Single solution source for business without borders

Multistandard offer for OEM applications
Improving customer satisfaction means producing industrial machines that are compliant to all international standards, more efficient, and cost effective for clients worldwide.

Now, more than ever, your choice for automation and power solutions is a key factor in developing enhanced processes at every step, from design and development to implementation and maintenance.
Schneider Electric multistandard offer: 
Solutions you can trust

Schneider Electric helps you meet all global standards for industrial machinery applications with the multistandard offer for international OEMs.

A single solution that meets all your needs and every standard. That’s our multistandard offer for OEMs.

Our circuit breakers and motor control units are designed to meet your needs. Deploy them for all your applications — they’re ready to go.

Maintenance is minimal, but our support teams are available 24/7.

You order, we ship
All our multistandard product offers have a single global part number, for error-free, at-a-glance selections.

Simplicity starts with full availability. We guarantee our products will be available. You order. We ship, worldwide.

Quick customization
Safety, reliability, high-performance, and peace of mind.

Our rugged enclosures are designed to be assembled quickly and are fully customizable. Build your circuit protection solutions with Schneider Electric™ products and you’ll have access to affordable design and engineering expertise.

Multistandard offer for OEM applications

The one-stop shop that supplies, applies, complies

Trust Schneider Electric to give you that competitive edge over your competitors. Make us your partner as you take on new export markets.

Trust us …

To supply
for your circuit breakers, motor starters, and enclosures, look no further than Schneider Electric. We are worldwide.
Make us your one-stop shop.

To apply
Our solutions come to you tested and validated specifically for your application.

To comply
Using UL, IEC®, CCC, or CSA, our multistandard offer will always comply and set a new standard of reliability and high performance.

UL conformity — peace of mind certified
North America’s UL is a wide-ranging product safety standard. Its certification program is complex and demanding. Schneider Electric has a team of experts who can help OEMs design panel boards to UL standards. They can guide you, or co-engineer a comprehensive solution with you. Peace of mind certified.
A truly comprehensive range of feeder protection and circuit disconnect solutions

- Our PowerPact™ CBs boast unrivalled reliability for heavy-duty applications. Our Interpact™ molded case switch protects branch circuits outside control panels, while our TeSys™ Vario is designed for onload circuit breaking.

Compact, cost-effective motor load protection and control

- Our direct online (DOL) starters and variable speed drive starters are easy to run and install. They need no upstream branch circuit.

Renowned, multiple-mount miniature circuit breakers

- Our miniature circuit breakers are big on safety, versatility, and trip speeds. They bring high breaking capacity to your heat and light systems.

Enclosures for cool, safe equipment

- Our enclosures ensure complete protection in the roughest, toughest environments and keep your equipment cool.

Regardless of a control panel’s industrial application, its protection systems and devices must comply with applicable international standards:

- IEC 60-204 safety of machinery
- UL 508A industrial control panel

They should also comply with Europe’s CE Mark, China’s CCC-mark, and Canada’s CSA standard. Components and component combinations that meet multiple standards are equally important to design and size for ensuring that control panels meet legal requirements across international markets.

The Schneider Electric Multistandard Offer for OEMs is a range of customizable protection solutions which you can trust to meet your needs and your customers’ standards.

All our solutions have proven themselves in markets and industrial applications worldwide, they answer diverse machine applications needs spanning automation devices, elevators, hoists, lift trucks, bottling plants, ships, control systems, and more.

Whatever your selection, you select peace of mind.

Multistandard control panels are your best solution
Feeder protection and circuit disconnection

PowerPact multistandard molded case circuit breakers

Proven performance
Industry-leading circuit breaker innovation and protection for heavy-duty commercial and industrial applications.

Flexible
Full range of molded case breakers from 15 A to 600 A deliver the ratings, configurations, and operations for your unique application.

Simple
Common catalogue numbers, standardized ratings, and a full-range of field-installable accessories make product selection, installation, and maintenance easier than ever.

Direct access to energy efficiency
Micrologic™ electronic trip units enable power and energy management.

PowerPact B Circuit Breakers
Multistandard PowerPact B circuit breakers are a 125 A molded-case circuit breaker solution offering great performance in a compact frame size. PowerPact Multistandard circuit breakers are a Schneider Electric global offering of UL listed, CSA, IEC, CCC, and EAC circuit breakers.

