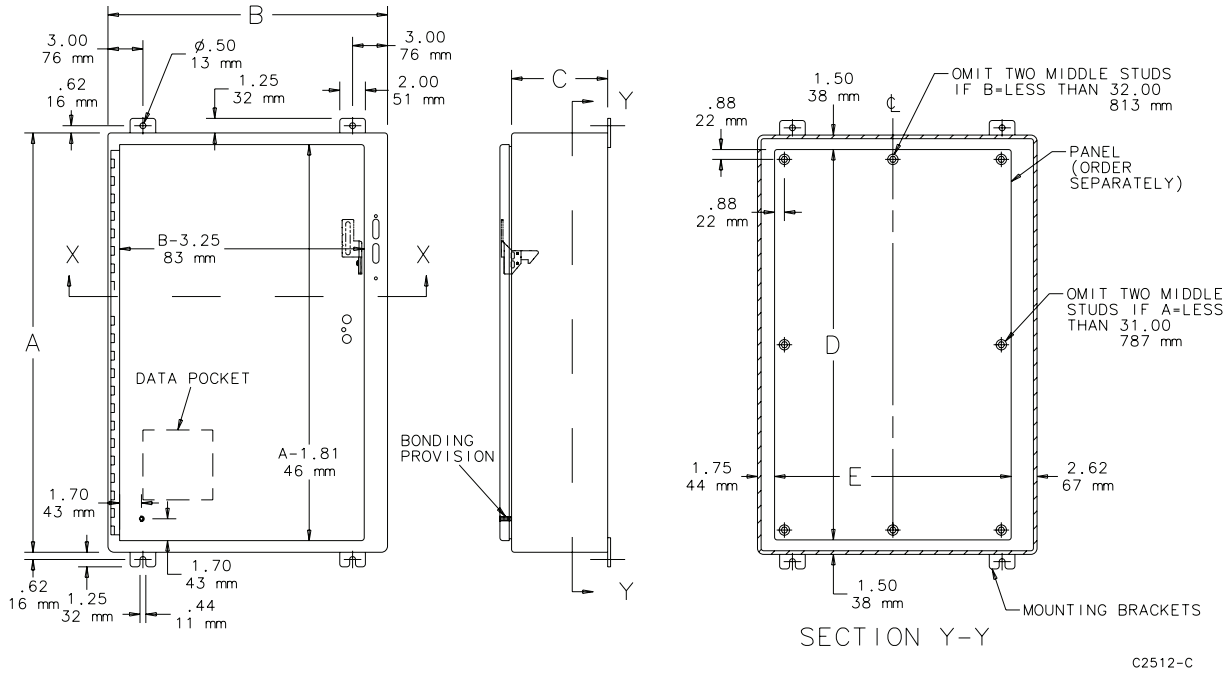
Purchase panels separately.
Note: nVent HOFFMAN cannot guarantee compatibility of disconnect configurations with third-party latching. Please work with your local nVent HOFFMAN distributor or contact nVent HOFFMAN Technical Support, 763-422-2175, TechAppSupport@nVent.com.

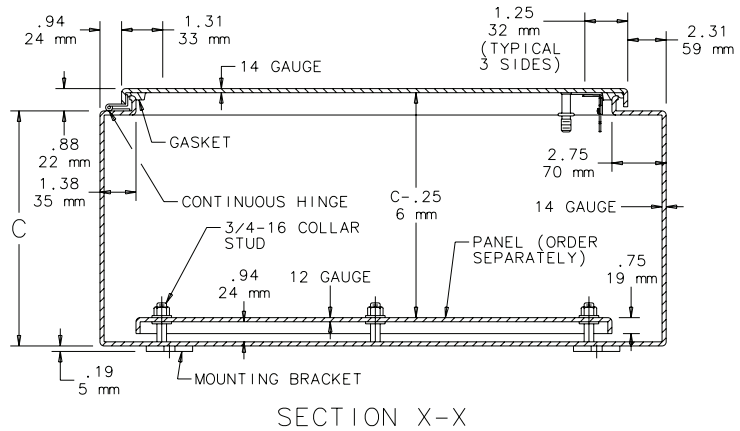
TABLE 430.10(B) MINIMUM WIRE BENDING SPACE AT THE TERMINALS OF ENCLOSED MOTOR CONTROLLERS

