

# ANNEX

## Getting Started with ATV312



S1B1632802

### Short-Circuit Current Ratings (SCCR) and branch circuit protection

The combinations in the tables have been tested per UL508C (Reference UL file E116875). These ratings are in addition to ratings on the nameplate of the product. The values for the overcurrent protection devices are the maximum allowable amp size. Smaller amp ratings may be used.

Integral solid state short circuit protection does not provide branch circuit protection. Branch circuit protection must be provided in accordance with the National Electrical Code and any additional local codes.

The devices are not provided with thermal protection of the motor. A sensing of motor overtemperature is required to be provided by the end user.

75°C(167°F) copper conductor with the AWG wire size shown on nameplate for all sizes.

Suitable for use on a circuit capable of delivering not more than \_\_X\_\_ rms symmetrical kiloAmperes, \_\_Y\_\_ Volts maximum, when protected by \_\_Z1\_\_ with a maximum rating of \_\_Z2\_\_.

| ATV312 Drive                     |      |              |                        |                                   |                            |                        | Short-Circuit Current Ratings <sup>2</sup> |                                |                                           |                            |                                 |              |                                 |                                  |
|----------------------------------|------|--------------|------------------------|-----------------------------------|----------------------------|------------------------|--------------------------------------------|--------------------------------|-------------------------------------------|----------------------------|---------------------------------|--------------|---------------------------------|----------------------------------|
| Input Voltage<br>60 Hz<br>Y      | (kW) | (HP)         | Reference <sup>7</sup> | Input Rating <sup>1</sup><br>(kA) | Minimum Inductance<br>(mH) | Line Reactor Reference | With Circuit Breaker                       |                                | With GV●P                                 |                            |                                 |              | With Fuses                      |                                  |
|                                  |      |              |                        |                                   |                            |                        | PowerPact<br>Z1, Z2                        | SCCR<br>(kA) <sup>4</sup><br>X | GV●P Type E <sup>4</sup> ,<br>5<br>Z1, Z2 | GV●P Voltage rating<br>(V) | GV●P Power<br>(HP) <sup>8</sup> | SCCR<br>(kA) | Fuse (A) <sup>6</sup><br>Z1, Z2 | SCCR<br>(kA) <sup>3,4</sup><br>X |
| Three-phase without line reactor |      |              |                        |                                   |                            |                        |                                            |                                |                                           |                            |                                 |              |                                 |                                  |
| 208/230V                         | 0.18 | 0.25         | ATV312H018M3           | 5                                 | -                          | -                      | HxL36015                                   | 5                              | -                                         | -                          | -                               | -            | 3                               | 5                                |
|                                  | 0.37 | 0.5          | ATV312H037M3           | 5                                 | -                          | -                      | HxL36015                                   | 5                              | -                                         | -                          | -                               | -            | 6                               | 5                                |
|                                  | 0.55 | 0.75         | ATV312H055M3           | 5                                 | -                          | -                      | HxL36015                                   | 5                              | -                                         | -                          | -                               | -            | 10                              | 5                                |
|                                  | 0.75 | 1            | ATV312H075M3           | 5                                 | -                          | -                      | HxL36015                                   | 5                              | -                                         | -                          | -                               | -            | 10                              | 5                                |
|                                  | 1.1  | 1.5          | ATV312HU11M3           | 5                                 | -                          | -                      | HxL36015                                   | 5                              | -                                         | -                          | -                               | -            | 15                              | 5                                |
|                                  | 1.5  | 2            | ATV312HU15M3           | 5                                 | -                          | -                      | HxL36015                                   | 5                              | -                                         | -                          | -                               | -            | 15                              | 5                                |
|                                  | 2.2  | 3            | ATV312HU22M3           | 5                                 | -                          | -                      | HxL36020                                   | 5                              | -                                         | -                          | -                               | -            | 20                              | 5                                |
|                                  | 3    | -            | ATV312HU30M3           | 5                                 | -                          | -                      | HxL36020                                   | 5                              | -                                         | -                          | -                               | -            | 25                              | 5                                |
|                                  | 4    | 5            | ATV312HU40M3           | 5                                 | -                          | -                      | HxL36030                                   | 5                              | -                                         | -                          | -                               | -            | 35                              | 5                                |
|                                  | 5.5  | 7.5          | ATV312HU55M3           | 22                                | -                          | -                      | HxL36040                                   | 22                             | -                                         | -                          | -                               | -            | 50                              | 22                               |
|                                  | 7.5  | 10           | ATV312HU75M3           | 22                                | -                          | -                      | HxL36060                                   | 22                             | -                                         | -                          | -                               | -            | 60                              | 22                               |
|                                  | 11   | 15           | ATV312HD11M3           | 22                                | -                          | -                      | HxL36070                                   | 22                             | -                                         | -                          | -                               | -            | 80                              | 22                               |
| 15                               | 20   | ATV312HD15M3 | 22                     | -                                 | -                          | HxL36090               | 22                                         | -                              | -                                         | -                          | -                               | 110          | 22                              |                                  |
| 400/480V                         | 0.37 | 0.5          | ATV312H037N4           | 5                                 | -                          | -                      | HxL36015                                   | 5                              | -                                         | -                          | -                               | -            | 3                               | 5                                |
|                                  | 0.55 | 0.75         | ATV312H055N4           | 5                                 | -                          | -                      | HxL36015                                   | 5                              | -                                         | -                          | -                               | -            | 6                               | 5                                |
|                                  | 0.75 | 1            | ATV312H075N4           | 5                                 | -                          | -                      | HxL36015                                   | 5                              | -                                         | -                          | -                               | -            | 6                               | 5                                |
