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Carlon® Non-Metallic Junction Boxes

To give you a better way to install parking lot lights, we started at the bottom.

Curved Lid J-Box

Anyone who's worked with parking lot light poles knows the problem. Those tiny, integral hand holes for electrical wiring can really slow a project down. But now, there's a better answer for shopping centers, car dealerships, sports arenas, office complexes or anywhere you need pole lighting for large parking lot areas — the Carlon® non-metallic curved lid J-Boxes.

Carlon® curved lid J-Boxes are listed in accordance with UL 50 specifications for Electrical Enclosures as well as NEMA 1, 2, 3, 3R, 3S, 4, 4X, 12 and 13 ratings. They are available in sizes 8" x 8" or 12" x 12". Both the base and lid are made from PVC to eliminate rust and corrosion, and both are supplied with tamper-resistant screws.

Designed specifically for use with 24" diameter concrete piers, J-Boxes are installed, along with all necessary conduit and fittings, when piers are poured. This gives installers a giant junction box at the base of every pole to ease wiring, facilitate circuit management and provide easy post-installation maintenance. Just take a closer look, and you'll see why our non-metallic J-Boxes are a better choice for you.



Install Carlon® Weatherproof Covers

Features

- NEMA 1, 2, 3, 3R, 3S, 4, 4X, 12, 13
- UL[®] Listed and CSA Certified
- Paintable lid
- Dividers available to separate high and low voltage, and can be retrofitted into existing applications
- Lids provide locations to mount weatherproof covers:

8" x 8" — One location

12" x 12" — Three locations

- Nonconductive and noncorrosive
- · Designed for a 24" diameter concrete pier

Note: The J-Box can also be installed in concrete piers from 18" to 36" in diameter. Contact your Thomas & Betts representative for installation details.







Carlon® Non-Metallic Junction Boxes

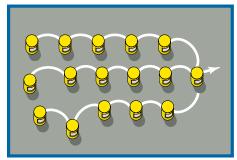
Faster, easier wiring for greater productivity.



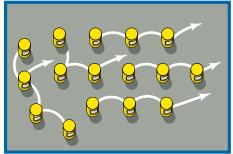
Once your J-Boxes are installed, you can speed projects along by pre-wiring before poles arrive. Or, you can install poles first and use them to mount cable-pulling equipment — a particular advantage for long, difficult wire pulls. Of course, all the extra hand room our J-Boxes offer makes splicing much easier and faster than working through cramped pole-access holes.

More flexibility, fewer home runs and easier maintenance, too.

Extra room also gives you splicing space for options like zone lighting or to reduce the number of home runs, which can lower trenching and associated materials costs by up to 30%. In addition, the box lids provide locations to mount receptacles and weatherproof covers for even more flexibility. For easy maintenance, fixture protection can be placed at the base, and if need be, poles can even be removed and replaced in the middle of the circuit without affecting overall lighting.



Site Lighting Plan with J-BOX



Site Lighting Plan without J-BOX

Easy to Install



J-Box, with all conduit and fittings placed as desired, is temporarily attached to the concrete form — base



Remove form after concrete has been poured and allowed to cure.



Pop off the J-Box lid, leaving an 8" x 8" x 4" or 12" x 12" x 4" access area, depending on the J-Box selected.



After wiring is completed, the lid is replaced to complete the installation.



United States

Tel: 901.252.8000 800.816.7809 Fax: 901.252.1354 Technical Services
Tel: 888.862.3289



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Carlon® Non-Metallic Junction Boxes

J-Box Assemblies

| CAT. NO. | SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) |
|----------|-------------|-----------|-----------------|
| E88C24 | 8 x 8 x 4 | 6 | 28.3 |
| E1212C24 | 12 x 12 x 4 | 2 | 9.7 |



Accessories

Replacement Lids



| CAT. NO. | SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) |
|----------|------------|-----------|-----------------|
| E88L24 | 8 x 8 | 1 | 2.1 |
| E1212L24 | 12 x 12 | 1 | 2.3 |

Dividers

The **National Electrical Code® (NEC®)** allows electrical conductors to share an outlet box when the conductors and communication cables are separated by a barrier within the box.



J-Box Dividers are used to separate high- and low-voltage devices and solvent cement into place.

| CAT. NO. | STD. CTN. | STD. WT. (LBS.) |
|----------------------------------|-----------|-----------------|
| ◆ E88DIV | 6 | 2.1 |
| (For use with CAT. NO. E88C24) | | |
| ◆ E1212DIV | 2 | 2.3 |
| (For use with CAT, NO. E1212C24) | | |

NEC and National Electrical Code are registered trademarks of the National Fire Protection Association, Inc.

Fax: 901.252.1354



Carlon® Non-Metallic Junction Boxes

Molded Non-Metallic Junction Boxes — 6P Rated

Non-metallic junction boxes are UL® Listed with a NEMA 6P rating per Section 314.28 of the National Electrical Code® and CSA Certified per Section 12 of the Canadian Electrical Code. Manufactured from PVC or PPO thermoplastic molding compound and featuring foam-in-place gasketed lids attached with stainless steel screws, these rugged enclosures offer all the corrosion resistance and physical properties you need for direct burial applications.

Type 6P enclosures are intended for indoor or outdoor use, primarily to provide a degree of protection against contact with enclosed equipment, falling dirt, hose-directed water, entry of water during prolonged submersion at a limited depth and external ice formation.

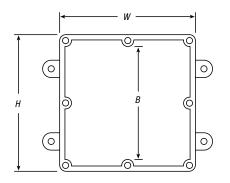
- All Carlon® Junction Boxes are UL® Listed/CSA Certified and maintain a minimum of a NEMA Type 4/4x Rating
- Part numbers with an asterisk (*) are UL[®] Listed and maintain a NEMA Type 6P Rating and Type 4/4X Rating

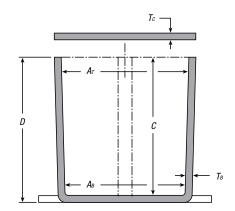






Except where noted by †





| | | | | DIMENSIONS (IN.) | | | | MATERIAL | | | |
|--------------|-------------------------|--------------|---|-----------------------|----------|----------|------|----------|-----|--------------------|--------------------|
| CAT. NO. | SIZE (IN.) H x W x D | STD. CTN. | MIN A _T | MIN A _B | MIN B | MIN C | Тв | Tc | PVC | THERMO- PLASTIC | STD. WT. (LBS.) |
| E989NNJ* | 4 x 4 x 2 | 10 | 311/16 | 35/8 | N/A | 2 | .160 | .155 | Х | 1 | 3 |
| E987N* | 4 x 4 x 4 | 10 | 311/16 | 31/2 | N/A | 4 | .160 | .155 | Χ | | 4 |
| E989NNR* † | 4 x 4 x 6 | 10 | 311/16 | 3¾ | N/A | 6 | .160 | .200 | Χ | | 5 |
| E989PPJ* | 5 x 5 x 2 | 10 | 411/16 | 41/2 | N/A | 2 | .110 | .150 | | Χ | 3 |
| E987R-CAR* | 6 x 6 x 4 | 2 | 6 | 55/8 | N/A | 4 | .190 | .190 | | Χ | 3 |
| E989RRR-UPC* | 6 x 6 x 6 | 8 | 55//8 | 53/8 | N/A | 6 | .160 | .150 | | Χ | 14 |
| E989N-CAR | 8 x 8 x 4 | 1 | 8 | 8 | N/A | 4 | .185 | .190 | | Χ | 2 |
| E989SSX-UPC | 8 x 8 x 7 | 2 | 7 ²¹ / ₃₂ | 75/16 | N/A | 7 | .160 | .150 | | Χ | 6 |
| E989UUN | 12 x 12 x 4 | 3 | 11% | 11½ | 111//8 | 4 | .160 | .150 | | Χ | 12 |
| E989R-UPC | 12 x 12 x 6 | 2 | 11 ¹⁵ ⁄ ₁₆ | 11% | 117/16 | 6 | .265 | .185 | | Χ | 10 |

^{*} UL Listed

NEC and National Electrical Code are registered trademarks of the National Fire Protection Association, Inc.



[†] Not CSA Certified

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Carlon® Non-Metallic Junction Boxes

Large PVC Junction Boxes — NEMA 4X

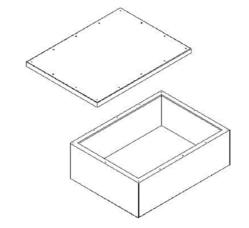
Large PVC Junction Boxes are fabricated from Type II PVC sheet.

Reduce the use of steel boxes and keep your wiring connections clean, safe and dry using these high-quality, fully gasketed junction boxes.

Features and Benefits:

- PVC Type II material with "Uni-Body" construction and penetration welding providing a very strong, durable enclosure
- UL94V-0 flame rating
- Suitable for exposure of up to 90° C
- PVC material enables the use of standard solvent cements for fitting attachment
- Junction boxes are available with or without mounting flanges
- Individual mounting feet are available and provided in kits of four
- Custom features such as windows or panel mounts are available
- Custom sizes are also available upon request
- Made in the USA

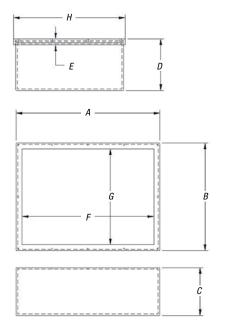




| | | DIMENSIONS (IN.) | | | | | | | STD. |
|----------|----|------------------|----|-------|------|------|------|-------|---------------|
| CAT. NO. | Α | В | С | D | E | F | G | Н | WT. (LBS.) |
| EP12128 | 12 | 12 | 8 | 8.25 | 1.00 | 10.5 | 10.5 | 12.75 | 11 |
| EP181812 | 18 | 18 | 12 | 12.25 | 1.00 | 16 | 16 | 18.75 | 21 |
| EP201808 | 20 | 18 | 8 | 8.25 | 1.00 | 18 | 16 | 18.75 | 20 |
| EP202008 | 20 | 20 | 8 | 8.25 | 1.00 | 18 | 18 | 20.75 | 22 |
| EP241808 | 24 | 18 | 8 | 8.25 | 1.00 | 22 | 16 | 18.75 | 24 |
| EP242008 | 24 | 20 | 8 | 8.25 | 1.00 | 21.5 | 17.5 | 20.75 | 25 |
| EP242408 | 24 | 24 | 8 | 8.25 | 1.00 | 21.5 | 21.5 | 24.75 | 29 |
| EP302408 | 30 | 24 | 8 | 8.25 | 1.00 | 27.5 | 21.5 | 24.75 | 34 |
| EP362408 | 36 | 24 | 8 | 8.25 | 1.00 | 33.5 | 21.5 | 24.75 | 39 |

Accessories

| CAT. NO. | DESCRIPTION | STD. WT. (LBS.) |
|----------|--|--------------------|
| ESMFK-1 | "CleverMount" Mounting Feet (4 Feet and Fasteners) | 5 |





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(VL) LISTED

E11461

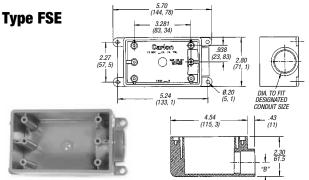
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Where

Carlon® Non-Metallic Junction Boxes

Single-Gang FS Device Boxes

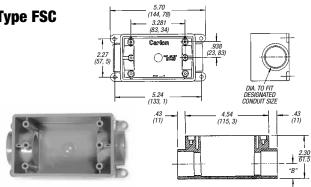




- For dead-end terminations
- All sizes take standard covers and accessories or devices
- Integral mounting feet provide easy mounting

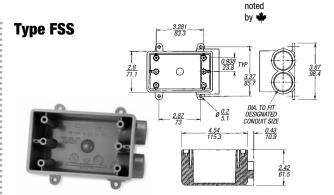
| CAT. NO. | SIZE (IN.) | VOL. CU. IN. | STD. CTN. |
|---------------|------------|--------------|-----------|
| E980DFN | 1/2 | 19 | 10 |
| C980DFN-CTN | 1/2 | 18 | 12 |
| E980EFN | 3/4 | 19 | 10 |
| C980EFN-CTN | 3/4 | 18 | 12 |
| E980FFN | 1 | 19 | 18 |
| C980FFN-CTN | 1 | 18 | 8 |
| E980FFN-CAR | 1 | 19 | 10 |
| * Canada Only | | | |





- For through terminations
- All sizes take standard covers and accessories or devices
- · Detachable mounting feet provide easy mounting

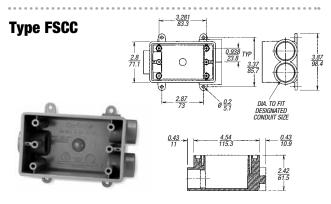
| CAT. NO. | SIZE (IN.) | VOL. CU. IN. | STD. CTN. |
|-------------|------------|--------------|-----------|
| E981DFN | 1/2 | 19 | 15 |
| C981DFN-CTN | 1/2 | 18 | 12 |
| E981EFN | 3/4 | 19 | 15 |
| C981EFN-CTN | 3/4 | 18 | 12 |
| E981FFN | 1 | 19 | 18 |
| E981FFN-CAR | 1 | 19 | 10 |
| C981FFN-CTN | 1 | 18 | 8 |
| Canada Only | | | |



- For multiple dead-end circuit terminations or where additional support is required in stub-up applications
- All sizes take standard covers and accessories or devices
- Detachable mounting feet provide easy mounting

| CAT. NO. | SIZE (IN.) | VOL. CU. IN. | STD. CTN. |
|-------------|------------|--------------|-----------|
| E982DFN | 1/2 | 19 | 10 |
| C982DFN-CTN | 1/2 | 18 | 12 |
| E982EFN | 3/4 | 19 | 10 |
| C982EFN-CTN | 3/4 | 18 | 12 |
| E982FFN | 1 | 19 | 10 |
| C982FFN-CTN | 1 | 18 | 8 |
| | | | |

Canada Only



- For multiple through-circuit terminations or where additional support is required in stub-up applications
- All sizes take standard covers and accessories or devices
- Detachable mounting feet provide easy mounting

| CAT. NO. | SIZE (IN.) | VOL. CU. IN. | STD. CTN. |
|------------------|------------|--------------|-----------|
| E979DFN-CAR | 1/2 | 19 | 10 |
| ★ C979DFN | 1/2 | 18 | 15 |
| E979EFN-CAR | 3/4 | 19 | 10 |
| ★ C979EFN | 3/4 | 18 | 15 |
| E979FFN | 1 | 19 | 15 |
| C979FFN | 1 | 18 | 15 |
| * Canada Only | | | |

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Carlon®

Carlon® Non-Metallic Junction Boxes

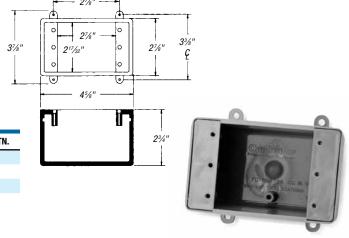
Single-Gang FD Deep Device Boxes

Type FD

- For terminations where hub requirements vary according to application — hubs easily made with flared wood bit or hole saw
- All sizes take standard covers and accessories or devices
- · Integral mounting feet provide easy mounting

| CAT. NO. | SIZE (IN.) | VOL. CU. IN. | STD. CTN. |
|---------------------|------------|--------------|-----------|
| E9801 | N/A | 25 | 10 |
| ₩ CE9801-CTN | N/A | 25 | 10 |
| ₩ C9801-347 | N/A | 25 | 10 |

* Canada Only



Type FDC

- For through terminations where large devices or additional wiring capacityis required
- All sizes take standard covers and accessories or devices
- Integral mounting feet provide easy mounting

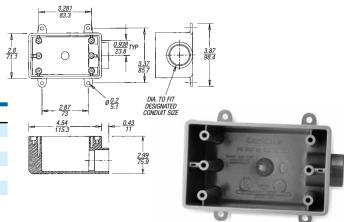
| CAT. NO. | SIZE (IN.) | VOL. CU. IN. | STD. CTN. |
|---------------------------------------|------------|--------------|-----------|
| E9811DN | 1/2 | 25 | 10 |
| ₩ C9811DN | 1/2 | 25 | 10 |
| E9811EN | 3/4 | 25 | 10 |
| ₩ C9811EN | 3/4 | 25 | 10 |
| E9811FN | 1 | 25 | 10 |
| ₩ C9811FN | 1 | 25 | 10 |
| · · · · · · · · · · · · · · · · · · · | | | |

Canada Only

Type FDE

- For dead-end terminations where large devices or additional wiring capacity is required
- All sizes take standard covers and accessories or devices
- Integral mounting feet provide easy mounting

| CAT. NO. | SIZE (IN.) | VOL. CU. IN. | STD. CTN. |
|------------------|------------|--------------|-----------|
| E9801DN | 1/2 | 25 | 10 |
| ₩ C9801DN | 1/2 | 25 | 10 |
| E9801EN | 3/4 | 25 | 10 |
| ₩ C9801EN | 3/4 | 25 | 10 |
| E9801FN | 1 | 25 | 10 |
| ₩ C9801FN | 1 | 25 | 10 |
| Canada Only | | | |





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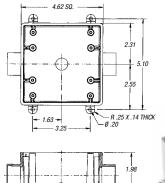


Carlon® Non-Metallic Junction Boxes

Two-Gang FS Device Boxes Type 2FSC

- For through terminations where two devices or additional wiring capacity is required
- · All sizes take standard covers and accessories or devices
- · Integral mounting feet provide easy mounting

| CAT. NO. | SIZE (IN.) | VOL. CU. IN. | STD. CTN. |
|-----------------|------------|--------------|-----------|
| E9812D | 1/2 | 32 | 10 |
| CE9812D-CTN | 1/2 | 32 | 10 |
| E9812E | 3/4 | 32 | 10 |
| CE9812E-CTN | 3/4 | 32 | 10 |
| E9812F | 1 | 32 | 10 |
| ♥ C9812F | 1 | 32 | 10 |
| * Canada Only | | | |



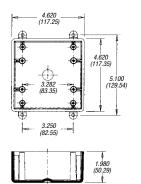


Type FS

- For terminations where hub requirements vary according to application — hubs easily made with flared wood bit or hole saw
- · All sizes take standard covers and accessories or devices
- · Integral mounting feet provide easy mounting

| CAT. NO. | SIZE (IN.) | VOL. CU. IN. | STD. CTN. |
|-----------------|------------|--------------|-----------|
| E9802 | N/A | 32 | 10 |
| ★ CE9802 | N/A | 32 | 10 |

* Canada Only



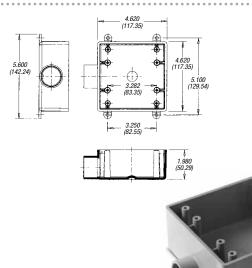


Type 2FSE

- For dead-end terminations where two devices or additional wiring capacity is required
- · All sizes take standard covers and accessories or devices
- Integral mounting feet provide easy mounting

| CAT. NO. | SIZE (IN.) | VOL. CU. IN. | STD. CTN. |
|----------------------|------------|--------------|-----------|
| E9802D | 1/2 | 32 | 10 |
| ★ CE9802D-CTN | 1/2 | 32 | 10 |
| E9802E | 3/4 | 32 | 10 |
| ★ CE9802E-CTN | 3/4 | 32 | 10 |
| E9802F | 1 | 32 | 10 |
| ₩ C9802F | 1 | 32 | 1 |

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Carlon®

Carlon® Non-Metallic Junction Boxes

Blank Covers for Device Boxes

Single-Gang

- Fits Carlon® single-gang FS boxes
- · Supplied with stainless steel mounting screws and gasket

| CAT. NO. | COLOR | STD. CTN. | STD. WT. (LBS.) |
|------------|-------|-----------|-----------------|
| E980CN-CAR | Gray | 12 | 1.60 |
| E980CM-CAR | White | 12 | 1.60 |



Two-Gang

- Fits Carlon® two-gang FS boxes, other non-metallic and metallic FS boxes
- · Supplied with stainless steel mounting screws and gasket

| CAT. NO. | COLOR | STD. CTN. | STD. WT. (LBS.) |
|-------------|-------|-----------|-----------------|
| E9802CN-CAR | Gray | 10 | 2.17 |



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Circuit Safe® NEMA Enclosures

Circuit Safe® NEMA Enclosures

Circuit Safe® NEMA Enclosures are the flagship product of the Carlon® Enclosure offering. Molded in tough, durable polycarbonate resin, these enclosures lead the market in terms of design, durability, aesthetics and economy of use.

Ranging in size from 6" x 4" x 4" to 16" x 14" x 6", all Circuit Safe® NEMA products are UL 50 Listed and meet Types 4X, 12 and 13. These enclosures utilize recognized materials that carry an ultraviolet rating of F1, ensuring a very long, stable service life when installed outdoors. In addition, the use of polycarbonate material means that these enclosures enjoy an extremely high impact-resistance rating...almost three times more impact resistant than traditional fiberglass enclosures.

Installation of components is made easy, too, with the Panel Adjuster Kits and Swing-Out Panel Kits. Subpanels can be stacked or suspended at any depth within the enclosure, maximizing the space available for component mounting. Machining polycarbonate is also safe and easy. There are no splintering problems or airborne fibers as is typical when machining traditional fiberglass products.

Lighter, stronger, easier, safer to use and better looking. Check out Carlon's Circuit Safe® NEMA line today.





Features and Benefits:

- 100% non-metallic construction, including hinges
- Sturdy SS latches install without penetration of the enclosure base
- · Clear covers are available, which eliminate the need for window kits
- All cover screws are captive
- Panel suspension system enables the installation of panels at any depth, including stacking of multiple panels
- Swing panels are also available
- Available in junction boxes, external hinge and hidden hinge versions
- · Subpanels are available in steel or PVC
- · Non-metallic mounting rails for easy installation
- Less than half the weight of metal enclosures, 25% lighter than fiberglass, easier to handle and less expensive to ship
- Full modification services are available

Applications:

- Any outdoor applications, especially where sunlight resistance is an issue
- Applications where water is present
- Applications where damage during shipment, installation or use is an issue

- Any applications where it is necessary to view internal components through a clear cover
- Applications where weight is an issue
- Applications where the ability to pass wireless signals is needed
- Applications where rust and corrosion are an issue

Examples:

- Septic and pump controls
- Wireless system component protection
- Marina and sea-side installations
- Controls that require though-cover viewing of readouts and dials
- Machine controls/process controls
- · Food and beverage process controls
- · Security system controls

Standards

- . Meets or exceeds NEMA Types 4X, 12 and 13
- Listed per UL 50 as Types 4X, 12 and 13

NEMA Enclosure Styles

Circuit Safe® NEMA Enclosures are available in three different cover options and a wide range of sizes. From our screw-cover style enclosures to our hidden-hinge cover style enclosures to our external-hinge cover style enclosures, Carlon® has a Circuit Safe® NEMA enclosure to meet your application-specific needs.