PowerPact B main features and innovations:
• Up to 125 A and 100 kA
• Fixed thermal-magnetic trip unit integrated
• Auxiliaries externally visible
• EverLink connectors
• Built-in DIN rail and plate mount
• A variety of operating mechanisms

<table>
<thead>
<tr>
<th>Breaker type</th>
<th>PowerPact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of poles</td>
<td>BD</td>
</tr>
<tr>
<td>Current range</td>
<td>1-4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Interrupting Ratings</th>
<th>UL/CSA/NOM rating (kA RMS) (50/60 Hz AC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>240 VAC</td>
<td>25</td>
</tr>
<tr>
<td>480 Y/277 VAC</td>
<td>18</td>
</tr>
<tr>
<td>480 VAC*</td>
<td>18</td>
</tr>
<tr>
<td>600 Y/347 VAC†</td>
<td>14</td>
</tr>
<tr>
<td>600 VAC</td>
<td>...</td>
</tr>
<tr>
<td>DC ratings</td>
<td>250 VDC</td>
</tr>
<tr>
<td>500 VDC</td>
<td>...</td>
</tr>
<tr>
<td>IEC 60947-2 kA RMS (50/60 Hz AC)</td>
<td>220/240 VAC</td>
</tr>
<tr>
<td>380/415 VAC</td>
<td>18/18</td>
</tr>
</tbody>
</table>

| Accessories          |             |
| Shunt Trip           | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Undervoltage Trip    | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Auxiliary Switches   | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Handle Operators     | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Mechanical Interlocks| ... | ... | ... | * | * | * | * | * | * | * | * | * | * |
| Handle Padlock Attachment | * | * | * | * | * | * | * | * | * | * | * | * | * |

| Trip System Type     |             |
| Thermal magnetic     | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Electronic           | ... | ... | ... | * | * | * | * | * | * | * | * | * | * |
| Automatic Molded Case Switch | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Motor Circuit Protector | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |

| Enclosures |             |
| Dimensions (three-pole unit mount) | Height mm (in.) | 137 (5.4) | 163 (6.4) | 191 (7.5) | 340 (13.38) |
|           | Width mm (in.) | 81 (3.2) | 104 (4.1) | 104 (4.1) | 140 (5.51) |
|           | Depth mm (in.) | 80 (3.1) | 111 (4.4) | 127 (5.0) | 168 (6.61) |

Interpact IEC947-3/UL489 molded case switch
When branch circuit protection is outside the control panel, an UL 489 molded case switch alone can easily perform as the main disconnect switch. Our Interpact INSE/INJ offers all the safety that the user requires. Designed for maximum performance and safety, this comprehensive, homogeneous range operates with numerous accessories and auxiliaries from 40A up to 400A.

TeSys Vario IEC947-3/UL508 load break switch
This switch should be installed on the load side of a motor branch circuit protection system. TeSys Vario rotary switch disconnectors from 12 to 175 A are suitable for the onload making and breaking of resistive or mixed resistive and inductive circuits where frequent operation is required.
In addition to the PowerPact molded case circuit breakers offer, IEC 947-2/UL 489 miniature circuit breakers and UL 248 fuses should be used to protect loads like power transformers, the power supply, appliances, and heating and lighting.

Multi 9™ C60 is the first extensive range of DIN rail-mounted miniature circuit breakers to be UL 489 listed for branch circuit protection. Other Multi 9 devices are UL recognized as supplementary protectors suitable for applications where branch circuit protection is already provided or not required. Multi 9 C60 products also have IEC ratings. Other IEC-rated products complement the UL line up to 125 A at up to 440 VAC.