|                                  | 1.1  | 1.5          | ATV312HU11N4           | 5                                 | -                          | -                      | HxL36015                                   | 5                              | -                                         | -                          | -                               | -            | 10                              | 5                                |
|                                  | 1.5  | 2            | ATV312HU15N4           | 5                                 | -                          | -                      | HxL36015                                   | 5                              | -                                         | -                          | -                               | -            | 10                              | 5                                |
|                                  | 2.2  | 3            | ATV312HU22N4           | 5                                 | -                          | -                      | HxL36015                                   | 5                              | -                                         | -                          | -                               | -            | 15                              | 5                                |
|                                  | 3    | -            | ATV312HU30N4           | 5                                 | -                          | -                      | HxL36015                                   | 5                              | -                                         | -                          | -                               | -            | 15                              | 5                                |
|                                  | 4    | 5            | ATV312HU40N4           | 5                                 | -                          | -                      | HxL36015                                   | 5                              | -                                         | -                          | -                               | -            | 20                              | 5                                |
|                                  | 5.5  | 7.5          | ATV312HU55N4           | 22                                | -                          | -                      | HxL36020                                   | 22                             | -                                         | -                          | -                               | -            | 30                              | 22                               |
|                                  | 7.5  | 10           | ATV312HU75N4           | 22                                | -                          | -                      | HxL36030                                   | 22                             | -                                         | -                          | -                               | -            | 35                              | 22                               |
|                                  | 11   | 15           | ATV312HD11N4           | 22                                | -                          | -                      | HxL36035                                   | 22                             | -                                         | -                          | -                               | -            | 50                              | 22                               |
|                                  | 15   | 20           | ATV312HD15N4           | 22                                | -                          | -                      | HxL36050                                   | 22                             | -                                         | -                          | -                               | -            | 70                              | 22                               |
| Three-phase with line reactor    |      |              |                        |                                   |                            |                        |                                            |                                |                                           |                            |                                 |              |                                 |                                  |
| 208/230V                         | 0.18 | 0.25         | ATV312H018M3           | 5                                 | 3                          | RL-00401               | HxL36015                                   | 65                             | -                                         | -                          | -                               | 65           | 3                               | 22                               |
|                                  | 0.37 | 0.5          | ATV312H037M3           | 5                                 | 3                          | RL-00401               | HxL36015                                   | 65                             | -                                         | -                          | -                               | 65           | 6                               | 22                               |
|                                  | 0.55 | 0.75         | ATV312H055M3           | 5                                 | 3                          | RL-00401               | HxL36015                                   | 65                             | -                                         | -                          | -                               | 65           | 10                              | 22                               |
|                                  | 0.75 | 1            | ATV312H075M3           | 5                                 | 3                          | RL-00401               | HxL36015                                   | 65                             | -                                         | -                          | -                               | 65           | 10                              | 22                               |
|                                  | 1.1  | 1.5          | ATV312HU11M3           | 5                                 | 1.5                        | RL-00801               | HxL36015                                   | 65                             | GV2P14                                    | 240                        | 3                               | 65           | 15                              | 22                               |
|                                  | 1.5  | 2            | ATV312HU15M3           | 5                                 | 1.5                        | RL-00801               | HxL36015                                   | 65                             | GV2P14                                    | 240                        | 3                               | 65           | 15                              | 22                               |
|                                  | 2.2  | 3            | ATV312HU22M3           | 5                                 | 1.25                       | RL-01201               | HxL36020                                   | 65                             | GV3P18 / 13                               | 240                        | 5/3                             | 65           | 20                              | 22                               |
|                                  | 3    | -            | ATV312HU30M3           | 5                                 | 1.25                       | RL-01801               | HxL36020                                   | 65                             | GV3P18                                    | 240                        | 5                               | 65           | 25                              | 22                               |
|                                  | 4    | 5            | ATV312HU40M3           | 5                                 | 1.25                       | RL-01801               | HxL36030                                   | 65                             | GV3P25                                    | 240                        | 7.5                             | 65           | 35                              | 22                               |
|                                  | 5.5  | 7.5          | ATV312HU55M3           | 22                                | 0.5                        | RL-02501               | HxL36040                                   | 65                             | GV3P40/ 32                                | 240                        | 10/7.5                          | 65           | 50                              | 22                               |
|                                  | 7.5  | 10           | ATV312HU75M3           | 22                                | 0.4                        | RL-03501               | HxL36060                                   | 65                             | GV3P50                                    | 240                        | 10                              | 65           | 60                              | 22                               |
|                                  | 11   | 15           | ATV312HD11M3           | 22                                | 0.3                        | RL-04501               | HxL36070                                   | 65                             | GV3P65                                    | 240                        | 15                              | 65           | 80                              | 22                               |
|                                  | 15   | 20           | ATV312HD15M3           | 22                                | 0.2                        | RL-08001               | HxL36090                                   | 65                             | -                                         | -                          | -                               | -            | 110                             | 22                               |