Styles

- Screw Cover
- External Hinge
- · Hidden Hinge

Cover Color Options

- Opaque
- Clear

Material

 Polycarbonate (Bases and Lids)



Screw Cover



External-Hinge Cover



Hidden-Hinge Cover



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Carlon®

Circuit Safe® NEMA Enclosures

Meets NEMA 1, 2, 3, 3S, 3X, 3SX, 4, 4X, 12.

Screw-On Covers



Enclosure Kits

| OPAQUE COVER* | CLEAR COVER* | | BACK P | ANELS** | - STD. | STD. WT. (LBS.) | | |
|------------------|-----------------|-------------|--------|---------|--------|-----------------|--|--|
| CAT. NO. | CAT. NO. | SIZE (IN.) | STEEL | PVC | CTN. | OPAQUE/CLEAR | | |
| NS644 | NV644 | 6 x 4 x 4 | JP64 | JP64P | 1 | Opa 1.8/Clr 1.9 | | |
| NS664 | NV664 | 6 x 6 x 4 | JP66 | JP66P | 1 | Opa 2.4/Clr 2.4 | | |
| NS864 | NV864 | 8 x 6 x 4 | JP86 | JP86P | 1 | Opa 2.9/Clr 2.8 | | |
| NS884 | NV884 | 8 x 8 x 4 | JP88 | JP88P | 1 | Opa 3.2/Clr 3.3 | | |
| NS1084 | NV1084 | 10 x 8 x 4 | JP108 | JP108P | 1 | Opa 4.0/Clr 3.9 | | |
| NS1086 | NV1086 | 10 x 8 x 6 | JP108 | JP108P | 1 | Opa 4.6/Clr 4.5 | | |
| NS10106 | NV10106 | 10 x 10 x 6 | JP1010 | JP1010P | 1 | Opa 5.3/Clr 4.9 | | |
| NS12106 | NV12106 | 12 x 10 x 6 | JP1210 | JP1210P | 1 | Opa 6.1/Clr 5.2 | | |
| NS12126 | NV12126 | 12 x 12 x 6 | JP1212 | JP1212P | 1 | Opa 6.8/Clr 6.1 | | |
| NS14126 | NV14126 | 14 x 12 x 6 | JP1412 | JP1412P | 1 | Opa 7.4/Clr 7.0 | | |
| NS16146 | NV16146 | 16 x 14 x 6 | JP1614 | JP1614P | 1 | Opa 9.2/Clr 8.1 | | |

^{*} Include body, lid and mounting rail kit.



Opaque Cover



Clear Cover

Individual Components

| | ENCLOSURE | BASE* | | | ENCLO | SURE LIDS | 6 | | BAC | CK PANELS** | |
|----------|-------------------------|--------------|--------------------|----------------|---------------|--------------|--------------------|---|-------------------|-----------------|--------------|
| CAT. NO. | ENCLOSURE SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) | OPAQUE LIDS | CLEAR LIDS | STD. CTN. | STD. WT. (LBS.) | · | STEEL CAT. NO. | PVC CAT. NO. | STD. CTN. |
| NP644B | 6 x 4 x 4 | 18 | 21 | NS64L | NV64L | 16 | Opa 6.4/Clr 5.7 | | JP64 | JP64P | 1 |
| NP664B | 6 x 6 x 4 | 12 | 17 | NS66L | NV66L | 12 | Opa 6.2/Clr 5.7 | | JP66 | JP66P | 1 |
| NP864B | 8 x 6 x 4 | 12 | 18 | NS86L | NV86L | 9 | Opa 6/Clr 4.4 | | JP86 | JP86P | 1 |
| NP884B | 8 x 8 x 4 | 14 | 28 | NS88L | NV88L | 18 | Opa 14/Clr 11.2 | | JP88 | JP88P | 1 |
| NP1084B | 10 x 8 x 4 | 12 | 26 | NS108L | NV108L | 12 | Opa 13/Clr 11 | | JP108 | JP108P | 1 |
| NP1086B | 10 x 8 x 6 | 8 | 23 | NS108L | NV108L | 12 | Opa 13/Clr 11 | | JP108 | JP108P | 1 |
| NP1010B | 10 x 10 x 6 | 6 | 20 | NS1010L | NV1010L | 11 | Opa 14/Clr 12 | | JP1010 | JP1010P | 1 |
| NP1210B | 12 x 10 x 6 | 6 | 23 | NS1210L | NV1210L | 12 | Opa 15/Clr 15 | | JP1210 | JP1210P | 1 |
| NP1212B | 12 x 12 x 6 | 5 | 22 | NS1212L | NV1212L | 10 | Opa 15/Clr 14 | | JP1212 | JP1212P | 1 |
| NP1412B | 14 x 12 x 6 | 5 | 24 | NS1412L | NV1412L | 5 | Opa 9/Clr 9 | | JP1412 | JP1412P | 1 |
| NP1614B | 16 x 14 x 6 | 4 | 31 | NS1614L | NV1614L | 5 | Opa 11/Clr 11 | | JP1614 | JP1614P | 1 |

^{*} Mounting rails are not included. See "Mounting Rails" on page A-307.

^{**} Order back panels separately.



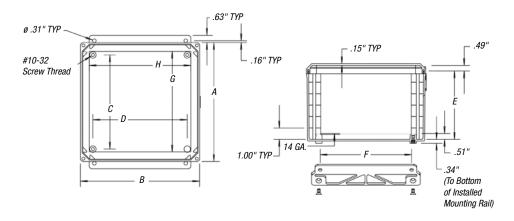
Fax: 901.252.1354

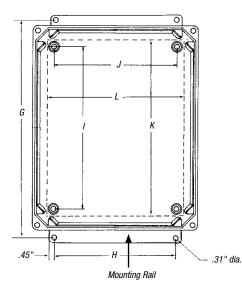
Technical Services

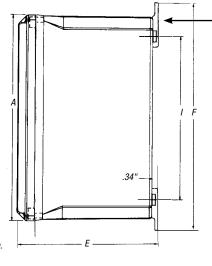


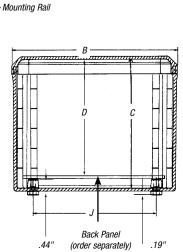
^{**} Order back panels separately.

Circuit Safe® NEMA Enclosures









Individual Components (continued)

| | | • | | | | | | | | | | | | | | |
|----------------|------------|----------------------|-------|-------|----------|------|-------|--------|----------------------------|-------|-----------------------------------|-------|--------------------|--------|--------------|--|
| ENCLOSURE WITH | | ENCLOSURE SIZE (IN.) | | | | | | MOUNTI | ENCLOSURE MOUNTING HOLE | | PANEL Mounting Hole Spacing | | BACK PANEL SIZE | | BACK PANEL** | |
| CLEAR LID | OPAQUE LID | | EIN | LUSUK | E SIZE (| IN.) | | SPA | SPACING | | GING | | ZE | UAI | CAT. NO. | |
| CAT. NO.* | CAT. NO.* | Α | В | C | D | E | F | G | Н | 1 | J | K | L | STEEL | PVC | |
| NV644 | NS644 | 6.40 | 4.40 | 4.49 | 3.98 | 5.13 | 7.69 | 6.75 | 2.00 | 4.29 | 2.28 | 4.88 | 2.88 | JP64 | JP64P | |
| NV664 | NS664 | 6.40 | 6.40 | 4.49 | 3.98 | 5.13 | 7.69 | 6.75 | 4.00 | 4.28 | 4.28 | 4.88 | 4.88 | JP66 | JP66P | |
| NV864 | NS864 | 8.40 | 6.40 | 4.49 | 3.98 | 5.13 | 9.69 | 8.75 | 4.00 | 6.27 | 4.26 | 6.75 | 4.88 | JP86 | JP86P | |
| NV884 | NS884 | 8.40 | 8.40 | 4.49 | 3.98 | 5.13 | 9.69 | 8.75 | 6.00 | 6.30 | 6.30 | 6.75 | 6.88 | JP88 | JP88P | |
| NV1084 | NS1084 | 10.40 | 8.40 | 4.49 | 3.98 | 5.13 | 11.69 | 10.75 | 6.00 | 8.34 | 6.30 | 8.75 | 6.88 | JP108 | JP108P | |
| NV1086 | NS1086 | 10.40 | 8.40 | 6.49 | 5.98 | 7.13 | 11.69 | 10.75 | 6.00 | 8.34 | 6.30 | 8.75 | 6.88 | JP108 | JP108P | |
| NV10106 | NS10106 | 10.40 | 10.40 | 6.49 | 5.98 | 7.13 | 11.69 | 10.75 | 8.00 | 8.29 | 8.29 | 8.75 | 8.88 | JP1010 | JP1010P | |
| NV12106 | NS12106 | 12.40 | 10.40 | 6.49 | 5.98 | 7.13 | 13.69 | 12.75 | 8.00 | 10.30 | 8.28 | 10.75 | 8.88 | JP1210 | JP1210P | |
| NV12126 | NS12126 | 12.40 | 12.40 | 6.49 | 5.98 | 7.13 | 13.69 | 12.75 | 10.00 | 10.24 | 10.24 | 10.75 | 10.88 | JP1212 | JP1212P | |
| NV14126 | NS14126 | 14.40 | 12.40 | 6.49 | 5.98 | 7.13 | 15.69 | 14.75 | 10.00 | 12.26 | 10.24 | 12.75 | 10.88 | JP1412 | JP1412P | |
| NV16146 | NS16146 | 16.40 | 14.40 | 6.49 | 5.98 | 7.13 | 17.69 | 16.75 | 12.00 | 14.26 | 12.26 | 14.75 | 12.88 | JP1614 | JP1612P | |

^{*} Include body, lid and mounting rail kit.

^{**} Order back panels separately (10/32 -3% Back Panel screws not supplied).



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Circuit Safe® NEMA Enclosures

Meets NEMA 1, 2, 3, 3S, 3X, 3SX, 4, 4X, 12.

Hidden-Hinge Covers

Enclosure Kits

| OPAQUE COVER* | CLEAR COVER* | | BACK P | ANELS** | STD. | STD. Wt. (LBS.) |
|------------------|-----------------|------------------------|--------|---------|------|--------------------|
| CAT. NO. | CAT. NO. | SIZE (IN.) | STEEL | PVC | CTN. | OPAQUE/CLEAR |
| NH644 | NI644 | 6 x 4 x 5 [†] | JP64 | JP64P | 1 | Opa 2.2/Clr 2.8 |
| NH664 | NI664 | 6 x 6 x 5 | JP66 | JP66P | 1 | Opa 2.7/Clr 3.2 |
| NH864 | NI864 | 8 x 6 x 5 | JP86 | JP86P | 1 | Opa 3.3/Clr 3.8 |
| NH884 | NI884 | 8 x 8 x 5 | JP88 | JP88P | 1 | Opa 3.8/Clr 3.8 |
| NH1084 | NI1084 | 10 x 8 x 5 | JP108 | JP108P | 1 | Opa 4.0/Clr 4.5 |
| NH1086 | NI1086 | 10 x 8 x 7 | JP108 | JP108P | 1 | Opa 5.2/Clr 5.1 |
| NH10106 | NI10106 | 10 x 10 x 7 | JP1010 | JP1010P | 1 | Opa 5.7/Clr 5.8 |
| NH12106 | NI12106 | 12 x 10 x 7 | JP1210 | JP1210P | 1 | Opa 6.9/Clr 6.1 |
| NH12126 | NI12126 | 12 x 12 x 7 | JP1212 | JP1212P | 1 | Opa 7.7/Clr 7.2 |
| NH14126 | NI14126 | 14 x 12 x 7 | JP1412 | JP1412P | 1 | Opa 8.3/Clr 7.9 |
| NH16146 | NI16146 | 16 x 14 x 7 | JP1614 | JP1614P | 1 | Opa 10.1/Clr 9.6 |

^{*} Include body, cover assembly and mounting rail kit.



Opaque Cover



Clear Cover

Individual Components

| | ENCLOSURE B | ASE* | | | ENCLOS | URE L | IDS | CC | LLARS | | BAC | BACK PANELS** | | | LATCHES | | |
|----------|-------------------------|--------------|-----------------------|----------------------------|---------------------------|--------------|-----------------------|----------|--------------|-----------------------|-------------------|-----------------|--------------|----------------------------|---------------------------------------|--------------|--|
| CAT. NO. | ENCLOSURE Size (in.) | STD. CTN. | STD. WT. (LBS.) | OPAQUE LIDS CAT. NO. | CLEAR LIDS CAT. NO. | STD. CTN. | STD. WT. (LBS.) | CAT. NO. | STD. CTN. | STD. WT. (LBS.) | STEEL CAT. NO. | PVC CAT. NO. | STD. CTN. | STEEL LATCH CAT. NO. | NON- METALLIC LATCH CAT. NO. | STD. CTN. | |
| NP644B | 6 x 4 x 5 [†] | 18 | 21 | NH64L | NI64L | 16 | Opa 6.8/Clr 6.3 | NH64C | 16 | 6 | JP64 | JP64P | 1 | SSLS | NPLIS | 25 | |
| NP664B | 6 x 4 x 5 | 12 | 17 | NH66L | NI66L | 12 | Opa 6.8/Clr 6.3 | NH66C | 12 | 5 | JP66 | JP66P | 1 | SSLS | NPLIS | 25 | |
| NP864B | 8 x 6 x 5 | 12 | 18 | NH86L | NI86L | 9 | Opa 6.3/Clr 5.7 | NH86C | 9 | 4 | JP86 | JP86P | 1 | SSLS | NPLIS | 25 | |
| NP884B | 8 x 8 x 5 | 14 | 28 | NH88L | NI88L | 18 | Opa 16/Clr 15 | NH88C | 9 | 3.6 | JP88 | JP88P | 1 | SSLS | NPLIS | 25 | |
| NP1084B | 10 x 8 x 5 | 12 | 26 | NH108L | NI108L | 12 | Opa 13/Clr 12 | NH108C | 12 | 7.8 | JP108 | JP108P | 1 | SSLS | NPLIS | 25 | |
| NP1086B | 10 x 8 x 7 | 8 | 23 | NH108L | NI108L | 12 | Opa 13/Clr 12 | NH108C | 12 | 7.8 | JP108 | JP108P | 1 | SSLS | NPLIS | 25 | |
| NP1010B | 10 x 10 x 7 | 6 | 20 | NH1010L | NI1010L | 11 | Opa 14/Clr 13 | NH1010C | 11 | 7.5 | JP1010 | JP1010P | 1 | SSLS | NPLIS | 25 | |
| NP1210B | 12 x 10 x 7 ‡ | 6 | 23 | NH1210L | NI1210L | 12 | Opa 17/Clr 6 | NH1210C | 12 | 8 | JP1210 | JP1210P | 1 | SSLS | NPLIS | 25 | |
| NP1212B | 12 x 12 x 7 ‡ | 5 | 22 | NH1212L | NI1212L | 10 | Opa 17/Clr 16 | NH1212C | 12 | 7.7 | JP1212 | JP1212P | 1 | SSLS | NPLIS | 25 | |
| NP1412B | 14 x 12 x 7 ‡ | 5 | 24 | NH1412L | NI1412L | 5 | Opa 10/Clr 10 | NH1412C | 5 | 4.7 | JP1412 | JP1412P | 1 | SSLS | NPLIS | 25 | |
| NP1614B | 16 x 14 x 7 ‡ | 4 | 31 | NH1614L | NI1614L | 5 | Opa 13/Clr 12 | NH1614C | 5 | 5.6 | JP1614 | JP1614P | 1 | SSLS | NPLIS | 25 | |

^{*} Mounting rails are not included. See "Mounting Rails" listed on page A-307.

[‡] Sizes 12 x 10 and larger require two (2) latches per enclosure.



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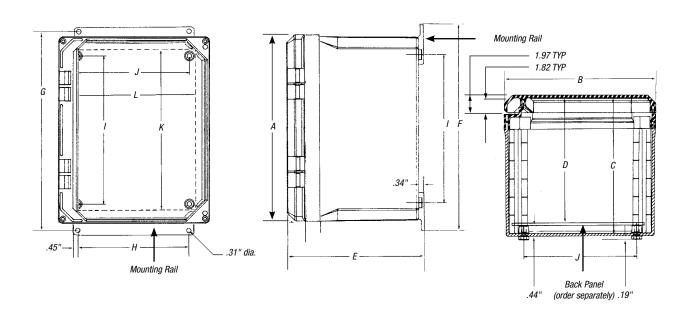
^{**} Order back panels separately.

^{† 6} x 4 x 5 size not available with quick-release latches.

^{**} Order back panels separately.

^{† 6} x 4 x 5 enclosures are not available with quick-release latches.

Circuit Safe® NEMA Enclosures



Individual Components (continued)

| ENCLOSU | | | ENC | CLOSUR | E SIZE (| (IN.) | | MOUI | OSURE NTING PACING | PAI Moun Hole S | | BAC | K PAI | NEL SIZE | | PANEL** Г. NO. |
|-------------------------|------------------------|-------|-------|--------|----------|-------|-------|-------|--------------------------|-----------------------|-------|---|------------|----------|--------|-------------------|
| OPAQUE LID CAT. NO.* | CLEAR LID CAT. NO.* | A | В | С | D | E | F | G | Н | ı | J | . <u>— </u> | | L | STEEL | PVC |
| NH644 | NI644 | 6.40 | 4.40 | 5.30 | 4.79 | 5.94 | 7.69 | 6.75 | 2.00 | 4.29 | 2.28 | 4.8 | 38 | 2.88 | JP64 | JP64P |
| NH664 | NI664 | 6.40 | 6.40 | 5.30 | 4.79 | 5.94 | 7.69 | 6.75 | 4.00 | 4.28 | 4.28 | 4.8 | 38 | 4.88 | JP66 | JP66P |
| NH864 | NI864 | 8.40 | 6.40 | 5.30 | 4.79 | 5.94 | 9.69 | 8.75 | 4.00 | 6.27 | 4.26 | 6.7 | 75 | 4.88 | JP86 | JP86P |
| NH884 | NI884 | 8.40 | 8.40 | 5.30 | 4.79 | 5.94 | 9.69 | 8.75 | 6.00 | 6.30 | 6.30 | 6.7 | ' 5 | 6.88 | JP88 | JP88P |
| NH1084 | NI1084 | 10.40 | 8.40 | 5.30 | 4.79 | 5.94 | 11.69 | 10.75 | 6.00 | 8.34 | 6.30 | 8.7 | ′ 5 | 6.88 | JP108 | JP108P |
| NH1086 | NI1086 | 10.40 | 8.40 | 7.30 | 6.79 | 7.94 | 11.69 | 10.75 | 6.00 | 8.34 | 6.30 | 8.7 | ' 5 | 6.88 | JP108 | JP108P |
| NH10106 | NI10106 | 10.40 | 10.40 | 7.30 | 6.79 | 7.94 | 11.59 | 10.75 | 8.00 | 8.29 | 8.29 | 8.7 | '5 | 8.88 | JP1010 | JP1010P |
| NH12106 | NI12106 | 12.40 | 10.40 | 7.30 | 6.79 | 7.94 | 13.69 | 12.75 | 8.00 | 10.30 | 8.28 | 10. | 75 | 8.88 | JP1210 | JP1210P |
| NH12126 | NI12126 | 12.40 | 12.40 | 7.30 | 6.79 | 7.94 | 13.69 | 12.75 | 10.00 | 10.24 | 10.24 | 10. | 75 | 10.88 | JP1212 | JP1212P |
| NH14126 | NI14126 | 14.40 | 12.40 | 7.30 | 6.79 | 7.94 | 15.69 | 14.75 | 10.00 | 12.26 | 10.24 | 12. | 75 | 10.88 | JP1412 | JP1412P |
| NH16146 | NI16146 | 16.40 | 14.40 | 7.30 | 6.79 | 7.94 | 17.69 | 16.75 | 12.00 | 14.26 | 12.26 | 14. | 75 | 12.88 | JP1614 | JP1612P |

^{*} Include body, lid and mounting rail kit.



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^{**} Order back panels separately (10/32 - 3/8 Back Panel screws not supplied).

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Circuit Safe® NEMA Enclosures

Meets NEMA 1, 2, 3, 3S, 3X, 3SX, 4, 4X, 12.

LISTED E88685

External-Hinge Covers

| Enclosu | re Kits | | | | | |
|------------------------------|-----------------------------|---------------------------|-------------------------|-------------|--------------|------------------------------------|
| OPAQUE COVER* CAT. NO. | CLEAR COVER* CAT. NO. | BACK Panels** Steel | BACK Panels** PVC | SIZE (IN.) | STD. CTN. | STD. Wt. (LBS.) Opaque/Clear |
| NJ664 | NC664 | JP66 | JP66P | 6 x 6 x 4 | 1 | Opa 2.4/Clr 2.4 |
| NJ864 | NC864 | JP86 | JP86P | 8 x 6 x 4 | 1 | Opa 2.9/Clr 2.9 |
| NJ884 | NC884 | JP88 | JP88P | 8 x 8 x 4 | 1 | Opa 3.3/Clr 3.3 |
| NJ1084 | NC1084 | JP108 | JP108P | 10 x 8 x 4 | 1 | Opa 4/Clr 4 |
| NJ1086 | NC1086 | JP108 | JP108P | 10 x 8 x 6 | 1 | Opa 4.6/Clr 4.7 |
| NJ10106 | NC10106 | JP1010 | JP1010P | 10 x 10 x 6 | 1 | Opa 5.6/Clr 5.3 |
| NJ12106 | NC12106 | JP1210 | JP1210P | 12 x 10 x 6 | 1 | Opa 6.3/Clr 5.8 |
| NJ12126 | NC12126 | JP1212 | JP1212P | 12 x 12 x 6 | 1 | Opa 6.9/Clr 6.6 |
| NJ14126 | NC14126 | JP1412 | JP1412P | 14 x 12 x 6 | 1 | Opa 7.7/Clr 7 |
| N 116176 | NC161/6 | ID161/ | ID161/ID | 16 v 14 v 6 | 1 | Ona 8 2/Oir 8 |

^{*} Include body, lid and mounting rail kit.