Size of Wire (AWG or kcmil)	Wires per Terminal 1 (mm)	Wires per Terminal 1 (in)	Wires per Terminal 2 (mm)	Wires per Terminal 2 (in)
14–10	Not specified	Not specified	–	–
8–6	30	1.5	–	–
4–3	50	2	–	–
2	65	2.5	–	–
1	75	3	–	–
1/0	125	5	125	5
2/0	150	6	150	6
3/0–4/0	175	7	175	7
250	200	8	200	8
300	250	10	250	10
350–500	300	12	300	12
600–700	350	14	400	16
750–900	450	18	475	19

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Where provision for 3 or more wires per terminal exists, the minimum wire bending space shall be in accordance with the requirements of Article 312.





Note:
1. Panels have flanges along two sides when the side dimension is more than 21.00 (533 mm).
2. Panels are 12 gauge steel.
3. Enclosure with A < 40.00 (1016 mm) require 2-point door hardware.

PREFERRED-CUTOUT OVERVIEW



APPLICATION

Enclosures having the preferred cutout are sized for use with up to 200 A disconnect switches and up to 400 A circuit breakers unless otherwise specified. The preferred cutout accepts the smaller operating handle whose mounting hole centers are 4.688 in apart. Preferred cutouts are standard in mild steel wall-mount enclosures, modular enclosures and some select large mild steel enclosures. They are also present on all standard stainless steel offerings. Mild steel operator adapter plates with brand specific preferred cutouts are available for enclosures with a rectangular universal cutout.

Preferred cutouts are designed to house the following:

Allen-Bradley

- Bulletin 1494U universal disconnect switches with flange-mount handles for either variable-depth, cable-operated mechanisms
- Bulletin 1494V disconnect switches with flange-mount variable-depth operating mechanisms and Bulletin 1494V flange-mount variable-depth operating mechanisms for circuit breakers
- Bulletin 140U flexible cable operating mechanisms for 140U molded case circuit breakers
- Bulletin 140G flexible cable and variable-depth, flange-mount, molded case circuit breakers
- Bulletin 1494C cable-operated disconnect switches with flange mount handles
- Bulletin 194RC cable-operated flange-mount handles for use with the NFPA 79 compliant 194R IEC rotary disconnect switches

Allen-Bradley Bulletin 1494V-R1, -R2 and -W2 operating handles and Allen-Bradley Bulletin 1494F disconnect devices or Bulletin 1494D circuit breaker operators will NOT fit these enclosures.

ABB Controls flange-mount variable-depth operating mechanisms for disconnect switches and circuit breakers. Also the cable version for circuit breakers.

Eaton Cutler-Hammer Type C361 flange-mount variable-depth operating mechanisms with disconnect switches and Type C371 flange-mount variable-depth operating mechanisms for circuit breakers.

General Electric Type STDA flange handles and variable-depth operating mechanisms for disconnect switches and circuit breakers. Also SPECTRAFLEX cable operators for circuit breakers.

Siemens ITE MAX FLEX flange-mount variable-depth operating handles for circuit breakers.

Schneider Square D Class 9422 disconnect switches with flange mount variable-depth operating mechanisms or cable mechanisms and Class 9422 flange-mount variable-depth operating mechanisms or cable mechanisms for circuit breakers.
These enclosures will NOT accept Square D Class 9422 bracketmounted disconnect devices, Class 9422TG1 or TG2 devices.

ORDERING

The disconnect switch, operating handle, and operating mechanism must be ordered from disconnect equipment supplier. See Technical Information in the nVent HOFFMAN Specifier's Guide for wire bend space available when various manufacturers' disconnect switches are installed. Check the enclosure dimension drawings to verify the chosen disconnect switch will fit in the enclosure.

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