Footnotes are on page 3.

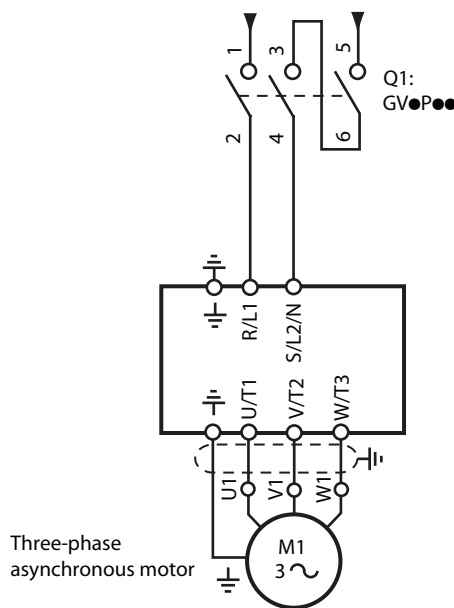
| ATV312 Drive                       |      |              |                        |                                   |                            |                        | Short-Circuit Current Ratings <sup>2</sup> |                                    |                                              |                         |                              |           |                                        |                                      |
|------------------------------------|------|--------------|------------------------|-----------------------------------|----------------------------|------------------------|--------------------------------------------|------------------------------------|----------------------------------------------|-------------------------|------------------------------|-----------|----------------------------------------|--------------------------------------|
| Input Voltage<br>60 Hz<br><b>Y</b> | (kW) | (HP)         | Reference <sup>7</sup> | Input Rating <sup>1</sup><br>(kA) | Minimun Inductance<br>(mH) | Line Reactor Reference | With Circuit Breaker                       |                                    | With GV●P                                    |                         |                              |           | With Fuses                             |                                      |
|                                    |      |              |                        |                                   |                            |                        | PowerPact <b>Z1, Z2</b>                    | SCCR (kA) <sup>4</sup><br><b>X</b> | GV●P Type E <sup>4, 5</sup><br><b>Z1, Z2</b> | GV●P Voltage rating (V) | GV●P Power (HP) <sup>8</sup> | SCCR (kA) | Fuse (A) <sup>6</sup><br><b>Z1, Z2</b> | SCCR (kA) <sup>3,4</sup><br><b>X</b> |
| Three-phase with line reactor      |      |              |                        |                                   |                            |                        |                                            |                                    |                                              |                         |                              |           |                                        |                                      |
| 400/480V                           | 0.37 | 0.5          | ATV312H037N4           | 5                                 | 12                         | RL00201                | HxL36015                                   | 65                                 | GV2P07                                       | 480Y/277                | 1                            | 65        | 3                                      | 100                                  |
|                                    | 0.55 | 0.75         | ATV312H055N4           | 5                                 | 12                         | RL00201                | HxL36015                                   | 65                                 | GV2P07                                       | 480Y/277                | 1                            | 65        | 6                                      | 100                                  |
|                                    | 0.75 | 1            | ATV312H075N4           | 5                                 | 12                         | RL00201                | HxL36015                                   | 65                                 | GV2P08                                       | 480Y/277                | 2                            | 65        | 6                                      | 100                                  |
|                                    | 1.1  | 1.5          | ATV312HU11N4           | 5                                 | 6.5                        | RL00402                | HxL36015                                   | 65                                 | GV2P08                                       | 480Y/277                | 2                            | 65        | 10                                     | 100                                  |
|                                    | 1.5  | 2            | ATV312HU15N4           | 5                                 | 6.5                        | RL00402                | HxL36015                                   | 65                                 | GV2P10                                       | 480Y/277                | 3                            | 65        | 10                                     | 100                                  |
|                                    | 2.2  | 3            | ATV312HU22N4           | 5                                 | 5                          | RL00803                | HxL36015                                   | 65                                 | GV2P14                                       | 480Y/277                | 5                            | 65        | 15                                     | 100                                  |
|                                    | 3    | -            | ATV312HU30N4           | 5                                 | 3                          | RL00802                | HxL36015                                   | 65                                 | GV2P14                                       | 480Y/277                | 5                            | 65        | 15                                     | 100                                  |