Opaque Cover



Clear Cover

Individual Components

| | ENCLOSURE BA | SE* | | | ENCLOSU | JRE LID | s | BAC | K PANELS** | ŧ | | LATCHES | |
|----------|-------------------------|--------------|-----------------------|----------------------------|---------------------------|--------------|-----------------------|-------------------|-----------------|--------------|----------------------------|-----------------------------------|--------------|
| CAT. NO. | ENCLOSURE SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) | OPAQUE LIDS CAT. NO. | CLEAR LIDS CAT. NO. | STD. CTN. | STD. WT. (LBS.) | STEEL CAT. NO. | PVC Cat. No. | STD. CTN. | STEEL LATCH CAT. NO. | NON-METALLIC LATCH CAT. NO. | STD. CTN. |
| NL664B | 6 x 6 x 4 | 12 | 18 | NJ66L | NC66L | 12 | Opa 5.0/Clr 5.9 | JP66 | JP66P | 1 | SSLS | NPLIS | 25 |
| NL864B | 8 x 6 x 4 | 8 | 14 | NJ86L | NC86L | 9 | Opa 6/Clr 5.3 | JP86 | JP86P | 1 | SSLS | NPLIS | 25 |
| NL884B | 8 x 8 x 4 | 14 | 28 | NJ88L | NC88L | 18 | Opa 15/Clr 13.5 | JP88 | JP88P | 1 | SSLS | NPLIS | 25 |
| NL1084B | 10 x 8 x 4 | 12 | 32 | NJ108L | NC108L | 12 | Opa 13/Clr 11.7 | JP108 | JP108P | 1 | SSLS | NPLIS | 25 |
| NL1086B | 10 x 8 x 6 | 8 | 15 | NJ108L | NC108L | 12 | Opa 13/Clr 11.7 | JP108 | JP108P | 1 | SSLS | NPLIS | 25 |
| NL1010B | 10 x 10 x 6 | 6 | 20 | NJ1010L | NC1010L | 11 | Opa 14/Clr 13 | JP1010 | JP1010P | 1 | SSLS | NPLIS | 25 |
| NL1210B | 12 x 10 x 6 ‡ | 6 | 24 | NJ1210L | NC1210L | 12 | Opa 14/Clr 15 | JP1210 | JP1210P | 1 | SSLS | NPLIS | 25 |
| NL1212B | 12 x 12 x 6 ‡ | 5 | 21.8 | NJ1212L | NC1212L | 10 | Opa 16/Clr 14 | JP1212 | JP1212P | 1 | SSLS | NPLIS | 25 |
| NL1412B | 14 x 12 x 6 ‡ | 4 | 19 | NJ1412L | NC1412L | 5 | Opa 10/Clr 9 | JP1412 | JP1412P | 1 | SSLS | NPLIS | 25 |
| NL1614B | 16 x 14 x 6 ‡ | 4 | 31 | NJ1614L | NC1614L | 5 | Opa 13.5/Clr 12 | JP1614 | JP1614P | 1 | SSLS | NPLIS | 25 |

^{*} Mounting rails are not included. See Mounting Rails on page A-307.



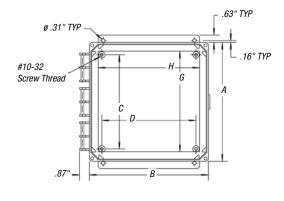
^{**} Order back panels separately.

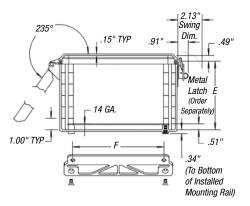
^{**} Order back panels separately.

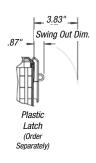
[‡] Sizes 12 x 10 and larger require two (2) latches per enclosure.



Circuit Safe® NEMA Enclosures







Individual Components (continued)

| | SURE WITH | | FNO | CLOSURI | SIZE (I | N.) | | MOU | SURE ITING PACING | MOU | NEL NTING Pacing | | PANEL Ze | | PANEL** [. NO. |
|------------------------|-------------------------|-------|-------|---------|---------|--------|-------|-------|-------------------------|-----------|------------------------|-------|-------------|--------|-------------------|
| CLEAR LID Cat. No.* | OPAQUE LID CAT. NO.* | Α | В | С | D | , Е | F | G | Н | . <u></u> | J | K | L | STEEL | PVC |
| NC644 | NJ644 | 6.40 | 4.40 | 4.49 | 3.98 | 5.13 | 7.69 | 6.75 | 2.00 | 4.29 | 2.28 | 4.88 | 2.88 | JP64 | JP64P |
| NC664 | NJ664 | 6.40 | 6.40 | 4.49 | 3.98 | 5.13 | 7.69 | 6.75 | 4.00 | 4.28 | 4.28 | 4.88 | 4.88 | JP66 | JP66P |
| NC864 | NJ864 | 8.40 | 6.40 | 4.49 | 3.98 | 5.13 | 9.69 | 8.75 | 4.00 | 6.27 | 4.26 | 6.75 | 4.88 | JP86 | JP86P |
| NC884 | NJ884 | 8.40 | 8.40 | 4.49 | 3.98 | 5.13 | 9.69 | 8.75 | 6.00 | 6.30 | 6.30 | 6.75 | 6.88 | JP88 | JP88P |
| NC1084 | NJ1084 | 10.40 | 8.40 | 4.49 | 3.98 | 5.13 | 11.69 | 10.75 | 6.00 | 8.34 | 6.30 | 8.75 | 6.88 | JP108 | JP108P |
| NC1086 | NJ1086 | 10.40 | 8.40 | 6.49 | 5.98 | 7.13 | 11.69 | 10.75 | 6.00 | 8.34 | 6.30 | 8.75 | 6.88 | JP108 | JP108P |
| NC10106 | NJ10106 | 10.40 | 10.40 | 6.49 | 5.98 | 7.13 | 11.69 | 10.75 | 8.00 | 8.29 | 8.29 | 8.75 | 8.88 | JP1010 | JP1010P |
| NC12106 | NJ12106 | 12.40 | 10.40 | 6.49 | 5.98 | 7.13 | 13.69 | 12.75 | 8.00 | 10.30 | 8.28 | 10.75 | 8.88 | JP1210 | JP1210P |
| NC12126 | NJ12126 | 12.40 | 12.40 | 6.49 | 5.98 | 7.13 | 13.69 | 12.75 | 10.00 | 10.24 | 10.24 | 10.75 | 10.88 | JP1212 | JP1212P |
| NC14126 | NJ14126 | 14.40 | 12.40 | 6.49 | 5.98 | 7.13 | 15.69 | 14.75 | 10.00 | 12.26 | 10.24 | 12.75 | 10.88 | JP1412 | JP1412P |
| NC16146 | NJ16146 | 16.40 | 14.40 | 6.49 | 5.98 | 7.13 | 17.69 | 16.75 | 12.00 | 14.26 | 12.26 | 14.75 | 12.88 | JP1614 | JP1614P |

^{*} Include body, lid and mounting rail kit.



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^{**} Order back panels separately (10/32 - $\frac{3}{6}$ Back Panel screws not supplied).

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Circuit Safe® NEMA Enclosures

Quick Reference

Screw-On Cover Styles

| ENCLOSI | JRE KITS DR LATCHES) | | | INDIVIDUAL | COMPONENTS | | |
|-------------|-------------------------|---------|---------|------------|------------|--------|---------|
| (NU PANEL (| JA LATURES) | - | | | _ | BACK I | PANELS |
| OPAQUE LID | CLEAR LID | BODY | LID | COLLAR | MTG. RAILS | STEEL | PVC |
| NS644 | | NP644B | NS64L | N/A | NMK4V | JP64 | JP64P |
| | NV644 | NP644B | NV64L | N/A | NMK4V | JP64 | JP64P |
| NS664 | | NP664B | NS66L | N/A | NMK6V | JP66 | JP66P |
| | NV664 | NP664B | NV66L | N/A | NMK6V | JP66 | JP66P |
| NS864 | | NP864B | NS86L | N/A | NMK6V | JP86 | JP86P |
| | NV864 | NP864B | NV86L | N/A | NMK6V | JP86 | JP86P |
| NS884 | | NP884B | NS88L | N/A | NMK8V | JP88 | JP88P |
| | NV884 | NP884B | NV88L | N/A | NMK8V | JP88 | JP88P |
| NS1084 | | NP1084B | NS108L | N/A | NMK8V | JP108 | JP108P |
| | NV1084 | NP1084B | NV108L | N/A | NMK8V | JP108 | JP108P |
| NS1086 | | NP1086B | NS108L | N/A | NMK8V | JP108 | JP108P |
| | NV1086 | NP1086B | NV108L | N/A | NMK8V | JP108 | JP108P |
| NS10106 | | NP1010B | NS1010L | N/A | NMK10V | JP1010 | JP1010P |
| | NV10106 | NP1010B | NV1010L | N/A | NMK10V | JP1010 | JP1010P |
| NS12106 | | NP1210B | NS1210L | N/A | NMK10V | JP1210 | JP1210P |
| | NV12106 | NP1210B | NV1210L | N/A | NMK10V | JP1210 | JP1210P |
| NS12126 | | NP1212B | NS1212L | N/A | NMK12V | JP1212 | JP1212P |
| | NV12126 | NP1212B | NV1212L | N/A | NMK12V | JP1212 | JP1212P |
| NS14126 | | NP1412B | NS1412L | N/A | NMK12V | JP1412 | JP1412P |
| | NV14126 | NP1412B | NV1412L | N/A | NMK12V | JP1412 | JP1412P |
| NS16146 | | NP1614B | NS1614L | N/A | NMK14V | JP1614 | JP1614P |
| | NV16146 | NP1614B | NV1614L | N/A | NMK14V | JP1614 | JP1614P |

External-Hinge Cover Styles

| ENCLOSU | RE KITS | | | | INDIV | DUAL COMPON | ENTS | | |
|-------------|------------|---------|---------|--------|------------|-------------|----------|-----------|--------------|
| (NO PANEL O | R LATCHES) | | | | | BACI | (PANELS | LATCHES (| QTY. NEEDED) |
| OPAQUE LID | CLEAR LID | BODY | LID | COLLAR | MTG. RAILS | STEEL | PVC | STEEL | NON-METALLIC |
| NJ644 | | NL644B | NJ64L | N/A | NMK4V | JP64 | JP64P | SSLS (1) | NPL1S (1) |
| | NC644 | NL644B | NC64L | N/A | NMK4V | JP64 | JP64P | SSLS (1) | NPL1S (1) |
| NJ664 | | NL664B | NJ66L | N/A | NMK6V | JP66 | JP66P | SSLS (1) | NPL1S (1) |
| | NC664 | NL664B | NC66L | N/A | NMK6V | JP66 | JP66P | SSLS (1) | NPL1S (1) |
| NJ864 | | NL864B | NJ86L | N/A | NMK6V | JP86 | JP86P | SSLS (1) | NPL1S (1) |
| | NC864 | NL864B | NC86L | N/A | NMK6V | JP86 | JP86P | SSLS (1) | NPL1S (1) |
| NJ884 | | NL884B | NJ88L | N/A | NMK8V | JP88 | JP88P | SSLS (1) | NPL1S (1) |
| | NC884 | NL884B | NC88L | N/A | NMK8V | JP88 | JP88P | SSLS (1) | NPL1S (1) |
| NJ1084 | | NL1084B | NJ108L | N/A | NMK8V | JP108 | JP108P | SSLS (1) | NPL1S (1) |
| | NC1084 | NL1084B | NC108L | N/A | NMK8V | JP108 | JP108P | SSLS (1) | NPL1S (1) |
| NJ1086 | | NL1086B | NJ108L | N/A | NMK8V | JP108 | JP108P | SSLS (1) | NPL1S (1) |
| | NC1086 | NL1086B | NC108L | N/A | NMK8V | JP108 | JP108P | SSLS (1) | NPL1S (1) |
| NJ10106 | | NL1010B | NJ1010L | N/A | NMK10V | JP1010 | JP1010P | SSLS (1) | NPL1S (1) |
| | NC10106 | NL1010B | NC1010L | N/A | NMK10V | JP1010 | JP1010P | SSLS (1) | NPL1S (1) |
| NJ12106 | | NL1210B | NJ1210L | N/A | NMK10V | JP1210 | JP1210P | SSLS (2) | NPL1S (2) |
| | NC12106 | NL1210B | NC1210L | N/A | NMK10V | JP1210 | JP1210P | SSLS (2) | NPL1S (2) |
| NJ12126 | | NL1212B | NJ1212L | N/A | NMK12V | JP1212 | JP1212P | SSLS (2) | NPL1S (2) |
| | NC12126 | NL1212B | NC1212L | N/A | NMK12V | JP1212 | JP1212P | SSLS (2) | NPL1S (2) |
| NJ14126 | | NL1412B | NJ1412L | N/A | NMK12V | JP1412 | JP1412P | SSLS (2) | NPL1S (2) |
| | NC14126 | NL1412B | NC1412L | N/A | NMK12V | JP1412 | JP1412P | SSLS (2) | NPL1S (2) |
| NJ16146 | | NL1614B | NJ1614L | N/A | NMK14V | JP1614 | JP1614P | SSLS (2) | NPL1S (2) |
| | NC16146 | NL1614B | NC1614L | N/A | NMK14V | JP1614 | JP1614P | SSLS (2) | NPL1S (2) |



United States Tec Tel: 901.252.8000 Tel:

Tel: 901.252.8000 800.816.7809 Fax: 901.252.1354 **Technical Services** Tel: 888.862.3289

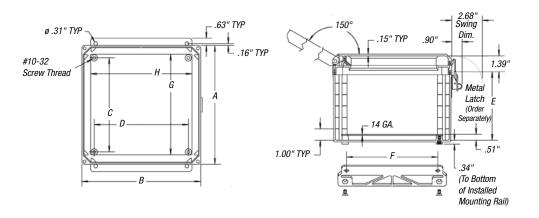


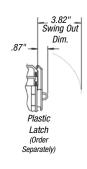


Circuit Safe® NEMA Enclosures

Hidden-Hinge Cover Styles

| ENCLOSU | IDE VITO | | | | INDIV | DUAL COMPON | ENTS | | |
|---------------|--------------|---------|---------|---------|------------|-------------|----------|------------|------------------|
| (NO PANEL O | | | | | _ | BACI | (PANELS | LATCHES (Q | TY. NEEDED) |
| OPAQUE LID | CLEAR LID | BODY | LID | COLLAR | MTG. RAILS | STEEL | PVC | STEEL | NON- METALLIC |
| NH644 | | NP644B | NH64L | NH64C | NMK4V | JP64 | JP64P | SSLL (1) | NPL1L (1) |
| | NI644 | NP644B | NI64L | NH64C | NMK4V | JP64 | JP64P | SSLL (1) | NPL1L (1) |
| NH664 | | NP664B | NH66L | NH66C | NMK6V | JP66 | JP66P | SSLL (1) | NPL1L (1) |
| | NI664 | NP664B | NI66L | NH66C | NMK6V | JP66 | JP66P | SSLL (1) | NPL1L (1) |
| NH864 | | NP864B | NH86L | NH86C | NMK6V | JP86 | JP86P | SSLL (1) | NPL1L (1) |
| | NI864 | NP864B | NI86L | NH86C | NMK6V | JP86 | JP86P | SSLL (1) | NPL1L (1) |
| NH884 | | NP884B | NH88L | NH88C | NMK8V | JP88 | JP88P | SSLL (1) | NPL1L (1) |
| | NI884 | NP884B | NI88L | NH88C | NMK8V | JP88 | JP88P | SSLL (1) | NPL1L (1) |
| NH1084 | | NP1084B | NH108L | NH108C | NMK8V | JP108 | JP108P | SSLL (1) | NPL1L (1) |
| | NI1084 | NP1084B | NI108L | NH108C | NMK8V | JP108 | JP108P | SSLL (1) | NPL1L (1) |
| NH1086 | | NP1086B | NH108L | NH108C | NMK8V | JP108 | JP108P | SSLL (1) | NPL1L (1) |
| | NI1086 | NP1086B | NI108L | NH108C | NMK8V | JP108 | JP108P | SSLL (1) | NPL1L (1) |
| NH10106 | | NP1010B | NH1010L | NH1010C | NMK10V | JP1010 | JP1010P | SSLL (1) | NPL1L (1) |
| | NI10106 | NP1010B | NI1010L | NH1010C | NMK10V | JP1010 | JP1010P | SSLL (1) | NPL1L (1) |
| NH12106 | | NP1210B | NH1210L | NH1210C | NMK10V | JP1210 | JP1210P | SSLL (2) | NPL1L (2) |
| | NI12106 | NP1210B | NI1210L | NH1210C | NMK10V | JP1210 | JP1210P | SSLL (2) | NPL1L (2) |
| NH12126 | | NP1212B | NH1212L | NH1212C | NMK12V | JP1212 | JP1212P | SSLL (2) | NPL1L (2) |
| | NI12126 | NP1212B | NI1212L | NH1212C | NMK12V | JP1212 | JP1212P | SSLL (2) | NPL1L (2) |
| NH14126 | | NP1412B | NH1412L | NH1412C | NMK12V | JP1412 | JP1412P | SSLL (2) | NPL1L (2) |
| | NI14126 | NP1412B | NI1412L | NH1412C | NMK12V | JP1412 | JP1412P | SSLL (2) | NPL1L (2) |
| NH16146 | | NP1614B | NH1614L | NH1614C | NMK14V | JP1614 | JP1614P | SSLL (2) | NPL1L (2) |
| | NI16146 | NP1614B | NI1614L | NH1614C | NMK14V | JP1614 | JP1614P | SSLL (2) | NPL1L (2) |







Fax: 901.252.1354

Carlon®

Circuit Safe® JIC Enclosures

Circuit Safe® JIC Enclosures

Manufactured from structural foam thermoplastic, Carlon® Circuit Safe® JIC enclosures provide high-impact strength to eliminate dents and deformations along with high dielectric strength, excellent weathering capabilities and excellent resistance to a wide range of corrosive agents, acids, alkalines and salts. These UL Approved and CSA Recognized enclosures also withstand wet and dirty environments, while their thick-wall construction make them a particularly good choice wherever condensation is a concern. Rated for use in Type 1, 3, 3S, 3X, 3SX, 4, 4X, 12 and 13 environments, Carlon® Circuit Safe® JIC enclosures are suited for virtually all indoor/outdoor industrial, MRO and OEM applications. They are available in 10 sizes from 6 x 6 x 5 through 30 x 24 x 12 with a choice of screw or hinged design, opaque covers or clear polycarbonate covers that protect devices from hostile environments while enabling monitoring of instrumentation and/or electrical functions.



Features:

- · Hinge caps make covers captive
- Non-metallic molded-in hinges on hinged models
- No rough corners, sharp edges or burrs
- Non-conductive eliminates danger of electrical shock
- · Lid design provides greater usable internal volume
- · Ample interior space for ease of wiring
- Fully gasketed
- · Ultraviolet stabilized for outdoor use

Applications:

- Instrument case
- Junction and terminal boxes
- Control and switching enclosures
- Splice and pull boxes
- Starter, pushbutton and transformer housings
- · Meter and transformer cabinets

Standards:

- Meets NEMA Types 1, 3, 3S, 3X, 3SX, 4, 4X, 12, 13 as indicated
- UL[®] Listed per UL 50, enclosures for electrical equipment
- CSA Certified
- JIC compliance





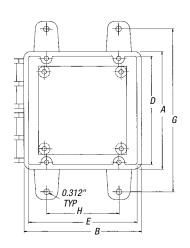
Circuit Safe® JIC Enclosures

Meets NEMA 1, 3, 3S, 3X, 3SX, 4, 4X, 12, 13.

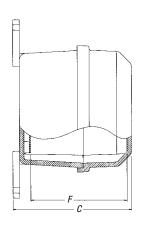
Hinged Covers

Features:

- Non-metallic mounting feet and all mounting hardware included
- White-painted 14-gauge steel or ½" PVC back panel (order separately)
- 304 (18-8) stainless steel screws (10-32/11/8")
- · Lid design provides greater usable internal volume
- · Completely non-metallic hinges
- · Brass screw inserts
- Temperature range: -30° to 230° F
- Material: polycarbonate molded base and cover











Factory Assembled

| | | | | | DIMENS | IONS (IN | l.) | | | | | PANEL* | | |
|-----------------|----------------|-------|--------|------|--------|----------|------|-------|-------|---------------------------|--------|---------|---------------|--------------------|
| OPAQUE COVER | CLEAR COVER | E | XTERNA | L | II | NTERNA | L | MOUI | NTING | STD. WT. (LBS.) | CAT | . NO. | PANEL | STD. WT. (LBS.) |
| CAT. NO. | CAT. NO. | Α | В | С | D | E | F | G | Н | OPAQUE/CLEAR | STEEL | PVC | SIZE (IN.) | STEEL/PVC |
| CJ665 | CC665 | 6.50 | 6.50 | 6.69 | 6.00 | 6.00 | 5.45 | 9.00 | 4.00 | 1 (Opa 3.5)/1 (Clr 3.1) | JP66 | JP66P | 4.88 x 4.88 | 1 (1.0)/1 (0.3) |
| CJ863 | CC863 | 8.50 | 6.50 | 4.49 | 8.00 | 6.00 | 3.25 | 11.00 | 4.00 | 1 (Opa 2.8)/1 (Clr 3.1) | JP86 | JP86P | 6.75 x 4.88 | 1 (1.0)/1 (0.78) |
| CJ1085 | CC1085 | 10.50 | 8.50 | 6.69 | 10.00 | 8.00 | 5.45 | 13.00 | 6.00 | 1 (Opa 5.2)/1 (Clr 5.2) | JP108 | JP108P | 8.75 x 6.88 | 1 (1.5)/1 (0.7) |
| CJ12106 | CC12106 | 12.50 | 10.50 | 7.69 | 12.00 | 10.00 | 6.45 | 15.00 | 8.00 | 1 (Opa 7.1)/1 (Clr 8.4) | JP1210 | JP1210P | 10.75 x 8.88 | 1 (2.0)/1 (1.2) |
| CJ14126 | CC14126 | 14.50 | 12.50 | 7.72 | 14.00 | 12.00 | 6.48 | 17.00 | 10.00 | 1 (Opa 9.0)/1 (Clr 8.6) | JP1412 | JP1412P | 12.75 x 10.88 | 1 (3.2)/1 (1.7) |
| CJ16147 | CC16147 | 16.50 | 14.50 | 8.46 | 16.00 | 14.00 | 7.22 | 19.00 | 12.00 | 1 (Opa 10.6)/1 (Clr 11.9) | JP1614 | JP1614P | 14.75 x 12.88 | 1 (4.7)/1 (2.3) |

*Order back panels separately.

Enclosures shipped with mounting feet, hinge caps and screws.

For factory-installed pad-lockable latch (part no. CJTL), consult Customer Service for price and delivery.



800.816.7809

Fax: 901.252.1354

Carlon®

Circuit Safe® JIC Enclosures

Meets NEMA 1, 3, 3S, 3X, 3SX, 4, 4X, 12, 13.