### Branch circuit and control circuit protection

**Multi 9 miniature circuit breakers**

<table>
<thead>
<tr>
<th>Breaker type</th>
<th>C608P and C608PR - UL489</th>
<th>C60SP - UL1077</th>
<th>UL 1077 C60H-DC</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Current range</td>
<td>0.5…35A</td>
<td>40…63A</td>
<td>0.5…35A</td>
</tr>
<tr>
<td>UL/CSA/NOM rating</td>
<td>120 Vac</td>
<td>14</td>
<td>10</td>
</tr>
<tr>
<td>(kA RMS)</td>
<td>240 Vac</td>
<td>14</td>
<td>10</td>
</tr>
<tr>
<td>(50/60 Hz AC)</td>
<td>277 Vac</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>480 VAC</td>
<td>10</td>
<td></td>
<td>10</td>
</tr>
<tr>
<td>DC ratings (UL)</td>
<td>600 Vac</td>
<td></td>
<td></td>
</tr>
<tr>
<td>48 VDC</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>60 VDC</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>65 VDC</td>
<td></td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>125 VDC</td>
<td>250 VDC</td>
<td>5 5</td>
<td>5</td>
</tr>
<tr>
<td>500 VDC</td>
<td></td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>IEC 60947-2</td>
<td>240 V</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>(50/60 Hz AC)</td>
<td>415 V</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>DC ratings (IEC)</td>
<td>600 Vac</td>
<td>20</td>
<td>20</td>
</tr>
</tbody>
</table>

### Accessories

- Shunt Trip
- Undervoltage Trip
- Auxiliary Switches
- Handle Operators
- Mechanical Interlocks
- Handle Padlock Attachment

### Enclosures

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Height mm (in.)</th>
<th>Width mm (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Box lug 103 (4.2X)</td>
<td>Ring tongue terminal: 127 (5.0X)</td>
</tr>
<tr>
<td></td>
<td>18 (0.71)</td>
<td>36 (1.42)</td>
</tr>
<tr>
<td>DF10</td>
<td>81 (3.19)</td>
<td>76 (3.00)</td>
</tr>
<tr>
<td>DF14</td>
<td>81 (3.19)</td>
<td>76 (3.00)</td>
</tr>
<tr>
<td>DF22</td>
<td>81 (3.19)</td>
<td>76 (3.00)</td>
</tr>
</tbody>
</table>

### Interrupting Ratings

- **Multi 9**
  - C608P and C608PR - UL489
  - C60SP - UL1077
  - UL 1077 C60H-DC

### AC electrical ratings:

- **For Cat. Nos. US10 and CMS10:**
  - 30 A, 800 V ac max, 200 kA current withstand.
  - DC electrical ratings:
    - 30 A, 1000 V dc max, 100 kA current withstand.

### DC electrical ratings:

- **For Cat. Nos. US10 and CMS10:**
  - 30 A, 1000 V dc max, 100 kA current withstand.

### IEC 60947-2

- **For Cat. Nos. US10 and CMS10:**
  - 50 amperes
  - CMS14 and US14 is rated for 50 amperes
  - CMS22 and US22 is rated for 125 amperes

These devices are rated 800 Volts AC and 1000 Volts DC, maximum:

- CMS14 and US14 is rated for 50 amperes
- CMS22 and US22 is rated for 125 amperes

In addition to the PowerPact molded case circuit breakers offer, IEC 947-2/UL 489 miniature circuit breakers and UL 248 fuses should be used to protect loads like power transformers, the power supply, appliances, and heating and lighting.

Multi 9™ C60 is the first extensive range of DIN rail-mounted miniature circuit breakers to be UL 489 listed for branch circuit protection.

Other Multi 9 devices are UL recognized as supplementary protectors suitable for applications where branch circuit protection is already provided or not required. Multi 9 C60 products also have IEC ratings. Other IEC-rated products complement the UL line up to 125 A at up to 440 VAC.
There are several solutions for individual circuit motor loads (whether direct online or drive starters). The most efficient are IEC947-4-1/UL508 type-E or type-F self-protected combination motor controllers. These combinations are built on multistandard components. They are demonstrably the most compact, the safest, and the most reliable solution for protecting and controlling motors. They can be implemented on direct online (DOL) starters and variable speed drive starters and do not require any upstream branch circuit protection device.

TeSys GV2P motor starters – TeSys LC1D contactors
TeSys GV2P with GV2GH7 line spacer for one motor starter or with GV1G09 terminal block and GV2G busbars for several motor starters — File UL E164871.