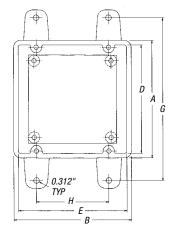


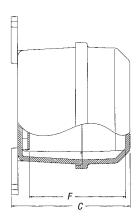
Screw-On Covers

Features:

- Non-metallic mounting feet and all mounting hardware included
- 304 (18-8) stainless steel screws (10-32/1½")
- · Brass screw inserts
- Clear polycarbonate cover available
- White-painted 14-gauge steel or ¼" PVC back panel (order separately)
- · Lid design provides greater usable internal volume
- Temperature range: -30° to 230° F
- Material: polycarbonate molded base and cover







Factory Assembled

| | | | | D | IMENSI | ONS (IN. | .) | | | | | PANEL* | | |
|-----------------|----------------|-------|--------|------|--------|----------|------|-------|-------|---------------------------|--------|---------|---------------|-----------------|
| OPAQUE COVER | CLEAR COVER | E | XTERNA | L | II | NTERNA | L | MOUI | NTING | STD. WT. (LBS.) | CA | T. NO. | PANEL | STD. WT. (LBS.) |
| CAT. NO. | CAT. NO. | Α | В | С | D | E | F | G | Н | OPAQUE/CLEAR | STEEL | PVC | SIZE (IN.) | STEEL/PVC |
| CS665 | CV665 | 6.50 | 6.50 | 6.69 | 6.00 | 6.00 | 5.45 | 9.00 | 4.00 | 1 (Opa 2.7)/1 (Clr 2.9) | JP66 | JP66P | 4.88 x 4.88 | 1 (1.0)/1 (0.3) |
| CS863 | CV863 | 8.50 | 6.50 | 4.49 | 8.00 | 6.00 | 3.25 | 11.00 | 4.00 | 1 (Opa 2.9)/1 (Clr 2.9) | JP86 | JP86P | 6.75 x 4.88 | 1 (1.0)/1 (0.4) |
| CS1085 | CV1085 | 10.50 | 8.50 | 6.69 | 10.00 | 8.00 | 5.45 | 13.00 | 6.00 | 1 (Opa 5.0)/1 (Clr 5.0) | JP108 | JP108P | 8.75 x 6.88 | 1 (1.5)/1 (0.7) |
| CS12106 | CV12106 | 12.50 | 10.50 | 7.69 | 12.00 | 10.00 | 6.45 | 15.00 | 8.00 | 1 (Opa 6.5)/1 (Clr 7.2) | JP1210 | JP1210P | 10.75 x 8.88 | 1 (2.0)/1 (1.2) |
| CS14126 | CV14126 | 14.50 | 12.50 | 7.72 | 14.00 | 12.00 | 6.48 | 17.00 | 10.00 | 1 (Opa 8.0)/1 (Clr 8.8) | JP1412 | JP1412P | 12.75 x 10.88 | 1 (3.2)/1 (1.7) |
| CS16147 | CV16147 | 16.50 | 14.50 | 8.46 | 16.00 | 14.00 | 7.22 | 19.00 | 12.00 | 1 (Opa 11.5)/1 (Clr 10.8) | JP1614 | JP1614P | 14.75 x 12.88 | 1 (4.7)/1 (2.3) |

*Order back panels separately.

Enclosures shipped with mounting feet and panel mounting hardware





Circuit Safe® JIC Enclosures

Meets NEMA 1, 3, 3S, 3X, 3SX, 4, 4X, 12, 13.

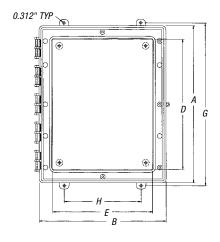
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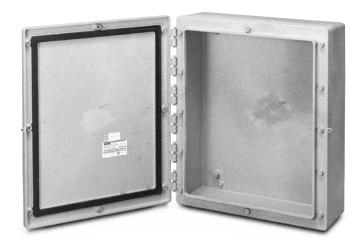


Medium Hinged Covers

Features:

- Non-metallic mounting feet and all mounting hardware included
- White-painted 14-gauge steel or ¼" PVC back panel (order separately)
- 304 (18-8) stainless steel screws (10-32/11/8")
- · Completely non-metallic hinges
- · Brass screw inserts
- Temperature range: -40° to 185° F
- · Material: NORYL base and cover







Factory Assembled

| | | | | DIMENSIO | NS (IN.) | | | | | BACK | PANEL* | | |
|----------|-------|----------|-------|----------|----------|-------|-------|-------|-----------------|--------|---------|------------|------------------|
| | | EXTERNAL | | _ | INTERNAL | | MOUN | ITING | | CAT | . NO. | PANEL | STD. WT. (LBS.) |
| CAT. NO. | A | В | С | D | E | F | G | Н | STD. WT. (LBS.) | STEEL | PVC | SIZE (IN.) | STEEL/PVC |
| C2016A4 | 20.50 | 16.50 | 8.36 | 17.25 | 13.25 | 6.28 | 21.26 | 10.00 | 1 (15.1) | NP2016 | NP2016P | 17 x 13.25 | 1 (7.0)/1 (6.1) |
| C2016B4 | 20.50 | 16.50 | 10.36 | 17.25 | 13.25 | 8.28 | 21.26 | 10.00 | 1 (17.2) | NP2016 | NP2016P | 17 x 13.25 | 1 (7.0)/1 (6.1) |
| C2016C4 | 20.50 | 16.50 | 12.36 | 17.25 | 13.25 | 10.28 | 21.26 | 10.00 | 1 (19.7) | NP2016 | NP2016P | 17 x 13.25 | 1 (7.0)/1 (6.1) |
| C2420A4 | 24.50 | 20.50 | 8.36 | 21.25 | 17.25 | 6.28 | 25.26 | 14.00 | 1 (21.5) | NP2420 | NP2420P | 21 x 17 | 1 (10.4)/1 (4.7) |
| C2420B4 | 24.50 | 20.50 | 10.36 | 21.25 | 17.25 | 8.28 | 25.26 | 14.00 | 1 (24) | NP2420 | NP2420P | 21 x 17 | 1 (10.4)/1 (4.7) |
| C2420C4 | 24.50 | 20.50 | 12.36 | 21.25 | 17.25 | 10.28 | 25.26 | 14.00 | 1 (24.9) | NP2420 | NP2420P | 21 x 17 | 1 (10.4)/1 (4.7) |
| C3024A4 | 30.50 | 24.50 | 8.36 | 27.25 | 21.25 | 6.28 | 31.26 | 18.00 | 1 (28.4) | NP3024 | NP3024P | 27 x 21 | 1 (18.0)/1 (9.8) |
| C3024B4 | 30.50 | 24.50 | 10.36 | 27.25 | 21.25 | 8.28 | 31.26 | 18.00 | 1 (31.4) | NP3024 | NP3024P | 27 x 21 | 1 (18.0)/1 (9.8) |
| C3024C4 | 30.50 | 24.50 | 12.36 | 27.25 | 21.25 | 10.28 | 31.26 | 18.00 | 1 (33.8) | NP3024 | NP3024P | 27 x 21 | 1 (18.0)/1 (9.8) |

800.816.7809

Fax: 901.252.1354

*Order back panels separately.

*Enclosure only available with opaque hinged cover.

Enclosures shipped with mounting feet, hinge caps and screws.

For factory-installed pad-lockable latch (part no. CJTL), consult Customer Service for price and delivery.



Tel: 88



A-287

Carlon®

Circuit Safe® JIC Enclosures

Meets NEMA 1, 3, 3S, 3X, 3SX, 4, 4X, 12, 13.





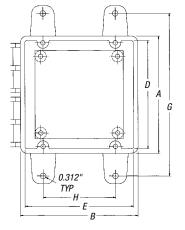
Hinged Window Cover

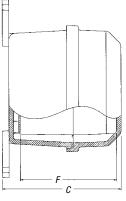
Features:

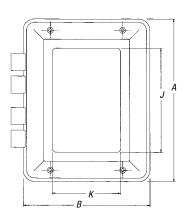
- Non-metallic mounting feet and all mounting hardware included
- 304 (18-8) stainless steel screws (10-32/11/8")
- White-painted 14-gauge steel or ¼" PVC back panel (order separately)
- · Completely non-metallic hinges
- · Lid design provides greater usable internal volume
- · Brass screw inserts
- Material: polycarbonate molded base and cover

Note: Window material 1/8" thick, clear polycarbonate is permanently bonded to the cover.









Factory Assembled

| | | | | | DIMENSI | ONS (IN. |) | | | | | BACK I | PANEL* | | |
|----------|-------|-------|------|-------|---------|----------|-------|------|---------|-------|----------|--------|---------|--------------|--------------------------|
| | | EXTE | RNAL | | ı | NTERNA | L | N | IOUNTIN | G | STD. WT. | CAT | . NO. | PANEL SIZE | STD. WT. (LBS.)STEEL/ |
| CAT. NO. | Α | В | С | D | E | F | G | Н | J | K | (LBS.) | STEEL | PVC | (IN.) | PVC |
| J665W | 6.50 | 6.50 | 6.69 | 6.00 | 6.00 | 5.45 | 9.00 | 4.00 | 3.75 | 3.75 | 1 (3.1) | JP66 | JP66P | 4.88 x 4.88 | 1 (1.0)/1 (0.3) |
| J863W | 8.50 | 6.50 | 4.49 | 8.00 | 6.00 | 3.25 | 11.00 | 4.00 | 3.75 | 3.75 | 1 (3.2) | JP86 | JP86P | 6.75 x 4.88 | 1 (1.0)/1 (0.78) |
| J1085W | 10.50 | 8.50 | 6.69 | 10.00 | 8.00 | 5.45 | 13.00 | 6.00 | 7.75 | 5.75 | 1 (5.6) | JP108 | JP108P | 8.75 x 6.88 | 1 (1.5)/1 (0.7) |
| J12106W | 12.50 | 10.50 | 7.69 | 12.00 | 10.00 | 6.45 | 15.00 | 8.00 | 9.75 | 7.75 | 1 (7.4) | JP1210 | JP1210P | 10.75 x 8.88 | 1 (2.0)/1 (1.2) |

Enclosures shipped with mounting feet, hinge caps and screws.

*Order back panels separately.

For factory-installed pad-lockable quick-release latch (part no. CJTL), consult Customer Service for price and delivery.





Circuit Safe® Pushbutton Enclosures

Circuit Safe® Pushbutton Enclosures

Circuit Safe® Non-Metallic Pushbutton Enclosures are molded from engineered thermoplastic material that is resistant to most corrosive agents. Whether predrilled 1-2-3 hole enclosures, blank cover enclosures or enclosures with multiple hole openings, Carlon's pushbutton enclosure series offers high-impact strength, chemical resistance, high dielectric strength and excellent durability for the correct application.

Features:

- Engineered thermoplastic base and cover
- 304 stainless steel screws
- Brass screw inserts
- · High-impact strength
- Temperature range: -40° to 185° F
- UL94-V2

Applications:

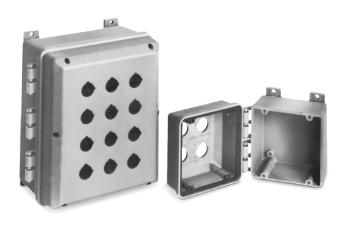
- Standard oil-tight pushbuttons, switches and pilot lights
- Conduit entries
- Junction boxes
- MRO and OEM applications

Standards:

- Standards vary by product
- Screw cover pushbutton enclosures with 1-2-3 hole openings are listed per UL 50 for industrial controls
- Narrow-profile blank-screw cover enclosures are listed per UL 50 for industrial controls and meet NEMA Type 1, 3, 3S, 3X, 3SX, 4, 4X, 12 and 13
- Non-metallic hinged cover enclosures with multiple hole openings are UL Listed







Circuit Safe® Pushbutton Enclosures

UL° Listed per UL 50 for Industrial Controls.



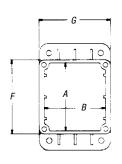


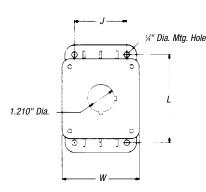
Screw Cover Enclosures with 1-2-3 Hole Openings

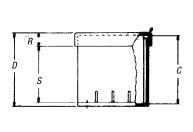
Wallmount pushbutton enclosures are molded from gray, engineered thermoplastic material that is resistant to most corrosive agents. Universal pushbutton holes are designed to accommodate all standard oil-tight pushbuttons, switches and pilot lights. A grounding plate is included on the cover. Auxiliary devices must be rated for appropriate NEMA applications.

Features:

- 30.5mm keyed pushbutton holes*
- Material: nylon base and cover
- Integrally molded mounting flange
- · Brass screw inserts
- 304 (18-8) stainless screws (8-32/%")
- Temperature range: -40° to 185°F
- UL94-V2







30.5mm Pushbutton Enclosures †

| | | | | OVERALL OUTSIDE | | | | | | STD. |
|----------|----------------|------------------------------|-------------------|---|------|------|-----|-----|--------------|---------------|
| CAT. NO. | STYLE | INSIDE BOX SIZE A X B X C | MOUNTING L X J | INCLUDING MOUNTING Bracket H X W X D | F | G | R | s | STD. CTN. | WT. (LBS.) |
| CP100N | One Opening | 3.13 x 2.81 x 3 | 4 x 2.38 | 4.88 x 3.50 x 3.38 | 3.38 | 3.25 | .63 | 2.5 | 12 | 9 |
| CP200N | Two Openings | 5.38 x 2.81 x 3 | 6.25 x 2.38 | 7.13 x 3.50 x 3.38 | 5.63 | 3.25 | .63 | 2.5 | 8 | 8 |
| CP300N | Three Openings | 7.38 x 2.81 x 3 | 8.50 x 2.38 | 9.38 x 3.50 x 3.38 | 7.88 | 3.25 | .63 | 2.5 | 6 | 7.60 |

22mm Pushbutton Enclosures *1

| | | INSIDE BOX SIZE | MOUNTING | OVERALL OUTSIDE INCLUDING MOUNTING | | | | | STD. | STD. WT. |
|----------|----------------|-----------------|-------------|------------------------------------|------|------|-----|-----|------|-------------|
| CAT. NO. | STYLE | A X B X C | L X J | BRACKET H X W X D | F | G | R | S | CTN. | (LBS.) |
| PX0010 | One Opening | 3.13 x 2.81 x 3 | 4 x 2.38 | 4.88 x 3.50 x 3.38 | 3.38 | 3.25 | .63 | 2.5 | 10 | 8.26 |
| PX0007 | Two Openings | 5.38 x 2.81 x 3 | 6.25 x 2.38 | 7.13 x 3.50 x 3.38 | 5.63 | 3.25 | .63 | 2.5 | 1 | 1.31 |
| PX0011 | Three Openings | 7.38 x 2.81 x 3 | 8.50 x 2.38 | 9.38 x 3.50 x 3.38 | 7.88 | 3.25 | .63 | 2.5 | 6 | 9.43 |
| PX0008 | Four Openings | 7.38 x 2.81 x 3 | 8.50 x 2.38 | 9.38 x 3.50 x 3.38 | 7.88 | 3.25 | .63 | 2.5 | 1 | 1.60 |

^{*} All Circuit Safe pushbutton enclosures are furnished with standard hole dimensions: 11/22" diameter with keyways at 12 o'clock and 3 o'clock

[†] Dimensions are in inches unless marked otherwise. Operators not included.



United States

Tel: 901.252.8000 800.816.7809 Fax: 901.252.1354 Technical Services
Tel: 888.862.3289



Circuit Safe® Pushbutton Enclosures

UL° Listed per UL 50 for Industrial Controls. Meets NEMA 1, 3, 3S, 3X, 3SX, 4, 4X, 12, 13.



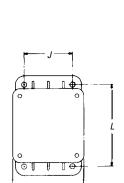


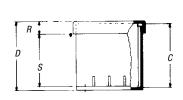
Narrow-Profile Blank Screw Cover Enclosures for Small Instrumentation and Control Applications

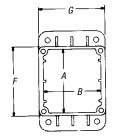
Blank cover enclosures can be easily drilled with a standard hole saw for conduit entries and pushbuttons. Wallmount enclosures are molded from gray, engineered thermoplastic material and are resistant to most corrosive agents.

Features:

- Brass screw inserts
- · Material: nylon base and cover
- · Integrally molded mounting flange
- 304 (18-8) stainless screws (10-32/3/8")
- Temperature range: -40° to 185° F







Blank Screw Cover Enclosures *1

| | | INSIDE BOX SIZE | MOUNTING | OVERALL OUTSIDE INCLUDING MOUNTING | | | | | STD. | STD. WT. |
|----------|-------------|-----------------|-------------|------------------------------------|------|------|-----|-----|------|-------------|
| CAT. NO. | STYLE | AXBXC | LXJ | BRACKET H X W X D | F | G | R | S | CTN. | (LBS.) |
| CP100NB | Blank Cover | 3.13 x 2.81 x 3 | 4 x 2.38 | 4.88 x 3.50 x 3.38 | 3.38 | 3.25 | .63 | 2.5 | 12 | 9.60 |
| CP200NB | Blank Cover | 5.38 x 2.81 x 3 | 6.25 x 2.38 | 7.13 x 3.50 x 3.38 | 5.63 | 3.25 | .63 | 2.5 | 8 | 8.8 |
| CP300NB | Blank Cover | 7.38 x 2.81 x 3 | 8.50 x 2.38 | 9.38 x 3.50 x 3.38 | 7.88 | 3.25 | .63 | 2.5 | 6 | 8.20 |

^{*} All Circuit Safe pushbutton enclosures are furnished with standard hole dimensions: 11/2" diameter with keyways at 12 o'clock and 3 o'clock

[†] Dimensions are in inches unless marked otherwise.

<u>Carlon</u>

Circuit Safe® Pushbutton Enclosures

Hinged Cover Enclosures with Multiple Hole Openings

Made from engineered thermoplastic material, these enclosures are ideal for applications that require high-impact strength, chemical resistance, high dielectric strength and excellent weathering capabilities, including indoor/outdoor industrial, MRO and OEM applications. Non-metallic hinges are an integral part of the mold. Removable cover enables easy field adjustment. Auxiliary devices must be rated for appropriate NEMA applications.

Features:

- Non-metallic mounting feet and all mounting hardware included
- White-painted 14-gauge steel or 1½" PVC back panel (order separately)
- Material: engineered thermoplastic base and cover
- 304 stainless steel screws
- Brass screw inserts
- · Lid design provides greater usable volume
- · Completely non-metallic hinges
- Temperature range: -40° to 185° F



Screw Cover Pushbutton Enclosures with Multiple 30.5mm Openings*

| CAT. NO. | OPENINGS | INSIDE BOX SIZE (IN.) | WEIGHT (LBS.) | STD. CTN. | PANEL CAT. NO. | SIZE (IN.) Steel/PVC |
|----------|----------|--------------------------|------------------|--------------|-------------------|-------------------------|
| J665P | 4 | 6 x 6 x 5.88 | 2.42 | 1 | JP66 / JP66P | 4.88 x 4.88 |
| J863P | 6 | 8 x 6 x 3.63 | 1.86 | 1 | JP86 / JP86P | 6.75 x 4.88 |
| J1085P | 9 | 10 x 8 x 5.88 | 3.59 | 1 | JP108 / JP108P | 8.75 x 6.88 |
| J12106P | 12 | 12 x 10 x 6.88 | 4.29 | 1 | JP1210 / JP1210P | 10.75 x 8.88 |
| J14126P | 20 | 14 x 12 x 6.88 | 7.19 | 1 | JP1412 / JP1412P | 12.75 x 10.88 |
| J16147P | 25 | 16 x 14 x 7.63 | 11.20 | 1 | JP1614 / JP1614P | 14.75 x 12.88 |

For enclosures larger than 25 position, please call Customer Service.

* All Circuit Safe pushbutton enclosures are furnished with standard hole dimensions:

11/32" diameter with keyways at 12 o'clock and 3 o'clock.

Special openings or positionings available on request.



Technical Services Tel: 888.862.3289





Circuit Safe® Enclosure Accessories

Circuit Safe® NEMA Accessories

Gasketed Pushbutton Hole Plug



| CAT. NO. | SIZE | STD. CTN. | STD. WT. (LBS.) |
|----------|------------------|--------------|--------------------|
| CP900 | Standard PB Hole | 100 | 2.0 |

Mounting Rail Kits



| | SIZE | STD. | STD. |
|----------|-------|------|------------|
| CAT. NO. | (IN.) | CTN. | WT. (LBS.) |
| NMK4V | 4 | 25 | 5 |
| NMK6V | 6 | 24 | 7.7 |
| NMK8V | 8 | 24 | 10.25 |
| NMK10V | 10 | 20 | 13.26 |
| NMK12V | 12 | 20 | 11.4 |
| NMK14V | 14 | 25 | 17.76 |

^{*}Mounting Rails include two rails and four stainless steel screws.

Panel Adjuster Kits





180° Swing-Out Panel Kit (NBPSWG)



Swing-Out Panel Adjuster Kit (NBPSWG2)

| CAT. NO. | PRODUCT | DESCRIPTION | STD. CTN. | STD. WT. (LBS.) |
|----------|-----------------|----------------------------------|--------------|--------------------|
| | | | | |
| NBPADJ2 | Panel | (4) Panel Adjusters | 10 Kits | 2.07 |
| | Adjuster Kit | (4) #10-32 Screws to Mount Panel | | |
| NBPSWG | 180° Swing-Out | (4) Panel Adjusters | 10 Kits | 2.68 |
| | Panel Kit | (2) Hinges | | |
| | | (2) #10-32 Screws to Mount Panel | | |
| NBPSWG2 | Swing-Out Panel | (2) Hinged Adjusters | 10 Kits | 1.80 |
| | Adjuster Kit | (2) Panel Adjusters | | |
| | | (4) #10-32 Screws | | |



Fax: 901.252.1354

Mounting Rails can be mounted on long or short side of enclosure.

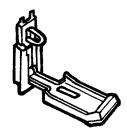
Size mounting flange to side of the enclosure to which the flange will be attached.

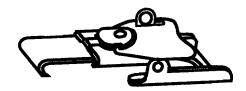
Carlon

Circuit Safe® Enclosure Accessories

Circuit Safe® NEMA Accessories

• For NEMA hinged enclosures.





Latch Kits

| CAT. NO. | PRODUCT | DESCRIPTION | STD. CTN. | STD. WT. (LBS.) |
|----------|---|---|-----------|--------------------|
| NPL1L | Non-Metallic Quick-Release Latch Kit | Quick-Release Latch Kit for Use with Hidden Hinge Enclosure for NH & NI Series | 25 | 2.00 |
| NPL1S | Non-Metallic Quick-Release Latch Kit | Quick-Release Latch Kit for Use with External Hinge Enclosure for NJ & NC Series | 25 | 2.00 |
| SSLL | 304 Stainless Steel Quick-Release Latch Kit | Quick-Release Latch Kit for Use with Hidden Hinge Enclosure for NH & NI Series | 25 | 4.27 |
| SSLS | 304 Stainless Steel Quick-Release Latch Kit | Quick-Release Latch Kit for Use with External Hinge Enclosure for NJ & NC Series | 25 | 3.41 |

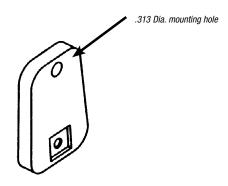


Circuit Safe® Enclosure Accessories

Circuit Safe® JIC Accessories

For Circuit Safe® Enclosures — Type CC, CJ, CS, CV, J

Mounting Feet



| CAT. NO. | STD. CTN. | STD. WT. (LBS.) |
|----------|-------------|-----------------|
| CJB159* | As required | .04 |

*CJB159 non-metallic mounting feet provide 1/4" standoff and may be used to mount enclosures in horizontal or vertical mode. They are shipped with all Circuit Safe® JIC enclosures. No screws are provided when mounting feet are ordered separately.

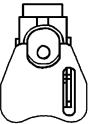
JIC Installation Kit

| CAT. NO. | STD. CTN. | STD. WT. (LBS.) |
|----------|-----------|-----------------|
| CH208* | 1 Kit | .25 |

*Installation kit is included as standard equipment with all JIC enclosures. Information listed here for purposes of additional purchase only. Kit includes four mounting feet, eight hinge caps and eight screws.

JIC Latch Kit





| CAT. NO. | STD. CTN. | STD. WT. (LBS.) |
|----------|-------------|-----------------|
| CJTL* | As required | .04 |

Stainless steel. Kit includes latch and keeper.

800.816.7809

Fax: 901.252.1354

Tel: 888.862.3289



^{*} Factory installed. Consult Customer Service for price and delivery. Not UL Listed.

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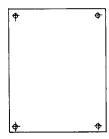
Circuit Safe® Enclosure Accessories

Circuit Safe® JIC Accessories

Steel back panels are white-painted 14-gauge steel.

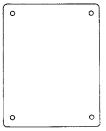
Steel Back Panels*

| CAT. NO. | THICKNESS | SIZE (IN.) | STD. CTN. | STD. Wt. (LBS.) |
|----------|-----------|---------------|-----------|--------------------|
| JP64 | 14 gauge | 4.88 x 2.88 | 1 | .6 |
| JP66 | 14 gauge | 4.88 x 4.88 | 1 | 1.0 |
| JP86 | 14 gauge | 6.75 x 4.88 | 1 | 1.0 |
| JP88 | 14 gauge | 6.75 x 6.88 | 1 | 1.2 |
| JP108 | 14 gauge | 8.75 x 6.88 | 1 | 1.5 |
| JP1010 | 14 gauge | 8.75 x 8.88 | 1 | 2.3 |
| JP1210 | 14 gauge | 10.75 x 8.88 | 1 | 2.7 |
| JP1212 | 14 gauge | 10.75 x 10.88 | 1 | 3.5 |
| JP1412 | 14 gauge | 12.75 x 10.88 | 1 | 3.8 |
| JP1614 | 14 gauge | 14.75 x 12.88 | 1 | 4.7 |



PVC Back Panels*

| CAT. NO. | SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) |
|----------|---------------|-----------|--------------------|
| JP64P | 4 % x 2 % | 1 | .3 |
| JP66P | 4 % x 4 % | 1 | .3 |
| JP86P | 6 ¾ x 4 ¾ | 1 | .4 |
| JP88P | 6 ¾ x 6 ¾ | 1 | .5 |
| JP108P | 8 ¾ x 6 ¾ | 1 | .7 |
| JP1010P | 8 ¾ x 8 ¾ | 1 | .9 |
| JP1210P | 10 ¾ x 8 ¾ | 1 | 1.2 |
| JP1212P | 10 ¾ x 10 % | 1 | 1.5 |
| JP1412P | 12 ¾ x 10 ¾ | 1 | 1.7 |
| JP1614P | 14 ¾ x 12 ¾ | 1 | 2.3 |



Medium NEMA Back Panels*

| CAT. NO. | SIZE (IN.) | STD. CTN. | STD. WT. (LBS.) |
|------------------|---------------|-----------|--------------------|
| NP2016 / NP2016P | 17 x 13 | 1 | 7.0/6.125 |
| NP2420 / NP2420P | 21 x 17 | 1 | 10.4/4.71 |
| NP3024 / NP3024P | 27 x 21 | 1 | 18.0/9.781 |

*Circuit Safe NEMA enclosures are not shipped with back panels, which must be ordered separately.

All accessories can be factory installed. Consult Customer Service for price and delivery.







Tel: 901.252.8000 800.816.7809 Fax: 901.252.1354 Technical Services
Tel: 888.862.3289





Circuit Safe® Enclosure Accessories

Circuit Safe® NEMA and JIC Accessories

For 3R Rating and condensation buildup.

Draining Device*

| CAT. NO. | STD. CTN. |
|----------|-----------|
| HPVEA9 | 30 |





NEMA 1 Rated only.

Air Vents*

| CAT. NO. | STYLE | STD. CTN. |
|----------|---------------------------------------|-----------|
| HPVM25 | For Fitting Outside of All Enclosures | 30 |
| HPVM35 | For Fitting Inside of All Enclosures | 30 |

^{*}Factory installation available.

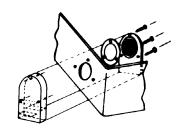


Enables any size enclosure to breathe, yet remain watertight.

Enclosure Ventilator*

| CAT. NO. | STD. CTN. |
|----------|-----------|
| HVM27 | 15 |

*Factory installation available.



800.816.7809 Fax: 901.252.1354

Carlon®

Circuit Safe® Enclosure Accessories

Window Kits

Carlon® hinged window kits are used to create a NEMA 4X environment on electronic control panels. Polycarbonate construction and double gaskets ensure environmental integrity.

Features:

- · High-impact strength
- High dielectric strength
- · Suitable for indoor and outdoor use
- · Fully gasketed

Standards:

 UL Listed and meets NEMA Type 4X with the exception of NI1614W; all sizes are NEMA Type 1 and 12 rated

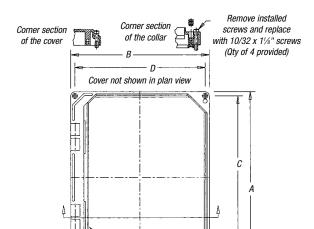
Applications:

- Instrument case
- Junction and terminal boxes
- Control and switching enclosures
- Meter and transformer cabinets
- Small device enclosures
- Surface-mounted instruments

| CAT. NO.* | SIZE (IN.) | STD. CTN. | STD. Wt. (LBS.) |
|-----------|------------|-----------|--------------------|
| NI64W | 6 x 4 | 1 | .8 |
| NI66W | 6 x 6 | 1 | .9 |
| NI86W | 8 x 6 | 1 | 1.17 |
| NI88W | 8 x 8 | 1 | 1.4 |
| NI108W | 10 x 8 | 1 | 1.5 |
| NI1010W | 10 x 10 | 1 | 1.82 |
| NI1210W | 12 x 10 | 1 | 2.12 |
| NI1212W | 12 x 12 | 1 | 2.65 |
| NI1412W | 14 x 12 | 1 | 2.67 |
| NI1614W | 16 x 14 | 1 | 3.10 |

All window kits can be factory installed to Carlon® enclosures. Consult factory for price and delivery.

* Non-stock factory order only — consult Customer Service. NI1614W is not NEMA Type 4X Rated



1.97" TYP

| | | DIMENSIONS (IN.) | | | | |
|---------|---------|------------------|---------|---------|---------|---------|
| SIZE | A | В | С | D | E | F |
| NI64W | 6.42 | 4.41 | 5.92 | 3.94 | 2.72 | 3.80 |
| | (163.1) | (112.0) | (150.4) | (100.0) | (69.1) | (96.5) |
| NI66W | 6.42 | 6.42 | 5.94 | 5.94 | 4.72 | 5.80 |
| | (163.1) | (163.1) | (150.9) | (150.9) | (119.9) | (147.3) |
| NI86W | 8.44 | 6.42 | 7.92 | 5.94 | 4.72 | 5.80 |
| | (214.4) | (163.1) | (201.2) | (150.9) | (119.9) | (147.3) |
| W88IN | 8.44 | 8.43 | 7.95 | 7.95 | 6.72 | 7.80 |
| | (214.4) | (214.1) | (201.9) | (201.9) | (170.7) | (198.1) |
| NI108W | 10.46 | 8.45 | 9.95 | 7.96 | 6.72 | 7.80 |
| | (265.7) | (214.6) | (253.5) | (202.2) | (170.7) | (198.1) |
| NI1010W | 10.45 | 10.45 | 9.97 | 9.97 | 8.72 | 9.80 |
| | (265.4) | (265.4) | (253.2) | (253.2) | (221.5) | (248.9) |
| NI1210W | 12.46 | 10.45 | 11.99 | 9.97 | 8.72 | 9.80 |
| | (316.5) | (265.4) | (304.5) | (253.2) | (221.5) | (248.9) |
| NI1212W | 12.50 | 12.50 | 12.00 | 12.00 | 10.72 | 11.80 |
| | (317.5) | (317.5) | (304.8) | (304.8) | (272.3) | (299.7) |
| NI1412W | 14.50 | 12.50 | 14.01 | 12.00 | 10.72 | 11.80 |
| | (368.3) | (317.5) | (355.9) | (304.8) | (272.3) | (299.7) |
| NI1614W | 16.52 | 14.48 | 16.03 | 14.02 | 12.72 | 13.80 |
| | (419.6) | (367.8) | (407.2) | (356.1) | (323.1) | (350.5) |

Note: Chart dimensions read in (mm)



United States Tel: 901.252.8000

800.816.7809 Fax: 901.252.1354





Himeline® Enclosures

Himeline® Enclosures HS, HP, HLA/HLS Series

Carlon® Himeline® enclosures are the ideal alternative to expensive stainless steel enclosures. They have excellent corrosion-resistant properties and are impervious to sunlight, dirt and moisture. Available in four series (HS, HP and HLA/HLS), with sizes ranging from 11 x 7 x 7 through 50 x 40 x 17, these enclosures offer choices that include double doors, clear or opaque covers, hinged and screw versions, single- or three-point closure mechanisms, 4X windows, DIN rail mounting and an adjustable depth door-in-door option that enables you to customize your enclosures by separating power from communications.



Features:

- · High-impact strength
- · High dielectric strength
- · Suitable for indoor and outdoor use
- · Fully gasketed
- Lightweight

Applications:

- Instrument case
- Junction and terminal boxes
- · Control and switching enclosures
- · Meter and transformer cabinets
- Small device enclosures

Standards:

- Meets NEMA and IP standards as indicated in appropriate section
- UL[®] Listed as indicated

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A-299

Himeline[®] Enclosures

HS Series Screw-On Fastened and Hinged Cover Enclosures

- Meets NEMA 1, 3, 3S, 4, 4X, 12, 13
- Meets IP 65

Himeline® HS Series enclosures are designed for use as junction boxes, terminal wiring boxes, instrument and control housings and small device enclosure applications. Molded under high pressure, Himeline® HS Series enclosures provide high-impact strength, chemical resistance, high dielectric strength and excellent weathering capabilities.



Features:

- Standard slotted locking screw
- High-impact strength
- Chemical resistance
- · High dielectric strength
- Excellent weathering capabilities
- Sealing gasket on all models
- Sunlight resistant

Applications:

- Junction boxes
- Terminal wiring boxes
- · Instrument and control housings
- Small device enclosure applications
- Indoor or outdoor use

Material:

- Opaque/Clear Lid Polycarbonate
- Base Fiberglass Reinforced Polyester

Standards:

- Meets NEMA Type 1, 3, 3S, 4, 4X, 12, 13 ratings
- UL Listed per UL 50, enclosures for electrical equipment
- Meets IP 65
- UL[®] Listed (E108856)

Himeline® Enclosures

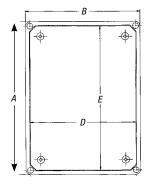
HS Series Screw-On Fastened and Hinged Cover Enclosures

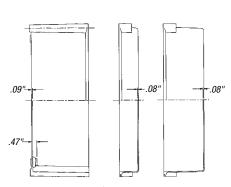
Features:

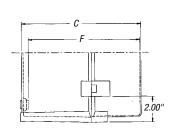
- Molded under high pressure
- · High-impact strength
- · Chemical resistance
- · High dielectric strength
- Excellent weathering capabilities
- · Clear cover available











| OPAQUE | CLEAR | OPAQUE | CLEAR | | DI | MENS | ONS (II | V.) | | OPAQUE WT. | CLEAR WT. | | | | | | |
|-------------------|-------------------|-------------------|-------------------|-------|--------|------|---------|--------|------|------------------|------------------|--------------|-------------------|---------------------------|---------------|---------------|--------------|
| SCREW-ON | SCREW-ON | HINGED | HINGED | E | KTERNA | \L | II. | NTERNA | \L | (LBS.) EACH | (LBS.) EACH | _ | BACK | | THICK- | STD. | |
| COVER Cat. No. | COVER CAT. NO. | COVER CAT. NO. | COVER CAT. NO. | Α | В | С | | E | F | SCREW/ HINGED | SCREW/ HINGED | STD. CTN. | PANEL CAT. NO. | DIMENSIONS (IN.) H X W | NESS (IN.) | WT. (LBS.) | STD. CTN. |
| HS7A7 | HS7A7C | HH7A7 | HH7A7C | 10.63 | 7.09 | 7.09 | 6.26 | 9.80 | 6.54 | 10.7/7 | 10.9/6.2 | 4 | HS7ABP | 5.51 x 9.05 | .08 | 1.1 | 1 |
| HS11A7 | HS11A7C | HH11A7 | HH11A7C | 10.63 | 10.63 | 7.09 | 9.80 | 9.80 | 6.54 | 15.2/8.5 | 14/8 | 4 | HS11ABP | 9.05 x 9.05 | .08 | 1.7 | 1 |
| HS11B7 | HS11B7C | HH11B7 | HH11B7C | 14.17 | 10.63 | 7.09 | 9.80 | 13.35 | 6.54 | 17/4 | 18/4 | 4 | HS11BBP | 9.05 x 12.60 | .08 | 2.4 | 1 |
| HS11C7 | HS11C7C | HH11C7 | HH11C7C | 21.26 | 10.63 | 7.09 | 9.80 | 20.43 | 6.54 | 13/13 | 12.5/13 | 2 | HS11CBP | 9.05 x 19.68 | .08 | 3.9 | 1 |
| HS15C7 | HS15C7C | HH15C7 | HH15C7C | 21.26 | 14.17 | 7.09 | 13.35 | 20.43 | 6.54 | 17.7/11 | 18/11 | 2 | HS15CBP | 12.60 x 19.68 | .08 | 6.6 | 1 |
| HS21C7 | HS21C7C | HH21C7 | HH21C7C | 21.26 | 21.26 | 7.09 | 20.43 | 20.43 | 6.54 | 12.5/13 | 12/13 | 1 | HS21CBP | 19.68 x 19.68 | .08 | 8.8 | 1 |
| HS11A9 | HS11A9C | HH11A9 | HH11A9C | 10.63 | 10.63 | 9.06 | 9.80 | 9.80 | 8.47 | 15/4 | 16.6/5 | 4 | HS11ABP | 9.05 x 9.05 | .08 | 1.7 | 1 |
| HS11B9 | HS11B9C | HH11B9 | HH11B9C | 14.17 | 10.63 | 9.06 | 9.80 | 13.35 | 8.47 | 20/6 | 19/6 | 4 | HS11BBP | 9.05 x 12.60 | .08 | 2.5 | 1 |
| HS11C9 | HS11C9C | HH11C9 | HH11C9C | 21.26 | 10.63 | 9.06 | 9.80 | 20.43 | 8.47 | 14/9 | 14/9 | 2 | HS11CBP | 9.05 x 19.68 | .08 | 3.9 | 1 |
| HS15C9 | HS15C9C | HH15C9 | HH15C9C | 21.26 | 14.17 | 9.06 | 13.35 | 20.43 | 8.47 | 18.5/11 | 19/11 | 2 | HS15CBP | 12.60 x 19.68 | .08 | 6.6 | 1 |
| HS21C9 | HS21C9C | HH21C9 | HH21C9C | 21.26 | 21.26 | 9.06 | 20.43 | 20.43 | 8.47 | 13/14 | 14/14 | 1 | HS21CBP | 19.68 x 19.68 | .08 | 8.8 | 1 |
| HS15D9 | HS15D9C | HH15D9 | HH15D9C | 28.35 | 14.17 | 9.06 | 13.35 | 27.52 | 8.47 | 13/13 | 13/13 | 1 | HS15DBP | 12.60 x 26.77 | .10 | 9.5 | 1 |
| HS21D9 | HS21D9C | HH21D9 | HH21D9C | 28.35 | 21.26 | 9.06 | 20.43 | 27.52 | 8.47 | 18/18 | 17/18 | 1 | HS21DBP | 19.68 x 26.77 | .10 | 15.5 | 1 |

Back panels and mounting feet must be ordered separately.

Consult Customer Service for availability and delivery.



800.816.7809 Fax: 901.252.1354 Tel: 888.862.3289



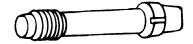
Himeline® Enclosures

HS Series Accessories

For Himeline® HS Enclosures.

Thumb Screws

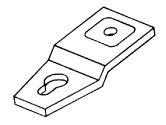
| CAT. NO. | STD. CTN. | STD. WT. (LBS.) |
|----------|-----------|--------------------|
| HSTS4 | 25 | 0.1 |
| HSTS6 | 25 | 0.15 |



For Himeline® HS Enclosures.

Mounting Feet

| CAT. NO. | DESCRIPTION | STD. CTN. | STD. Wt. (LBS.) |
|----------|------------------------|-----------|--------------------|
| HSMFZ | Zinc Dichromated Steel | 25 | 0.2 |
| HSMFSS | 304 Stainless Steel | 25 | 0.2 |

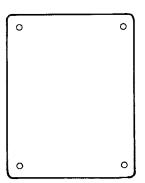


For Himeline® HS Enclosures, metal back panels are white-painted 14-gauge steel.

Back Panels*

| | | | STD. |
|----------|---------------|-----------|------------|
| CAT. NO. | SIZE (IN.) | STD. CTN. | WT. (LBS.) |
| HS7ABP | 5.51 x 9.05 | 1 | 1.2 |
| HS11ABP | 9.05 x 9.05 | 1 | 2.0 |
| HS11BBP | 9.05 x 12.06 | 1 | 2.7 |
| HS11CBP | 9.05 x 19.68 | 1 | 4.3 |
| HS15CBP | 12.60 x 19.68 | 1 | 7.1 |
| HS21CBP | 19.68 x 19.68 | 1 | 9.6 |
| HS15DBP | 12.60 x 26.77 | 1 | 10.2 |
| HS21DBP | 19.68 x 26.77 | 1 | 16.6 |

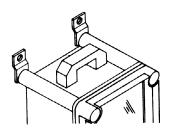
*Himeline HS enclosures are not shipped with back panels. Order separately. PVC back panels available upon request. Consult Customer Service.



Converts enclosures to portable units for meters and portable power.

Non-Metallic Carrying Handle

| CAT. NO. | STD. CTN. | STD. WT. (LBS.) |
|----------|-----------|--------------------|
| HSCH | 10 | 0.2 |









Himeline® Enclosures

HS Series Accessories

For 3R Rating and condensation buildup.

Draining Device*

| CAT. NO. | STD. CTN. |
|----------|-----------|
| HPVEA9 | 30 |

^{*}Factory installation available.



NEMA 1 Rated only.

Air Vents*

| CAT. NO. | STYLE | STD. CTN. |
|----------|---------------------------------------|-----------|
| HPVM25 | For Fitting Outside of All Enclosures | 25 |
| HPVM35 | For Fitting Inside of All Enclosures | 30 |

^{*}Factory installation available.

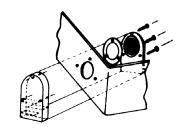


Enables any size enclosure to breathe, yet remain watertight.

Enclosure Ventilator*

| CAT. NO. | STD. CTN. |
|----------|-----------|
| HVM27 | 15 |

^{*}Factory installation available.



Himeline® Enclosures

HP Series Enclosures with Hinged Quick-Release Cover

- Meets NEMA 1, 3, 3S, 4, 4X, 12, 13
- Meets IP 66

Himeline® HP Series enclosures for medium-sized devices and equipment provide superior performance as junction and terminal wiring boxes and instrument and control housing applications.

For indoor/outdoor industrial, MRO and OEM applications. HP Series enclosures are resistant to corrosion, sunlight, chemicals, dirt and moisture. Temperature range from -58° F to 320° F.



Features:

- Projections for affixing cover mounted panel
- Door-locking mechanism convertible to key lock
- M8x18 studs for back panel mounting (included)
- Hidden hinges open 185° for easy access
- Multi-positional DIN rail fixing components
- Removable stainless steel hinge pins
- Single-piece construction
- · Opaque or tempered glass window option
- Steel, non-metallic and slotted back panels available
- External and internal venting available
- Hinged, variable-height inner panel option
- Quick-locking ¼-turn entry
- · Underside grid pattern on inner door panel
- Self-positioning panel depth adjusters
- · Pole mounting kit
- Pedestal mounting capability
- Sunlight resistant

Applications:

- Junction boxes
- Terminal wiring boxes
- Instrument and control housing
- Indoor or outdoor use

Standards:

- NEMA Type 1, 3, 3S, 4, 4X, 12, 13
- UL® Listed per UL 50, enclosures for electrical equipment
- Meets IP 66

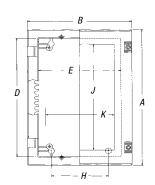
Material:

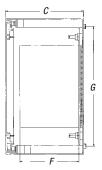
Lids/Bases — Fiberglass-reinforced polyester

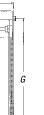


Himeline® Enclosures

HP Series Enclosures with Hinged Quick-Release Cover







Depth with back panel installed

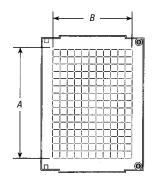
| ENCLOSURE | | | | | | | | | | | | | | | |
|----------------------|-------------|-------------------------|-------------|----------------------|-------|--------|-------|-------|--------|-------|-------|-------|-------|-------|------|
| WITH OPAQUE COVER | STD. WT. | ENCLOSURE WITH CLEAR | STD. WT. | WINDOW DIMENSIONS | E | XTERNA | L | | NTERNA | L | MOU | ITING | WIN | DOW | STD. |
| CAT. NO. | (LBS.) | WINDOW* | (LBS.) | (H X W) (IN.) | A | В | С | D | E | F | G | Н | J | K | CTN. |
| HP1612B | 11.04 | HC1612B | 12.5 | 11 x 7.87 | 16.93 | 12.99 | 7.87 | 14.96 | 10.24 | 6.61 | 14.76 | 5.91 | 11.02 | 7.87 | 1 |
| HP2016B | 16.80 | HC2016B | 17.2 | 14.96 x 11.81 | 20.87 | 16.93 | 7.87 | 18.90 | 14.17 | 6.61 | 18.70 | 9.84 | 14.96 | 11.81 | 1 |
| HP2416C | 21.13 | HC2416C | 24.12 | 18.89 x 11.81 | 25.47 | 17.17 | 9.84 | 22.83 | 14.17 | 8.35 | 22.64 | 9.84 | 18.90 | 11.81 | 1 |
| HP3020D | 32.28 | HC3020** | 36.02 | 22.83 x 15.74 | 29.41 | 21.10 | 11.81 | 26.77 | 18.11 | 10.28 | 26.57 | 13.78 | 22.83 | 15.75 | 1 |
| HP3325D | 39.00 | HC3325D** | 43.12 | 26.77 x 19.68 | 33.35 | 25.04 | 11.81 | 30.71 | 22.05 | 10.28 | 30.51 | 17.72 | 26.77 | 19.69 | 1 |

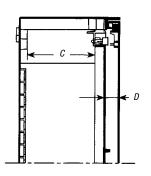
^{*} HC Enclosures are IP 65 Rated. Clear window is glass.