Maximum horsepower ratings

<table>
<thead>
<tr>
<th>Single-Phase 120 V</th>
<th>240 V</th>
<th>Three-Phase 208 V</th>
<th>240 V</th>
<th>480 V</th>
<th>600 V</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>0.5</td>
<td>1.0</td>
<td>0.75</td>
<td>1.5</td>
<td>3.0</td>
<td>5.0</td>
</tr>
<tr>
<td>0.25</td>
<td>0.5</td>
<td>1.5</td>
<td>3.5</td>
<td>7.5</td>
<td>10.0</td>
</tr>
<tr>
<td>0.5</td>
<td>2.0</td>
<td>0.5</td>
<td>1.5</td>
<td>10.0</td>
<td>15.0</td>
</tr>
<tr>
<td>0.5</td>
<td>2.0</td>
<td>0.5</td>
<td>1.5</td>
<td>20.0</td>
<td>30.0</td>
</tr>
</tbody>
</table>

Manual self-protected starter

| GV2P01 | 0.10 - 0.16 |
| GV2P02 | 0.16 - 0.25 |
| GV2P03 | 0.25 - 0.40 |
| GV2P04 | 0.40 - 0.63 |

Overload trip range (A)

Type of contactor required

| LC1D09 | 480V/277V |
| LC1D12 | 600V/347V |

TeSys GV3P UL 508 motor starters – TeSys LC1D contactors
TeSys GV3P with GV3G66 line spacer and GVAM11 short circuit signaling contact for one motor starter — File UL E164871.

Standard motor ratings

<table>
<thead>
<tr>
<th>Single-Phase 120 V</th>
<th>240 V</th>
<th>Three-Phase 208 V</th>
<th>240 V</th>
<th>480 V</th>
<th>600 V</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5</td>
<td>1.5</td>
<td>3.0</td>
<td>5.0</td>
<td>7.5</td>
<td>10.0</td>
</tr>
<tr>
<td>0.75</td>
<td>2.0</td>
<td>0.5</td>
<td>1.5</td>
<td>10.0</td>
<td>15.0</td>
</tr>
<tr>
<td>1.5</td>
<td>3.0</td>
<td>0.5</td>
<td>1.5</td>
<td>20.0</td>
<td>30.0</td>
</tr>
<tr>
<td>2.0</td>
<td>5.0</td>
<td>0.5</td>
<td>1.5</td>
<td>25.0</td>
<td>40.0</td>
</tr>
<tr>
<td>3.0</td>
<td>7.5</td>
<td>0.5</td>
<td>1.5</td>
<td>30.0</td>
<td>45.0</td>
</tr>
<tr>
<td>5.0</td>
<td>10.0</td>
<td>0.5</td>
<td>1.5</td>
<td>40.0</td>
<td>60.0</td>
</tr>
</tbody>
</table>

Manual self-protected starter

| GV3P13 | 9 - 13 |
| GV3P18 | 12 - 18 |
| GV3P20 | 15 - 20 |
| GV3P21 | 17 - 23 |
| GV3P22 | 20 - 25 |

Overload trip range (A)

Type of contactor required

| LC1D18, 025, 032, 040A, 050A or 065A | 65 |
| LC1D25, 032, 040A, 050A or 065A | 65 |
| LC1D32, 040A, 050A or 065A | 65 |
| LC1D40A, 050A or 065A | 65 |

Note: GV2P, GV3P are only UL 508 certified, not viewed as circuit breakers by UL.
Power rating  Drive model  Line reactor  Type E combination motor controller

<table>
<thead>
<tr>
<th>(kW)</th>
<th>(HP)</th>
<th>(mH)</th>
<th>Model</th>
<th>Rating at 500V</th>
<th>SCCR</th>
</tr>
</thead>
<tbody>
<tr>
<td>(A)</td>
<td>(A)</td>
<td></td>
<td></td>
<td>(A)</td>
<td>(A)</td>
</tr>
</tbody>
</table>

208/230V-Single-Phase

0.18  1/4  ATV320U02M2x  2.5  GV2P08  4  65  Under 240Vac
0.37  1/2  ATV320U04M2x  2.5  GV2P10  6.3  65
0.55  3/4  ATV320U06M2x  2.5  GV3P14  10  65
0.75  1    ATV320U07M2x  2.5  GV3P13  12  65
1.1   1-1/2 ATV320U11M2x  1  GV3P18  18  65
1.5   2    ATV320U15M2x  1  GV3P25  25  65
2.2   3    ATV320U22M2x  1  GV3P25  25  65
4     5    ATV320U30N4x  0.4  GV3P50  50  65
5.5   8    ATV320D11M2x  0.3  GV3P65  65  65
7.5   10   ATV320D19M2x  0.2  HLM3090  90  65