Consult Customer Service for availability and delivery.

Hinged Internal Door

- · Internal fiberglass-reinforced polyester door assembly
- · Grid pattern on the inside for quicker positioning of equipment
- Quick-locking 1/4-turn entry





| | | A | В | | | C | D | D | | STD. |
|----------|-------|-------|-------|-------|------|-------|------|------|-----------|------|
| CAT. NO. | IN. | (MM) | IN. | (MM) | IN. | (MM) | IN. | (MM) | STD. CTN. | |
| PID1612 | 12.40 | (315) | 18.07 | (205) | 5.98 | (152) | 1.02 | (26) | 1 | 2.05 |
| PID2016B | 16.34 | (415) | 12.00 | (305) | 5.98 | (152) | 1.02 | (26) | 1 | 3.15 |
| PID2416C | 20.28 | (515) | 12.00 | (305) | 7.64 | (194) | 1.26 | (32) | 1 | 4.50 |
| PID3020D | 24.21 | (615) | 15.94 | (405) | 9.61 | (244) | 1.26 | (32) | 1 | 6.50 |
| PID3325D | 28.15 | (715) | 19.88 | (505) | 9.61 | (244) | 1.26 | (32) | 1 | 8.45 |





 $^{^{\}star\star}$ This series of enclosures comes standard with body, lid and mounting rail kit.

Himeline® Enclosures

A complete range of plates — directly fix to the enclosure supports or to the adjustable depth supports.

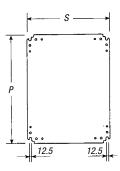
HP Series Back Panels

Steel back panels are white-painted 14-gauge steel.

Steel Back Panels

| | TO FIT - | THICKNESS | | WEI | GHT | . Р | S | |
|----------|------------|-----------|------|-------|-------|-------|-------|--|
| CAT. NO. | ENCLOSURES | IN. | (MM) | LBS. | (KG) | (IN.) | (IN.) | |
| PMM1612 | HP1612B | .079 | (2) | 3.10 | (1.6) | 14.37 | 9.84 | |
| PMM2016 | HP2016B | .079 | (2) | 6.15 | (2.5) | 18.30 | 13.78 | |
| PMM2416 | HP2416C | .079 | (2) | 8.0 | (3.1) | 22.24 | 13.78 | |
| PMM3020 | HP3020D | .079 | (2) | 12.04 | (4.6) | 26.18 | 17.72 | |
| PMM3325 | HP3325D | .118 | (3) | 20.0 | (9.9) | 30.11 | 21.65 | |

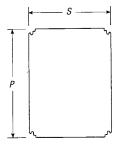
Refer to the Enclosure Accessories section for back panel accessories.



PVC back panels are made from ¼" PVC and meet UL94V-0.

PVC Insulating Back Panels

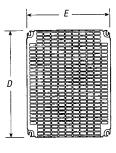
| | TO FIT | WEI | GHT | F |) | S | | |
|----------|------------|------|-------|-------|-------|-------|-------|--|
| CAT. NO. | ENCLOSURES | LBS. | (KG) | IN. | (MM) | IN. | (MM) | |
| PMB1612 | HP1612B | 1.10 | (0.5) | 14.37 | (365) | 9.84 | (250) | |
| PMB2016 | HP2016B | 2.65 | (1.2) | 18.30 | (465) | 13.78 | (350) | |
| PMB2416 | HP2416C | 3.09 | (1.4) | 22.24 | (565) | 13.78 | (350) | |
| PMB3020 | HP3020D | 4.63 | (2.1) | 26.18 | (665) | 17.72 | (450) | |
| PMB3325 | HP3325D | 6.62 | (3.0) | 30.11 | (765) | 21.65 | (550) | |



Zinc, dichromated, coated-steel plates perforated for addition of electrical circuitry.

PVC Insulating Back Panels

| | TO FIT | WEIGHT | | | D | | E | |
|----------|------------|--------|-------|-------|-------|-------|-------|--|
| CAT. NO. | ENCLOSURES | LBS. | (KG) | IN. | (MM) | IN. | (MM) | |
| PMR1612 | HP1612B | 1.54 | (0.7) | 13.74 | (349) | 9.8 | (251) | |
| PMR2016 | HP2016B | 2.87 | (1.3) | 17.72 | (450) | 13.82 | (351) | |
| PMR2416 | HP2416C | 3.53 | (1.6) | 21.85 | (555) | 13.82 | (351) | |
| PMR3020 | HP3020D | 5.07 | (2.3) | 25.39 | (645) | 17.76 | (451) | |
| PMR3325 | HP3325D | 7.06 | (3.2) | 29.53 | (750) | 21.69 | (551) | |





United States
Tel: 901.252.8000
800.816.7809

Fax: 901.252.1354

Technical Services
Tel: 888.862.3289



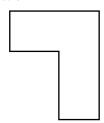


Himeline® **Enclosures**

HP Series Accessories

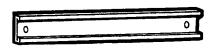
Blanking Grommet

To close off openings on enclosure backs.



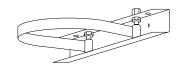
| CAT. NO. | FITS Enclosure Sizes | DESCRIPTION | STD. CTN. | STD. WT. (LBS.) |
|---------------|------------------------------|------------------|--------------|--------------------|
| HPBNGB | 16 x 12 and 20 x 16 | Blanking Grommet | 10 | 1.00 |
| HPBNGC | 24 x 16, 30 x 20 and 33 x 25 | Blanking Grommet | 20 | 1.00 |

35mm Symmetrical DIN Rail



| CAT. NO. | TO FIT Enclosures | WIDTH (IN.) | STD. CTN. |
|----------|----------------------|----------------|--------------|
| HPC0300 | HP1612B | 11.02 | 25 |
| HPC0400 | HP2016B, HP2416C | 14.96 | 2 |
| HPC0500 | HP3020D | 18.90 | 50 |

Pole Mounting Set



| CAT. NO. | TO FIT Enclosures | STD. CTN. |
|----------|----------------------|--------------|
| HPPF300 | HP1612B | 1 |
| HPPF400 | HP2016B, HP2416C | 1 |
| HPPF500 | HP3020D | 1 |
| HPPF600 | HP3325D | 1 |

Wall Mounting Set



| CAT. NO. | STD. CTN. | STD. WT. (LBS.) |
|--|--------------|--------------------|
| HPWMF | 10 | .1 |
| Includes brass inserts and installation tools. | | |

Rail Mounting Insert



| CAT. NO. | FEATURES | STD. CTN. |
|----------|---------------------|--------------|
| HPRFK | Fits All Enclosures | 10 |



Carlon

Himeline® **Enclosures**

HP Series Accessories

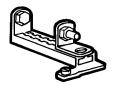
Fixing Accessories for Slotted Plates



| | FIXING NUT | Г | FIXIN | G BOLT WITH | WASHER |
|----------|-------------------|--------------|----------|-----------------|--------------|
| CAT. NO. | TYPE OF THREAD | STD. CTN. | CAT. NO. | LENGTH (IN.) | STD. CTN. |
| HPFA4 | M4 | 8 | HPFB104 | .39 | 1000 |
| HPFA4 | M4 | 8 | HPFB164 | .63 | 1000 |
| HPFA5 | M5 | 8 | HPFB125 | .47 | 1000 |
| HPFA5 | M5 | 8 | HPFB185 | .71 | 1000 |
| HPFA6 | M6 | 8 | HPFB126 | .47 | 1000 |
| HPFA6 | M6 | 8 | HPFB186 | .71 | 1000 |

Back Panel Depth Adjustable Supports

Supports designed to fit 7.87" (200mm), 9.84" (250mm), 11.81" (300mm) and 13.78" (350mm) deep enclosures. Self-positioning slots enable adjustment every .49" (12.5mm). Made of zinc dichromated coated steel.



| CAT. NO. | TO FIT ENCLOSURES | A IN./MM | B IN./MM | STD. CTN. |
|----------|----------------------|-------------|-------------|--------------|
| HPLM200 | HP1612B & HP2016B | 5.98/152 | 3.90/99 | 8 |
| HPLM250 | HP2416C | 8.07/205 | 4.13/105 | 15 |
| HPLM300 | HP3020D & HP3325D | 10.04/255 | 8.07/205 | 10 |

Pedestal Mount



| CAT. NO. | TO FIT Enclosures | STD. CTN. |
|----------|----------------------|--------------|
| HPSFS1 | HP2016B | 1 |
| | HP2416C | |

For 3R Rating and condensation buildup. **Draining Device***



| CAT. NO. | STD. CTN. |
|----------|--------------|
| HPVEA9 | 30 |

*Factory installation available.

Carlon

Himeline® Enclosures

HP Series Accessories

NEMA 1 Rated only.

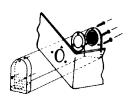
Air Vents*



| CAT. NO. | STYLE | STD. CTN. |
|---------------------|---------------------------------------|--------------|
| HPVM25 | For Fitting Outside of All Enclosures | 30 |
| HPVM35 | For Fitting Inside of All Enclosures | 30 |
| *Footon, installati | in a constitution | |

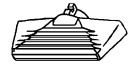
Enables any size enclosure to breathe, yet remain watertight.

Enclosure Ventilator*



| CAT. NO. | STD. CTN. |
|---------------------------------|--------------|
| HVM27 | 15 |
| *Factory installation available | |

Replacement Standard Handle



| CAT. NO. | STD. CTN. | STD. Wt. (LBS.) |
|----------|--------------|--------------------|
| HPRSH | 1 | .05 |

For Himeline HP Enclosures HP3020D and HP3325D.

Coupling Frame

| CAT. NO. | STD. CTN. |
|----------|--------------|
| HPBU | 1 |

For Himeline® HP Enclosures.

Locks

Replacement Door Lock

| CAT. NO. | STD. CTN. |
|---------------------|--------------|
| HPRLA | 15 |
| F 1 11 11 1 11BBB11 | |

For replacement handle, order HPRSH.



Padlocking Service

| CAT. NO. | STD. CTN. |
|----------|--------------|
| HPPLH | 20 |
| | |



Cylinder Key Lock (Keyed Alike)

| CAT. NO. | STD. CTN. |
|-----------------------------------|--------------|
| HPTPLM | 15 |
| For replacement key, order HPRKO. | |





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Tel: 888.862.3289



Carlon®

Himeline® Enclosures

HLA/HLS Series Enclosures

Carlon® Himeline® HLA/HLS Series Enclosures are large fiber-reinforced polyester cabinets ranging in sizes 20 x 20 x 17 to 50 x 40 x 17 and 20 x 20 x 12 to 50 x 40 x 12, respectively. They have operating temperatures of -50° to 150° C and can accommodate large devices and equipment for a wide range of applications, including junction and terminal wiring boxes, instruments and control housings. They are ideal for indoor/outdoor industrial, MRO and OEM applications, and offer superior strength and high resistance to corrosion, moisture, dust, oil and UV light, enabling them to withstand the harshest of environments.

The HLA/HLS Series Enclosures are fitted with a watertight gasket and are available in one- and two-door configurations. These cabinets have a closed top and bottom and the two-door version includes a central upright to maintain rigidity.

To maintain the watertight seal, the locking mechanism is positioned outside the gasketed area. A wide variety of accessories are available such as steel and non-metallic back panels, self-positioning panel depth adjusters and ventilator kits.

Carlon® Enclosures...the ideal alternative to expensive stainless steel enclosures.



Features:

- Fiber-reinforced polyester
- Temperature range of -58° to 302° F (-50° to 150° C)
- Indoor/outdoor applications
- Superior strength
- · High resistance to harsh environments
- · Watertight gasket seal
- · One- and two-door configurations
- Locking mechanism and hinge are outside gasketed area
- · Floor or wall mounted

Applications:

- Contain large devices and equipment
- Junction and terminal wiring boxes
- Instrument and control housings

Standards:

- IP 65 Rating (single-door versions only)
- 4/4X Rated (single-door versions only)
- UL[®] Listed



Himeline® Enclosures

HLA/HLS Series Single- and Double-Hinged Cover Enclosures with Latches*



One-Door NEMA Types 1, 2, 3, 3R, 4, 4X, 5, 12, 13

HLA One Door (17" Deep)

| | DIMENSIONS (IN.) | | | | STD. WT. |
|----------|------------------|----|----|-----------|----------|
| CAT. NO. | Н | W | D | STD. CTN. | (LBS.) |
| HLA2020 | 20 | 20 | 17 | 1 | 38.3 |
| HLA2030 | 20 | 30 | 17 | 1 | 53.9 |
| HLA3020 | 30 | 20 | 17 | 1 | 53.9 |
| HLA3030 | 30 | 30 | 17 | 1 | 60.7 |
| HLA4020 | 40 | 20 | 17 | 1 | 63.1 |
| HLA4030 | 40 | 30 | 17 | 1 | 81.0 |
| HLA5020 | 50 | 20 | 17 | 1 | 78.7 |
| HLA5030 | 50 | 30 | 17 | 1 | 96.7 |

^{*} Consult Customer Service for availability and delivery.

HLS One Door (12" Deep)

| | DIN | DIMENSIONS (IN.) | | | STD. WT. |
|----------|-----|------------------|----|-----------|----------|
| CAT. NO. | Н | w | D | STD. CTN. | (LBS.) |
| HLS2020 | 20 | 20 | 12 | 1 | 29.8 |
| HLS2030 | 20 | 30 | 12 | 1 | 40.59 |
| HLS3020 | 30 | 20 | 12 | 1 | 49.5 |
| HLS3030 | 30 | 30 | 12 | 1 | 55.1 |
| HLS4020 | 40 | 20 | 12 | 1 | 56.81 |
| HLS4030 | 40 | 30 | 12 | 1 | 61.7 |
| HLS5020 | 50 | 20 | 12 | 1 | 67.56 |
| HLS5030 | 50 | 30 | 12 | 1 | 76.83 |
| +0 "0" | | | | | |

^{*} Consult Customer Service for availability and delivery.



Two-Door NEMA Types 1, 2, 12, 13

HLA Two Door (17" Deep)

| | DII | MENSIONS (I | | STD. WT. | |
|----------|-----|-------------|----|-----------|--------|
| CAT. NO. | Н | w | D | STD. CTN. | (LBS.) |
| HLA30402 | 30 | 40 | 17 | 1 | 81.0 |
| HLA40402 | 40 | 40 | 17 | 1 | 114.7 |
| HLA40502 | 40 | 50 | 17 | 1 | 135.0 |
| HLA50402 | 50 | 40 | 17 | 1 | 135.0 |

HLS Two Door (12" Deep)

| | DII | MENSIONS (| | STD. WT. | |
|----------|-----|------------|----|-----------|--------|
| CAT. NO. | Н | w | D | STD. CTN. | (LBS.) |
| HLS30402 | 30 | 40 | 12 | 1 | 62.57 |
| HLS40402 | 40 | 40 | 12 | 1 | 87.59 |
| HLS40502 | 40 | 50 | 12 | 1 | 104.28 |
| HLS50402 | 50 | 40 | 12 | 1 | 104.28 |





Himeline® **Enclosures**

HLA/HLS Series Accessories

Non-Metallic Thermosetting Plastic (Bakelite)

One Door

| | DIMENS | IONS (IN.) | | STD. WT. |
|-----------|--------|------------|-----------|----------|
| CAT. NO. | Н | W | STD. CTN. | (LBS.) |
| LP2020BP | 15.4 | 14.8 | 1 | 2.1 |
| LP3020BP* | 25.2 | 14.8 | 1 | 3.0 |
| LP3030BP | 25.2 | 24.6 | 1 | 6.3 |
| LP4020BP | 35.0 | 14.8 | 1 | 5.2 |
| LP4030BP | 35.0 | 24.6 | 1 | 8.8 |
| LP5020BP | 44.3 | 14.8 | 1 | 6.7 |
| LP5030BP | 44.3 | 24.6 | 1 | 11.2 |

^{*} Use Back Panel LP3020BP for Enclosures HLA2030, HLA3020, HLS2030 and HLS3020

Two Door

| | DIMENS | ions (in.) | | STD. WT. |
|-----------|--------|------------|-----------|----------|
| CAT. NO. | Н | W | STD. CTN. | (LBS.) |
| P30402BP | 25.2 | 34.4 | 1 | 8.8 |
| LP40402BP | 35.0 | 34.4 | 1 | 12.3 |
| LP40502BP | 35.0 | 44.3 | 1 | 16.1 |
| LP50402BP | 44.3 | 34.4 | 1 | 16.1 |





Metal — Galvanized Steel

One Door

| | DIMENS | IONS (IN.) | | STD. WT. |
|-----------|--------|------------|-----------|----------|
| CAT. NO. | Н | W | STD. CTN. | (LBS.) |
| LA2020BP | 15.4 | 14.8 | 1 | 5.6 |
| LA3020BP* | 25.2 | 14.8 | 1 | 8.6 |
| LA3030BP | 25.2 | 24.6 | 1 | 17.6 |
| LA4020BP | 35.0 | 14.8 | 1 | 14.6 |
| LA4030BP | 35.0 | 24.6 | 1 | 24.3 |
| LA5020BP | 44.3 | 14.8 | 1 | 19.4 |
| LA5030BP | 44.3 | 24.6 | 1 | 31.9 |

^{*} Use Back Panel LA3020BP for Enclosures HLA2030, HLA3020, HLS2030 and HLS3020

Two Door

| | DIMENS | IONS (IN.) | | STD. WT. |
|-----------|--------|------------|-----------|----------|
| CAT. NO. | Н | W | STD. CTN. | (LBS.) |
| LA30402BP | 25.2 | 34.4 | 1 | 24.1 |
| LA40402BP | 35.0 | 34.4 | 1 | 33.8 |
| LA40502BP | 35.0 | 44.3 | 1 | 43.4 |
| LA50402BP | 44.3 | 34.4 | 1 | 43.7 |







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Himeline® Enclosures

Mounting Feet



| CAT. NO. | STD. CTN. | STD. Wt. (LBS.) |
|----------|-------------------|--------------------|
| HLAMFSS | 1 each (set of 4) | .6 |

Panel Adjuster Kit



| CAT. NO. | STD. CTN. | STD. WT. (LBS.) |
|----------|-------------------|--------------------|
| HLABPA4 | 1 each (set of 4) | .31 |

Padlock Device



| CAT. NO. | STD. CTN. | STD. WT. (LBS.) |
|----------|-----------|--------------------|
| HLAPAD | 8 | .61 |

Draining Device*



| CAT. NO. | STD. CTN. |
|----------|--------------|
| HDVEAQ | 30 |

For 3R Rating and condensation buildup.

*Factory installation available.

Replacement Handle with Cylinder Key Lock



| CAT. NO. | STD. CTN. | STD. WT. (LBS.) |
|----------|-----------|--------------------|
| HLATEL | 8 | .41 |

Standard Replacement Bar Lock with Key



| CAT. NO. | STD. CTN. | STD. Wt. (LBS.) |
|----------|-----------|--------------------|
| HLATD | 30 | .21 |

Replacement Handle with Pushbutton

| CAT. NO. | STD. CTN. | STD. Wt. (LBS.) |
|----------|-----------|--------------------|
| HLAHAN | 8 | .40 |

Air Vents*

| CAT. NO. | STYLE | STD. WT. (LBS.) |
|----------|---------------------------------------|--------------------|
| HPVM25 | For Fitting Outside of All Enclosures | 1 |
| HPVM35 | For Fitting Inside of All Enclosures | 1 |

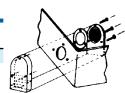
NEMA 1 Rated only. *Factory installation available.



Enclosure Ventilator*

| CAT. NO. | STD. CTN. |
|---|--------------|
| HVM27 | 15 |
| Enables any size enclosure to breathe, yet remain watertight. | |

*Factory installation available.





Tel: 888.862.3289



Himeline® Enclosures

HLP Series Enclosure and Pedestal

Himeline® HLP Enclosures and Pedestals are designed to accommodate all types of electrical equipment for electrical distribution applications. The enclosure may be directly installed on the ground or on top of a pedestal, and the pedestal is approved for direct-burial applications. Both are manufactured using fiber-reinforced polyester to provide highimpact resistance and enable effortless modifications. And, each has an IP43 Self-Ventilated and IP54 Watertight rating and a temperature range of -58° F to 302° F.

Enclosure Features:

- High impact resistance
- · Non-conductive and non-corrosive
- Fits all type of electrical equipment
- IP43 self-ventilated
- IP54 watertight
- One- and two-door configurations
- Install directly on the ground or on a pedestal
- Removable inner hinges for great access
- Doors open 180°

Pedestal Features:

- Can be direct buried
- · Non-conductive and non-corrosive
- Detachable upper front for easy access
- High impact resistance
- Auxiliary outlet on the side
- IP43 self-ventilated
- IP54 watertight
- Floor- or wall-mountable

Material:

· Fiberglass-reinforced polyester















Enclosure



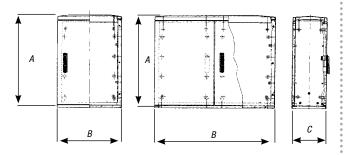
United States Tel: 901.252.8000 800.816.7809 Fax: 901.252.1354

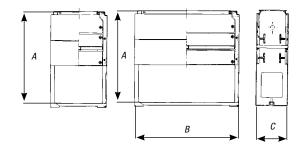
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Carlon

Himeline® Enclosures





Enclosures

| | | | DIN | MENSIONS (| _ | | |
|-----------|---|-----------------|-------------|------------|------------|--------------|--------------------|
| CAT. NO. | | NO. OF LOCKS | A HEIGHT | B WIDTH | C Depth | STD. CTN. | STD. WT. (LBS.) |
| HLP3318 | 1 | 1 | 33.46 | 18.31 | 12.60 | 1 | 40.79 |
| HLP3323 | 1 | 1 | 33.46 | 23.23 | 12.60 | 1 | 48.50 |
| HLP3331 | 1 | 1 | 33.46 | 30.91 | 12.60 | 1 | 55.12 |
| HLP33442 | 2 | 1 | 33.46 | 43.90 | 12.60 | 1 | 77.16 |
| HLP33442L | 2 | 2 | 33.46 | 43.90 | 12.60 | 1 | 77.16 |
| | | | | | | | |

Consult Customer Service for availability and delivery.