480V-Three-Phase

0.37  1/2  ATV320U04N4x  12  GV2P07  2.5  65  Under 480Y/277Vac
0.55  3/4  ATV320U06N4x  12  GV2P07  2.5  65
0.75  1    ATV320U07N4x  12  GV2P07  2.5  65
1.1   1-1/2 ATV320U11N4x  8.8  GV2P06  4  65
1.5   2    ATV320U15N4x  8.8  GV3P10  6.3  65
2.2   3    ATV320U22N4x  5  GV3P14  10  65
3     4    ATV320U30N4x  3  GV3P14  10  65
4     5    ATV320U40N4x  3  GV3P13  12  66
5.5   8    ATV320U55N4x  2.5  GV3P18  18  65
7.5   10   ATV320U75N4x  1.5  GV3P25  25  65
11    15   ATV320D11N4B  1.2  GV3P32  32  66
15    20   ATV320D19N4B  0.8  GV3P40  40  65

1: Large spacing adapter GV2GH7 to be added to GV2, GV3GH6 to GV3
2: replace x by B or C
3: replace x by the right short circuit current rating
For 208/230V range use x=D for 25kA, G for 65A, J for 65kA, L for 65kA.

Motor load protection and control

A proven, compact, and cost-effective, multistandard variable-speed drive starter solution that complies with UL508C and UL508A is to combine a TeSys GV IEC 947-2/UL508 type-E manual self-protected combination motor controller with Altivar™ drives.

Leading edge enclosures

Spacial steel enclosures, Thalassa polyester enclosures, Climasyx™ thermal management cabinets … For many years, Schneider Electric has sold a wide range of industrial enclosures through two major brands: Himel and Sarel. Today, by integrating our brands, services, production, and our customer assistance services together under the Schneider Electric banner, we can offer OEMs unbeatable partnership opportunities.

The highest quality is our mission

- **Service quality:** Our total quality approach covers every stage of product design, from manufacturing and ordering through delivery. We embrace our customers’ needs as the focal point of all our processes, from new product development to product delivery from our logistics centres.
- **Customization quality:** Extensive experience driving projects to a successful completion, combined with high technology tools (3D laser machines, special laser marking, etc.) enable us to obtain high quality results when customizing and adapting enclosures to your requirements.

Quality according to International Standards: UL, BV, DNV, GL, GOST, etc.

Global customer support

Ready to serve you wherever you are:
- Local after-sales service at any location worldwide
- Reduced worldwide after-sales costs
- Improved risk management across export activities
- Time saving

Co-engineering and customization

No matter the integration or developmental constraints you face when optimizing equipment to suit your machine production, we can provide professional services personalized to your needs and budget. Our customized equipment and integrated solutions allow you to upgrade your production or logistics.
A Schneider Electric TVD solution

Multistandard offer for OEMs, like all Schneider Electric solutions, includes tested, validated, and documented architectures, products, and services.

- **Tested**
  All possible configurations have been tested and results approved by certified third-party labs.

- **Validated**
  All solutions live up to Schneider Electric global solutions values of safe, reliable, efficient, productive, and green as proven by testing on platforms that reproduce various customer environments over the entire solution life cycle. The life cycle management of each component is guaranteed.

- **Documented**
  In addition to Schneider Electric customer support, customers receive a complete set of user guides, training, and toolboxes to ensure they achieve all of the benefits they expect from the solution.

Your challenges …

- Reduce time-to-market
- Improve performance
- Develop your business
… while reducing your costs.

Our solution

Schneider Electric multistandard offer allows you to deploy one machine design worldwide. It helps you improve your logistic process while meeting standards and customs regulations.

It means having the solutions for your machine design and manufacturing near you and spare parts, services, and support near your customers, worldwide.

Make the most of your energy™

Schneider Electric Industries SAS

Head Office
35 rue Joseph Monier
92506 Rueil-Malmaison Cedex- France
Tel.: +33 (0)1 41 20 70 00
www.schneider-electric.com