Pedestals

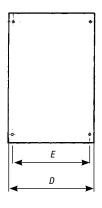
| | DII | MENSIONS (I | STD. | STD. WT. | |
|-------------|-------|-------------|-------|----------|--------|
| CAT. NO. | Н | W | D | CTN. | (LBS.) |
| HLPED3318 | 35.43 | 18.31 | 12.20 | 1 | 33.10 |
| HLPED3323 | 35.43 | 23.23 | 12.20 | 1 | 37.48 |
| HLPED3331 | 35.43 | 30.91 | 12.20 | 1 | 44.10 |
| HLPED33442 | 35.43 | 43.90 | 12.20 | 1 | 55.12 |
| HLPED33442L | 35.43 | 43.90 | 12.20 | 1 | 55.12 |

Consult Customer Service for availability and delivery.

Mounting Plates

| | ENCLOSURE | PEDESTAL | # OF PLATES - | DIMENSI | ONS (IN.) | - THICKNESS | STD. | STD. WT. |
|----------|-----------|-------------|---------------|---------|-----------|-------------|------|----------|
| CAT. NO. | CAT. NO. | CAT. NO. | PER ENCL. | D | E | (IN.) | CTN. | (LBS.) |
| LA1412BP | HLP3318 | HLPED3318 | 1 | 14.02 | 11.97 | .20 | 1 | 4.41 |
| LA1816BP | HLP33442L | HLPED33442L | 2 | 17.64 | 15.59 | .20 | 1 | 11.02 |
| LA1916BP | HLP3323 | HLPED3323 | 1 | 18.94 | 16.89 | .20 | 1 | 6.00 |
| LA2725BP | HLP3331 | HLPED3331 | 1 | 26.61 | 24.57 | .20 | 1 | 8.38 |

Consult Customer Service for availability and delivery.



HLP Series Accessories

Gasket

| CAT. NO. | SIZE (IN.) H x W x D | STD. CTN. | STD. WT. (LBS.) |
|----------|-------------------------|--------------|--------------------|
| HLP3318G | 33 x 18 x 12 | 1 | 2.2 |
| HLP3323G | 33 x 23 x 12 | 1 | 2.2 |
| HLP3331G | 33 x 31 x 12 | 1 | 2.2 |
| HLP3344G | 33 x 44 x 12 | 1 | 2.2 |

Consult Customer Service for availability and delivery.







Slack and Splice Enclosures

Slack and Splice Enclosures

Carlon's® state-of-the-art modification capabilities enable design of Slack and Splice Enclosures to meet specific application requirements.

Features:

- Slack and Splice Enclosures provide maximum protection of slack fiber and splice unit assemblies
- · Eliminates need for difficult aerial and vault splicing
- Stores adequate slack fiber to facilitate splicing at ground level work station
- Enclosure sized to maintain minimum required radius of fiber optic cable
- Splice tube to accommodate industry-standard splice and tray assemblies (splice enclosure only)



Fax: 901.252.1354

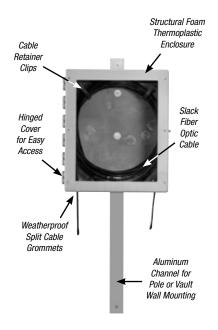
Tel: 888.862.3289

Technical Services



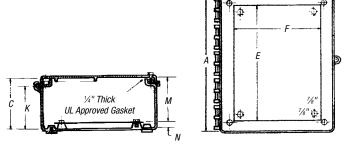
Slack and Splice Enclosures

Slack Enclosures



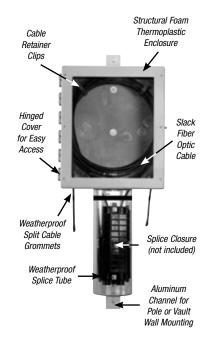


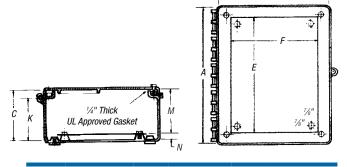




| | INSIDE BOX SIZE (IN.) | BOX OPENING (IN.) | DIMENSIONS (IN.) | | ٧.) |
|----------|--------------------------|----------------------|------------------|------|-----|
| CAT. NO. | AxBxC | ExF | K | М | N |
| SLK11 | 30 x 24 x 11½ | 271/4 x 211/4 | 101/4 | 10½ | 1 |
| SLK12 | 30 x 24 x 9½ | 271/4 x 211/4 | 81/4 | 81/2 | 1 |
| SLK21 | 24 x 20 x 11½ | 211/4 x 171/4 | 101/4 | 10½ | 1 |
| SLK22 | 24 x 20 x 91/2 | 211/4 x 171/4 | 81/4 | 81/2 | 1 |
| SLK31 | 20 x 16 x 11½ | 171/4 x 131/4 | 101/4 | 10½ | 1 |
| SLK32 | 20 x 16 x 9½ | 171/4 x 131/4 | 101/4 | 10½ | 1 |

Splice Enclosures





| INSIDE BOX SIZE (IN.) | | TUBE | BOX Opening (in.) | DIN | ENSIONS (| (IN.) |
|--------------------------|---------------|------|----------------------|-------|-----------|-------|
| CAT. NO. | AxBxC | SIZE | ExF | K | М | N |
| SPL111 | 30 x 24 x 11½ | 10 | 271/4 x 211/4 | 101/4 | 10½ | 1 |
| SPL122 | 30 x 24 x 9½ | 8 | 271/4 x 211/4 | 81/4 | 81/2 | 1 |
| SPL211 | 24 x 20 x 11½ | 10 | 211/4 x 171/4 | 101/4 | 10½ | 1 |
| SPL222 | 24 x 20 x 9½ | 8 | 211/4 x 171/4 | 81/4 | 81/2 | 1 |



United States

Tel: 901.252.8000 800.816.7809 Fax: 901.252.1354

Technical Services Tel: 888.862.3289



Carlon®

Technical Information

Factory Modifications for All Enclosures.

Color-Molded Enclosures

All Circuit Safe® enclosures can be molded in a variety of colors. Minimum quantities for single shipment or releases against blanket orders are required.

Painted/Silkscreened Enclosures

All enclosures can be painted, interior and exterior, or by special request. Enclosure covers can also be silkscreened on request.

EMI/RFI Protection

For applications where Radio Frequency Interference is a factor, the interior can be coated with an acrylic base paint with a nickel filler. Windows can be covered with fine copper mesh.

Other Modifications Available

Our factory is capable of modifying any of our enclosures to a customer's specifications. Factory's capabilities include:

- Precision milling of button holes, windows and pockets for keypad installations
- Hole tapping
- Ventilators
- Mounting bosses
- Access windows
- Hinged windows
- Mounted in-use weatherproof covers
- Handles for portable units
- Latches
- Enclosure coolers
- · Cylinder locking systems
- And more...



Painted JIC enclosure with painted back panel. Installed clear cover with handle and quick-release latch.



Color-molded JIC unit with addition of window and pushbuttons.



Molded junction box painted with addition of mounted weatherproof cover.



Painted JIC enclosure with pocket installed in cover for control pad.



United States
Tel: 901.252.8000
800.816.7809
Fax: 901.252.1354

Technical Services
Tel: 888.862.3289





NEMA Types — Definitions Pertaining to Non-Hazardous Locations.

Enclosures for Electrical Equipment

An enclosure is a surrounding case constructed to provide protection from accidental contact with the enclosed equipment and to provide protection to the enclosed equipment from specified environmental conditions. A brief description of the more common types of enclosures used by the electrical industry follows. For more information, see Table 110.28 of the National Electrical Code®.

Type 1 Enclosure:

Intended for indoor use, primarily to provide protection against contact with enclosed equipment and a degree of protection against falling dirt.

Type 2 Enclosure:

Intended for indoor use, primarily to provide a degree of protection against limited amounts of falling water and dirt.

Type 3 Enclosure:

Intended for outdoor use, primarily to provide a degree of protection against wind-blown dust, rain, sleet and external ice formation.

Type 3R Enclosure:

Intended for outdoor use, primarily to provide a degree of protection against falling rain, sleet and external ice formation.

Type 3S Enclosure:

Intended for outdoor use, primarily to provide a degree of protection against wind-blown dust, rain and sleet, and to provide for operation of external mechanism when ice laden.

Type 3X Enclosure:

Intended for outdoor use, primarily to provide a degree of protection against wind-blown dust, rain, sleet, external ice formation and corrosion.

Type 3SX Enclosure:

Intended for outdoor use, primarily to provide a degree of protection against wind-blown dust, rain, sleet and corrosion, and to provide for operation of external mechanism when ice laden.

Type 4 Enclosure:

Intended for indoor or outdoor use, primarily to provide a degree of protection against wind-blown dust and rain, splashing water and hose-directed water.

Type 4X Enclosure:

Intended for indoor or outdoor use, primarily to provide a degree of protection against corrosion, wind-blown dust and rain, splashing water and hose-directed water.

Type 6 Enclosure:

Intended for indoor or outdoor use, primarily to avoid a degree of protection against contact with enclosed equipment, falling dirt, hose-directed water, entry of water during occasional temporary submersion at a limited depth and external ice formation.

Type 6P Enclosure:

Intended for indoor or outdoor use, primarily to provide a degree of protection against contact with enclosed equipment, falling dirt, hose-directed water, entry of water during prolonged submersion at a limited depth and external ice formation.

Type 12 Enclosure:

Intended for indoor use, primarily to provide a degree of protection against dust, falling dirt and dripping non-corrosive liquids.

Type 13 Enclosure:

Intended for indoor use, primarily to provide a degree of protection against dust, spraying of water, oil and non-corrosive coolant.

NEC and National Electrical Code are registered trademarks of the National Fire Protection Association, Inc.



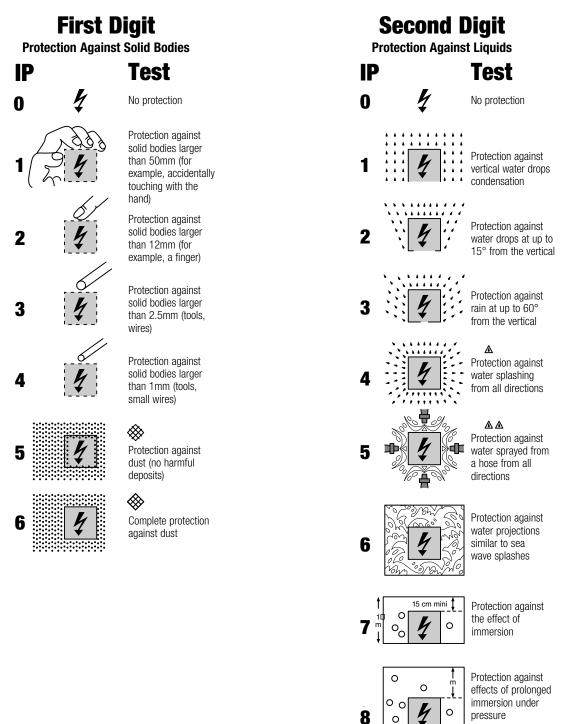
United States

Carlon®

Technical Information

International Standards IP Protection Classification Data.

The letters IP, followed by three characteristic numbers, symbolize the degree of protection.





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Engineering Properties of Enclosures

| | TEST | OPAQUE POLYCARBONATE | CLEAR POLYCARBONATE | | |
|--|-----------|---------------------------|------------------------|------------------------|------------------------|
| PROPERTY | METHOD | COVERS & BOXES | COVER | FRP | NORYL |
| Thermal And Mechanical | | | | | |
| Temperature Range (°F) | _ | -30° to 230° | -30° to 230° | -58° to 320° | -40° to 185° |
| Specific Gravity (oz.in ³) | ASTM D792 | 1.20 | 1.20 | 1.79 | .85 |
| Thermal Conductivity (BTU•in/hr•ft²•°F) | ASTM D177 | 1.35 | 1.35 | 1.68 | .86 |
| Heat Deflection Temperature @ 264 PSI (°F) | ASTM D648 | 265 | 260 | 392 | 180 |
| Tensile Strength (PSI) | ASTM D638 | 8,800 | 9,000 | 13,000 | 3,400 |
| Flexural Strength (PSI) | ASTM D790 | 13,500 | 14,000 | 19,000 | 6,800 |
| Compressive Strength @ 10% Deformation (PSI) | ASTM D695 | 12,500 | 12,500 | 24,000 | 5,200 |
| Impact Strength IZOD Notched (ft.lbs./in.) | ASTM D256 | 12 | 12 | 12 | _ |
| Water Absorption – 24 hrs. @ 73° F (%) | ASTM D570 | .15 | .15 | .17 | .06 |
| UV Rating | UL 746C | F1 | F1 | F2 | _ |
| Electrical | | | | | ., |
| Dielectric Strength (VOLTS/MIL.) | ASTM D149 | 380 | 380 | 467 | 192 |
| Dielectric Constant | ASTM D150 | | | | |
| 60 Hz | | | 3.0 | 3.0 | _ |
| 100 Hz | | | _ | _ | _ |
| 106 Hz | | | 2.96 | 2.96 | _ |
| Volume Resistivity @ 73° F (OHM-CM) | ASTM D257 | >1016 | >1016 | 2.0 x 10 ¹⁵ | 1.0 x 10 ¹⁶ |
| Arc Resistance (SEC) | ASTM D495 | 120 | 120 | 200+ | 67 |

Clearance Holes for Carflex® Fittings or PVC Male Terminal Adapters

| CARFLEX FITTINGS & PVC MALE TERMINAL ADAPTERS TRADE SIZES | NOMINAL SIZE (IN.) | ACTUAL SIZE (IN.) | ACTUAL SIZE (MM) |
|--|--------------------------|-------------------------|------------------------|
| 1/2 | .875 | .879 | 22.4 |
| 3/4 | 1.093 | 1.107 | 28.2 |
| 1 | 1.344 | 1.357 | 34.6 |
| 11⁄4 | 1.813 | 1.699 | 43.2 |
| 1½ | 1.938 | 1.949 | 49.6 |
| 2 | 2.375 | 2.413 | 61.5 |
| 21/2 | 2.875 | 2.914 | 74.0 |
| 3 | 3.5 | 3.539 | 89.8 |
| 31/2 | 4 | 4.044 | 102.7 |
| 4 | 4.5 | 4.544 | 115.4 |
| 5 | 5.625 | 5.675 | 143.7 |
| | | | |

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Environmental Resistance Table: E-Excellent, G-Good, L-Limited, U-Unsatisfactory

IMPORTANT: These environmental resistance ratings are based upon tests where the specimens were placed in complete submergence in the reagent listed. Ratings listed in this chart apply to a 48-hour exposure period. (The information in this chart is to be used ONLY as a guide in selecting equipment for appropriate chemical compatibility. Before permanent installation, test the equipment with the chemicals and under the specific conditions of your application.)

| | | | FRP | |
|---------------------------------|---|--|--|---|
| CHEMICAL | PVC Himeline HE Opaque Cover w/ Base | POLYCARBONATE Circuit Safe NEMA Circuit Safe JIC Himeline HE Clear Cover w/Base Himeline HS Opaque w/ Clear Lids | (Fiberglass Reinforced Polyester) Himeline HS — Bases Himeline HP Himeline HLA/HLS Himeline HLP | NORYL Circuit Safe Medium JIC |
| Acetaldehyde | U | L | _ | _ |
| Acetamide | U | U | _ | _ |
| Acetate Solvent | U | _ | _ | U |
| Acetic Acid | U | G | Е | Е |
| Acetic Acid 20% | Ü | E | E | E |
| Acetic Acid 80% | L | G | E | E |
| Acetic Acid, Glacial | Ü | G | E | E |
| Acetic Anhydride | U | Ü | E | U |
| Acetone | U | Ü | Ü | U |
| Acetyl Bromide | U | _ | _ | _ |
| Acetyl Chloride (dry) | L | U | _ | U |
| Acetylene | E | Ü | _ | _ |
| Acrylonitrile | G | Ü | _ | |
| Adipic Acid | E | _ | _ | _ |
| Alcohols:Amyl | E | G | _ | L |
| Alcohols:Benzyl | U | u | | U |
| Alcohols:Butyl | E | E | | E |
| Alcohols:Diacetone | G | L | _ | E |
| Alcohols:Ethyl | L | G G | _ | E |
| , | E | G | _ | E |
| Alcohols:Hexyl | E | _ | _ | |
| Alcohols:Isobutyl | _ | _ | _ | E |
| Alcohols:Isopropyl | E | E | | E |
| Alcohols:Methyl | Е | G | _ | E |
| Alcohols:Octyl | _ | _ | _ | E |
| Alcohols:Propyl | E | _ | _ | E |
| Aluminum Chloride | E | E | E | E |
| Aluminum Chloride 20% | E | E | _ | E |
| Aluminum Fluoride | E | _ | _ | E |
| Aluminum Hydroxide | E | G | _ | Е |
| Aluminum Nitrate | G | E | _ | _ |
| Aluminum Potassium Sulfate 10% | E | E | _ | E |
| Aluminum Potassium Sulfate 100% | E | E | _ | E |
| Aluminum Sulfate | E | E | E | E |
| Amines | U | U | _ | U |
| Ammonia 10% | G | U | _ | E |
| Ammonia Nitrate | G | _ | _ | E |
| Ammonia, anhydrous | Е | U | _ | G |
| Ammonia, liquid | Е | U | L | _ |
| Ammonium Acetate | E | _ | _ | _ |
| Ammonium Bifluoride | E | _ | _ | Е |
| Ammonium Carbonate | E | _ | L | Е |
| Ammonium Caseinate | _ | _ | _ | Е |
| Ammonium Chloride | E | E | Е | Е |
| Ammonium Hydroxide | E | U | L | E |
| Ammonium Nitrate | Е | _ | L | Е |
| Ammonium Oxalate | Е | E | _ | _ |
| Ammonium Persulfate | Е | _ | _ | Е |
| Ammonium Phosphate, Dibasic | E | E | – | E |

| CHEMICAL | PVC Himeline HE Opaque Cover w/Base | POLYCARBONATE Circuit Safe NEMA Circuit Safe JIC Himeline HE Clear Cover w/Base Himeline HS Opaque w/Clear Lids | FRP (Fiberglass Reinforced Polyester) Himeline HS — Bases Himeline HP Himeline HLA/HLS Himeline HLP | NORYL Circuit Safe Medium JIC |
|---|--|---|---|---|
| Ammonium Phosphate, Monobasic | Е | _ | _ | Е |
| Ammonium Phosphate, Tribasic | Е | _ | _ | Ε |
| Ammonium Sulfate | Е | E | E | Е |
| Ammonium Sulfite | Е | _ | Е | Е |
| Amyl Acetate | U | U | L | U |
| Amyl Alcohol | Е | G | L | L |
| Amyl Chloride | U | _ | U | U |
| Aniline | L | U | U | U |
| Aniline Hydrochloride | G | U | _ | _ |
| Antifreeze | Е | _ | _ | Ε |
| Antimony Trichloride | Е | E | Е | Е |
| Aqua Regia (80% HCl, 20% HNO ₃) | L | U | _ | U |
| Aromatic Hydrocarbons | U | _ | _ | U |
| Arsenic Acid | Е | Е | _ | Ε |
| Arsenic Salts | Е | _ | _ | _ |
| Asphalt | Е | U | _ | _ |
| Barium Carbonate | Е | E | E | Е |
| Barium Chloride | Е | Е | Е | Ε |
| Barium Cyanide | U | _ | _ | _ |
| Barium Hydroxide | Е | U | U | Е |
| Barium Nitrate | Е | U | _ | Е |
| Barium Sulfate | G | U | Е | Е |
| Barium Sulfide | Е | _ | Е | Е |
| Beer | Е | Е | _ | Ε |
| Beet Sugar Liquids | Е | _ | _ | Е |
| Benzaldehyde | U | U | U | G |
| Benzene | L | U | L | U |
| Benzene Sulfonic Acid | Е | U | Е | Ε |
| Benzoic Acid | Е | G | _ | G |
| Benzol | _ | U | _ | G |
| Benzonitrile | _ | E | _ | _ |
| Benzyl Chloride | _ | _ | _ | U |
| Bleaching Liquors | Е | _ | _ | _ |
| Borax (Sodium Borate) | Е | _ | _ | Ε |
| Boric Acid | Е | _ | E | Ε |
| Bromine | L | L | _ | Ε |
| Butadiene | L | U | _ | U |
| Butane | L | U | _ | U |
| Butanol (Butyl Alcohol) | L | G | _ | Е |
| Butyl Amine | U | U | _ | U |
| Butyl Ether | Е | _ | _ | U |
| Butyl Phthalate | _ | U | _ | Е |
| Butylacetate | U | U | U | G |
| Butylene | E | U | _ | _ |
| Butyric Acid | G | U | _ | U |
| Calcium Bisulfate | _ | U | _ | _ |
| Calcium Bisulfide | Е | _ | _ | Е |
| Calcium Bisulfite | G | U | _ | Е |

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Environmental Resistance Table: E-Excellent, G-Good, L-Limited, U-Unsatisfactory

IMPORTANT: These environmental resistance ratings are based upon tests where the specimens were placed in complete submergence in the reagent listed. Ratings listed in this chart apply to a 48-hour exposure period. (The information in this chart is to be used ONLY as a guide in selecting equipment for appropriate chemical compatibility. Before permanent installation, test the equipment with the chemicals and under the specific conditions of your application.)

| CHEMICAL | PVC Himeline HE Opaque Cover w/ Base | POLYCARBONATE Circuit Safe NEMA Circuit Safe JIC Himeline HE Clear Cover w/Base Himeline HS Opaque w/Clear Lids | FRP (Fiberglass Reinforced Polyester) Himeline HS — Bases Himeline HP Himeline HLA/HLS Himeline HLP | NORYI Circuit Safe Mediun JIC |
|----------------------------|---|---|--|---|
| Calcium Carbonate | Е | L | E | Е |
| Calcium Chlorate | G | _ | E | _ |
| Calcium Chloride | L | _ | E | Е |
| Calcium Hydroxide | G | U | Ü | E |
| Calcium Hypochlorite | G | Ü | L | E |
| Calcium Nitrate | E | E | E | E |
| Calcium Oxide | G | _ | _ | E |
| Calcium Sulfate | G | Е | Е | E |
| Calgon | _ | _ | _ | E |
| Cane Juice | Е | _ | _ | _ |
| Carbolic Acid (Phenol) | Ü | U | _ | U |
| Carbon Bisulfide | U | _ | L | _ |
| Carbon Dioxide (dry) | E | _ | | Е |
| Carbon Dioxide (wet) | E | _ | _ | E |
| Carbon Disulfide | U | U | _ | U |
| Carbon Monoxide | E | _ | _ | E |
| Carbon Tetrachloride | U | U | Е | U |
| Carbon Tetrachloride (dry) | _ | _ | _ | U |
| Carbon Tetrachloride (wet) | | | _ | U |
| Carbon Disulfide | U | U | _ | U |
| Carbon Monoxide | E | U | _ | E |
| Carbon Tetrachloride | U | U | <u>—</u> Е | U |
| Carbon Tetrachloride (dry) | — | U | С | U |
| Carbon Tetrachloride (wet) | | _ | _ | U |
| Carbonated Water | E | | _ | E |
| Carbonic Acid | E | E | _ | E |
| | E | | _ | E |
| Catsup Chlorio Apid | E | _ | _ | U |
| Chloric Acid | U | _ | _ | G |
| Chlorine (dry) | E | _ | <u>—</u> Е | |
| Chlorine Water | U | _ L | Е | L |
| Chlorine, Anhydrous | U | L | _ | G |
| Liquid | _ | - 11 | | |
| Chloroacetic Acid | G U | U | U | |
| Chlorobenzene (Mono) | - | U | U | U |
| Chlorobromomethane | U | | _ | |
| Chloroform | U | U | _ | U |
| Chlorosulfonic Acid | U | L | _ | U |
| Chocolate Syrup | _ | E | _ | E |
| Chromic Acid 10% | E | G | E | E |
| Chromic Acid 30% | E | L | | U |
| Chromic Acid 5% | E | G | _ | E |
| Chromic Acid 50% | U | U | _ | U |
| Chromium Salts | E | _ | _ | _ |
| Citric Acid | G | Е | Е | E |
| Citric Oils | _ | _ | _ | E |
| Clorox® (Bleach) | E | _ | _ | Е |
| Copper Chloride | Е | _ | _ | Е |
| Copper Cyanide | E | U | _ | E |
| Copper Fluoborate | E | _ | _ | I — |

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|---------------------------------|--|---|---|---|
| | E | U | TIIITOIITIO TIEI | E |
| Copper Nitrate | | - | _ | |
| Copper Sulfate >5% | E | E | _ | E |
| Copper Sulfate 5% | E | E | | E |
| Cresols | U | U | U | U |
| Cresylic Acid | U | U | _ | _ |
| Cupric Acid | E | E | _ | E |
| Cyclohexane | U | G | _ | U |
| Cyclohexanone | U | U | _ | U |
| Detergents | Е | E | _ | E |
| Diacetone Alcohol | U | U | _ | _ |
| Dichlorobenzene | U | U | _ | _ |
| Dichloroethane | U | U | _ | E |
| Diesel Fuel | E | E | _ | U |
| Diethyl Ether | U | U | _ | _ |
| Diethylamine | U | U | _ | _ |
| Diethylene Glycol | L | G | _ | E |
| Dimethyl Aniline | U | U | U | U |
| Dimethyl Formamide | U | U | _ | U |
| Diphenyl Oxide | U | _ | _ | _ |
| Dyes | G | _ | _ | E |
| Epsom Salts (Magnesium Sulfate) | E | E | _ | E |
| Ethane | Е | _ | _ | _ |
| Ethanol | L | G | _ | Е |
| Ethanolamine | U | _ | _ | Е |
| Ether | U | _ | L | U |
| Ethyl Acetate | U | U | L | Е |
| Ethyl Benzoate | U | U | _ | Е |
| Ethyl Chloride | U | U | L | U |
| Ethyl Ether | U | _ | U | U |
| Ethylene Bromide | U | U | _ | _ |
| Ethylene Chloride | U | U | _ | U |
| Ethylene Chlorohydrin | U | U | Е | _ |
| Ethylene Diamine | U | Е | _ | U |
| Ethylene Dichloride | U | U | U | U |
| Ethylene Glycol | E | G | E | E |
| Ethylene Oxide | U | L | _ | E |
| Fatty Acids | E | G | _ | E |
| Ferric Chloride | E | Ē | Е | E |
| Ferric Nitrate | E | E | E | E |
| Ferric Sulfate | E | E | E | E |
| Ferrous Chloride | E | U | E | E |
| Ferrous Sulfate | E | E | E | E |
| Fluoboric Acid | E | _ | _ | E |
| Fluorine | U | L | _ | _ |
| Fluosilicic Acid | U | E | | E |
| Formaldehyde 100% | E | E | _ | E |
| Formaldehyde 40% | E | E | E E | E |
| Formic Acid | E | E | L | E |

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Environmental Resistance Table: E-Excellent, G-Good, L-Limited, U-Unsatisfactory

IMPORTANT: These environmental resistance ratings are based upon tests where the specimens were placed in complete submergence in the reagent listed. Ratings listed in this chart apply to a 48-hour exposure period. (The information in this chart is to be used ONLY as a guide in selecting equipment for appropriate chemical compatibility. Before permanent installation, test the equipment with the chemicals and under the specific conditions of your application.)

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|----------------------------|--|---|---|---|
| Freon 113 | G | G | | U |
| Freon 12 | E | _ | _ | U |
| Freon 22 | E | _ | _ | G |
| Freon TF | G | _ | _ | _ |
| Freon® 11 | E | _ | _ | G |
| Fuel Oils | E | G | _ | G |
| Furan Resin | E | _ | _ | _ |
| Furfural | Ū | U | L | U |
| Gallic Acid | G | _ | _ | E |
| Gasoline (high-aromatic) | E | Е | _ | G |
| Gasoline, leaded, ref. | G | E | Е | G |
| Gasoline, unleaded | L | E | _ | U |
| Gelatin | G | _ | _ | E |
| Glucose | E | E | Е | E |
| Glue, P.V.A. | L | _ | _ | _ |
| Glycerin | E | Е | Е | Е |
| Glycolic Acid | G | _ | _ | _ |
| Grease | E | _ | _ | _ |
| Heptane | L | G | Е | G |
| Hexane | G | U | U | G |
| Hydraulic Oil (Petro) | E | _ | _ | — |
| Hydraulic Oil (Synthetic) | E | _ | _ | _ |
| Hydrazine | _ | U | _ | _ |
| Hydrobromic Acid 100% | Е | _ | _ | G |
| Hydrobromic Acid 20% | G | _ | _ | G |
| Hydrochloric Acid 100% | U | U | _ | E |
| Hydrochloric Acid 20% | E | G | Е | E |
| Hydrochloric Acid 37% | G | U | Ĺ | Ē |
| Hydrochloric Acid, Dry Gas | E | _ | _ | Ē |
| Hydrocyanic Acid | G | _ | _ | E |
| Hydrocyanic Acid (Gas 10%) | E | G | _ | L |
| Hydrofluoric Acid 100% | L | Ü | _ | Ū |
| Hydrofluoric Acid 20% | G | Ü | _ | L |
| Hydrofluoric Acid 50% | G | Ü | _ | Ū |
| Hydrofluoric Acid 75% | Ĺ | Ü | _ | Ü |
| Hydrofluosilicic Acid 100% | G | _ | _ | G |
| Hydrofluosilicic Acid 20% | E | _ | _ | G |
| Hydrogen Gas | E | Е | _ | E |
| Hydrogen Peroxide 10% | E | E | _ | E |
| Hydrogen Peroxide 100% | E | E | _ | E |
| Hydrogen Peroxide 30% | E | E | Е | E |
| Hydrogen Peroxide 50% | E | Ē | Ē | _ |
| Hydrogen Sulfide (aqua) | G | E | _ | Е |
| Hydrogen Sulfide (dry) | E | _ | _ | _ |
| Hydroguinone | G | _ | _ | _ |
| Hydroxyacetic Acid 70% | U | _ | _ | _ |
| Ink | L | _ | _ | _ |
| lodine | E | _ | _ | L |
| • | | | | |

| CHEMICAL | PVC Himeline HE Opaque Cover w/Base | POLYCARBONATE Circuit Safe NEMA Circuit Safe JIC Himeline HE Clear Cover w/Base Himeline HS Opaque w/Clear Lids | (Fiberglass Reinforced Polyester) Himeline HS — Bases Himeline HP Himeline HLA/HLS Himeline HLP | NORYL Circuit Safe Medium JIC |
|---------------------------------|--|---|---|---|
| lodine (in alcohol) | Е | _ | _ | _ |
| lodoform | Е | _ | _ | _ |
| Isooctane | E | G | _ | U |
| Isopropyl Acetate | U | U | _ | _ |
| Isopropyl Ether | G | U | _ | _ |
| Isotane | E | _ | _ | _ |
| Jet Fuel (JP3, JP4, JP5) | L | Е | _ | U |
| Kerosene | E | Ū | _ | U |
| Ketones | U | U | _ | U |
| Lacquer Thinners | U | G | _ | U |
| Lacquers | Ü | Ü | _ | Ü |
| Lactic Acid | G | G | Е | E |
| Lard | Ē | Ë | _ | Ē |
| Lead Acetate | G | _ | _ | Е |
| Lead Nitrate | E | _ | _ | E |
| Lead Sulfamate | G | Е | _ | _ |
| Lime | G | _ | _ | _ |
| Linoleic Acid | E | _ | _ | _ |
| Lithium Chloride | Ū | G | _ | _ |
| Lithium Hydroxide | _ | Ü | _ | _ |
| Lubricants | G | Ē | _ | L |
| Lye: Ca(OH), Calcium Hydroxide | G | Ū | _ | Ē |
| Lye: KOH Potassium Hydroxide | G | Ü | _ | E |
| Lye: NaOH Sodium Hydroxide | E | Ü | _ | Ē |
| Epsom Salts (Magnesium Sulfate) | E | Ē | _ | E |
| Magnesium Bisulfate | E | E | _ | _ |
| Magnesium Carbonate | G | Ē | Е | Е |
| Magnesium Chloride | G | Е | Е | Е |
| Magnesium Hydroxide | E | Е | G | Е |
| Magnesium Nitrate | Е | Е | _ | Е |
| Magnesium Oxide | _ | _ | _ | _ |
| Magnesium Sulfate (Epsom Salts) | Е | Е | Е | Е |
| Maleic Acid | Е | _ | _ | Е |
| Malic Acid | Е | _ | _ | _ |
| Manganese Sulfate | L | Е | _ | Е |
| Mayonnaise | U | _ | _ | _ |
| Melamine | U | _ | _ | _ |
| Mercuric Chloride (dilute) | Е | Е | _ | Е |
| Mercuric Cyanide | Е | _ | _ | _ |
| Mercurous Nitrate | Е | Е | _ | Е |
| Mercury | E | Ū | _ | E |
| Methane | G | _ | _ | _ |
| Methanol (Methyl Alcohol) | E | G | L | Е |
| Methyl Acetate | U | Ü | _ | _ |
| Methyl Acetone | Ü | _ | _ | _ |
| Methyl Alcohol 10% | E | G | _ | Е |
| Methyl Bromide | U | _ | _ | _ |
| Mathed Detail Katana | г | - 11 | | |



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Methyl Butyl Ketone





Environmental Resistance Table: E-Excellent, G-Good, L-Limited, U-Unsatisfactory

IMPORTANT: These environmental resistance ratings are based upon tests where the specimens were placed in complete submergence in the reagent listed. Ratings listed in this chart apply to a 48-hour exposure period. (The information in this chart is to be used ONLY as a guide in selecting equipment for appropriate chemical compatibility. Before permanent installation, test the equipment with the chemicals and under the specific conditions of your application.)

| | PVC Himeline HE Opaque Cover | POLYCARBONATE Circuit Safe NEMA Circuit Safe JIC Himeline HE Clear Cover w/Base Himeline HS | FRP (Fiberglass Reinforced Polyester) Himeline HS Bases Himeline HP Himeline HLA/HLS | NORYL Circuit Safe Medium |
|---|--|---|--|------------------------------------|
| CHEMICAL | w/Base | Opaque w/Clear Lids | Himeline HLP | JIC |
| Methyl Cellosolve | U | U | _ | _ |
| Methyl Chloride | U | U | _ | U |
| Methyl Dichloride | E | _ | _ | _ |
| Methyl Ethyl Ketone | U | U | Е | U |
| Methyl Isobutyl Ketone | U | U | _ | U |
| Methyl Isopropyl Ketone | U | U | _ | U |
| Methyl Methacrylate | E | _ | _ | — |
| Methylamine | U | _ | _ | _ |
| Methylene Chloride | U | U | U | U |
| Mineral Spirits | E | L | _ | E |
| Monochloroacetic acid | _ | U | _ | _ |
| Monoethanolamine | U | _ | _ | E |
| Morpholine | _ | U | _ | U |
| Motor oil | G | E | _ | E |
| Naphtha | E | G | Е | U |
| Naphthalene | U | _ | _ | U |
| Natural Gas | E | _ | _ | _ |
| Nickel Chloride | E | E | _ | E |
| Nickel Nitrate | Е | U | _ | E |
| Nickel Sulfate | E | E | _ | E |
| Nitrating Acid (<15% HNO ₃) | U | _ | _ | _ |
| Nitrating Acid (>15% H ₂ SO ₄) | U | _ | _ | _ |
| Nitrating Acid (_1% Acid) | U | _ | _ | _ |
| Nitrating Acid (_15% H ₂ SO ₄) | U | _ | _ | _ |
| Nitric Acid (20%) | Е | G | G | G |
| Nitric Acid (50%) | G | G | _ | G |
| Nitric Acid (50%) | G | G | _ | G |
| Nitric Acid (5-10%) | E | E | _ | E |
| Nitric Acid (Concentrated) | G | L | _ | G |
| Nitrobenzene | U | U | L | U |
| Nitromethane | G | U | _ | U |
| Nitrous Acid | E | _ | _ | _ |
| Nitrous Oxide | E | _ | _ | _ |
| Oil: Aniline | U | _ | _ | U |
| Oil: Citric | G | E | _ | E |
| Oil: Creosote | L | _ | _ | U |
| Oil: Diesel Fuel (20, 30, 40, 50) | G | _ | _ | U |
| Oil: Diesel Fuel (20, 30, 40, 50) | G | _ | _ | U |
| Oil: Hydraulic Oil (Petro) | Е | _ | _ | _ |
| Oil: Hydraulic Oil (Synthetic) | Е | _ | _ | _ |
| Oil: Mineral | G | G | _ | Е |
| Oil: Olive | L | Е | _ | Е |
| Oil: Orange | L | L | _ | _ |
| Oil: Pine | U | Е | _ | _ |
| Oil: Rosin | L | _ | _ | _ |
| Oil: Silicone | Е | _ | _ | Е |
| Oil: Transformer | G | _ | _ | _ |
| Oil: Turbine | Е | _ | _ | _ |

| | | | FRP | |
|--------------------------------------|--------------|-----------------------|----------------------|-----------------|
| | | POLYCARBONATE | | |
| | | Circuit Safe NEMA | Reinforced | |
| | PVC | Circuit Safe JIC | Polyester) | |
| | Himeline | | Himeline HS — | NORYL |
| | HE Opaque | Clear Cover w/Base | Bases Himeline HP | Circuit Safe |
| | Cover | Himeline HS | Himeline HLA/HLS | Medium |
| CHEMICAL | w/Base | Opaque w/Clear Lids | Himeline HLP | JIC |
| Oleic Acid | L | _ | Е | Е |
| Oleum 100% | U | _ | _ | Ε |
| Oleum 25% | U | _ | _ | _ |
| Oxalic Acid (cold) | G | _ | Е | E |
| Ozone | G | Е | _ | _ |
| Palmitic Acid | G | _ | _ | _ |
| Paraffin | G | E | _ | Е |
| Pentane | E | E | _ | |
| Perchloric Acid | L | _ | _ | |
| Perchloroethylene | L | U | _ | U |
| Petrolatum | G | _ | _ | _ |
| Petroleum | _ | _ | _ | U |
| Phenol (10%) | L | G | L | U |
| Phenol (Carbolic Acid) | U | U | _ | U |
| Phosphoric Acid (>40%) | G | E | _ | E E |
| Phosphoric Acid (crude) | G | E — | _ | <u> </u> |
| Phosphoric Acid (molten) | U | | _ | |
| Phosphoric Acid (_40%) | G — | E U | _ | Е |
| Phosphoric Acid Anhydride | E | U | _ | _ |
| Phosphorus Phosphorus Trichloride | U | L | _ | _ |
| Photographic Developer | E | E | | E |
| Photographic Solutions | E | E | _ | E |
| Phthalic Anhydride | U | E | | L |
| Picric Acid | U | U | _ | |
| Potash (Potassium Carbonate) | E | | L | E |
| Potassium Bicarbonate | E | _ | _ | E |
| Potassium Bromide | E | Е | _ | E |
| Potassium Chlorate | E | E | _ | E |
| Potassium Chloride | Ē | Ē | E | E |
| Potassium Chromate | E | _ | Ē | E |
| Potassium Cyanide Solutions | E | _ | _ | E |
| Potassium Dichromate | E | Е | _ | E |
| Potassium Ferricyanide | E | _ | Е | E |
| Potassium Ferrocyanide | Е | _ | Е | Е |
| Potassium Hydroxide (Caustic Potash) | Е | U | L | Е |
| Potassium Hypochlorite | G | _ | _ | _ |
| Potassium Iodide | Е | _ | _ | _ |
| Potassium Nitrate | Е | Е | Е | Е |
| Potassium Oxalate | _ | _ | _ | _ |
| Potassium Permanganate | Е | E | E | Е |
| Potassium Sulfate | Е | E | Е | Е |
| Potassium Sulfide | Е | _ | _ | Е |
| Propane (liquefied) | Е | L | _ | Е |
| Propylene | G | _ | _ | _ |
| Propylene Glycol | L | G | _ | _ |
| Pyridine | U | U | _ | G |
| Pyrogallic Acid | E | _ | _ | — |

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|---------------------------------|--|---|---|---|
| Resorcinal | L | G | _ | _ |
| Rosins | L | _ | _ | _ |
| Salicylic Acid | G | Е | _ | _ |
| Salt Brine (NaCl saturated) | E | E | _ | Е |
| Sea Water | E | E | _ | E |
| Silicone | E | E | _ | E |
| Silver Bromide | _ | _ | _ | E |
| Silver Nitrate | Е | E | _ | E |
| Soap Solutions | E | E | _ | E |
| Soda Ash (see Sodium Carbonate) | E | E | _ | E |
| Sodium Acetate | G | E | Е | E |
| Sodium Aluminate | <u>u</u> | _ | _ | E |
| Sodium Benzoate | G | Е | _ | _ |
| Sodium Bicarbonate | E | E | Е | Е |
| Sodium Bisulfate | E | E | _ | E |
| Sodium Bisulfite | E | Ē | _ | E |
| Sodium Borate (Borax) | E | E | _ | E |
| Sodium Bromide | G | _ | E | Ē |
| Sodium Carbonate | E | Е | _ | E |
| Sodium Chlorate | Ē | Ē | Е | E |
| Sodium Chloride | E | E | E | E |
| Sodium Chromate | _ | Ē | _ | E |
| Sodium Cyanide | Е | _ | _ | E |
| Sodium Ferrocyanide | Ē | _ | Е | E |
| Sodium Fluoride | E | _ | _ | E |
| Sodium Hydrosulfite | L | _ | _ | _ |
| Sodium Hydroxide (20%) | E | Е | U | Е |
| Sodium Hydroxide (50%) | E | U | Ü | E |
| Sodium Hydroxide (80%) | E | U | Ü | Е |
| Sodium Hypochlorite (<20%) | E | Ĺ | Ĺ | E |
| Sodium Hypochlorite (100%) | G | _ | _ | Е |
| Sodium Metaphosphate | E | _ | _ | _ |
| Sodium Metasilicate | Е | _ | _ | _ |
| Sodium Nitrate | Е | _ | U | Е |
| Sodium Perborate | Е | _ | _ | Е |
| Sodium Peroxide | G | Е | _ | _ |
| Sodium Polyphosphate | Е | _ | _ | Е |
| Sodium Silicate | Е | _ | _ | Е |
| Sodium Sulfate | Е | Е | Е | Е |
| Sodium Sulfide | Е | U | U | Е |
| Sodium Sulfite | Е | _ | Е | Е |
| Sodium Tetraborate | Е | _ | _ | Е |
| Sodium Thiosulfate (hypo) | Е | U | _ | Е |
| Stannic Chloride | E | E | _ | E |
| Stannic Fluoborate | _ | _ | _ | Е |
| Stannous Chloride | E | _ | _ | Е |
| Stearic Acid | G | E | _ | Е |
| Stoddard Solvent | L | Е | _ | U |
| Styrene | U | U | _ | Е |

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|---------------------------------------|--|---|---|---|
| Sulfate (Liquors) | G | | | |
| Sulfur Chloride | Ľ | _ | _ | Е |
| Sulfur Dioxide | Ē | _ | _ | E |
| Sulfur Dioxide (drv) | E | Е | _ | E |
| Sulfur Hexafluoride | G | _ | _ | _ |
| Sulfur Trioxide | E | _ | _ | U |
| Sulfur Trioxide (dry) | E | _ | _ | U |
| Sulfuric Acid (<10%) | E | Е | E | E |
| Sulfuric Acid (10–75%) | E | G | U | E |
| Sulfuric Acid (75–100%) | U | U | | E |
| Sulfuric Acid (cold concentrated) | U | _ | _ | E |
| Sulfuric Acid (hot concentrated) | U | U | _ | U |
| Sulfurous Acid | E | — | | E |
| Tallow | _ | | | E |
| Tannic Acid | E | _ | _ | E |
| | E | L | _ | E |
| Tanning Liquors Tartaric Acid | E | _ | E E | E |
| Tetrachloroethane | L | _ | Е | U |
| | l U | U | _ | U |
| Tetrachloroethylene | - | - | | |
| Tetrahydrofuran | U E | U | L | U |
| Tin Salts | _ | | _ | _ |
| Toluene (Toluol) Trichloroacetic Acid | U G | U | | U — |
| | | - | _ | |
| Trichloroethane | L | U — | U | U |
| Trichloroethylene | U | _ | U | |
| Trichloropropane | U U | _ | _ | U E |
| Tricresylphosphate | | _ | _ | |
| Triethylamine | G | _ | _ | G |
| Trisodium Phosphate | E | | | E |
| Turpentine | U | U | E | U |
| Urea | U | U | L | Е |
| Uric Acid | E | _ | _ | |
| Varnish | U | _ | | U |
| Vinegar | G | E | E | Е |
| Vinyl Acetate | U | _ | _ | _ |
| Vinyl Chloride | U | _ | _ | _ |
| Water, Acid, Mine | G | G | _ | _ |
| Water, Deionized | E E | _ | _ | E |
| Water, Distilled | | Е | _ | E |
| Beet Sugar Liquids | E | _ | _ | E |
| Water, Fresh | G | E | _ | E |
| Water, Salt | G | E | _ | E |
| Whiskey & Wines | E | E | _ | E |
| White Liquor (Pulp Mill) | E | _ | _ | E |
| White Water (Paper Mill) | E | | _ | U |
| Xylene Zina Oldanida | U | U | E | G |
| Zinc Chloride | G | E | E | E |
| Zinc Hydrosulfite | _ | _ | _ | E |



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Zinc Sulfate