|                                    | 4    | 5            | ATV312HU40N4           | 5                                 | 3                          | RL00802                | HxL36015                                   | 65                                 | GV3P13                                       | 480Y/277                | 7.5                          | 65        | 20                                     | 100                                  |
|                                    | 5.5  | 7.5          | ATV312HU55N4           | 22                                | 2.5                        | RL01202                | HxL36020                                   | 65                                 | GV3P18                                       | 480Y/277                | 7.5                          | 65        | 30                                     | 100                                  |
|                                    | 7.5  | 10           | ATV312HU75N4           | 22                                | 1.5                        | RL01802                | HxL36030                                   | 65                                 | GV3P25                                       | 480Y/277                | 15                           | 65        | 35                                     | 100                                  |
|                                    | 11   | 15           | ATV312HD11N4           | 22                                | 1.2                        | RL02502                | HxL36035                                   | 65                                 | GV3P32                                       | 480Y/277                | 20                           | 65        | 50                                     | 100                                  |
| 15                                 | 20   | ATV312HD15N4 | 22                     | 0.8                               | RL03502                    | HxL36050               | 65                                         | GV3P40                             | 480Y/277                                     | 25                      | 65                           | 70        | 100                                    |                                      |
| 575/600V                           | 0.75 | 1            | ATV312H075S6           | 5                                 | 20                         | RL-00202               | HxL36015                                   | 22                                 | -                                            | -                       | -                            | -         | 6                                      | 22                                   |
|                                    | 1.5  | 2            | ATV312HU15S6           | 5                                 | 9                          | RL-00403               | HxL36015                                   | 22                                 | -                                            | -                       | -                            | -         | 6                                      | 22                                   |
|                                    | 2.2  | 3            | ATV312HU22S6           | 5                                 | 6.5                        | RL-00402               | HxL36015                                   | 22                                 | -                                            | -                       | -                            | -         | 10                                     | 22                                   |
|                                    | 4    | 5            | ATV312HU40S6           | 5                                 | 5                          | RL-00803               | HxL36015                                   | 22                                 | -                                            | -                       | -                            | -         | 15                                     | 22                                   |
|                                    | 5.5  | 7.5          | ATV312HU55S6           | 22                                | 2.5                        | RL-01202               | HxL36025                                   | 22                                 | -                                            | -                       | -                            | -         | 20                                     | 22                                   |
|                                    | 7.5  | 10           | ATV312HU75S6           | 22                                | 2.5                        | RL-01202               | HxL36030                                   | 22                                 | -                                            | -                       | -                            | -         | 25                                     | 22                                   |
|                                    | 11   | 15           | ATV312HD11S6           | 22                                | 1.5                        | RL-01802               | HxL36045                                   | 22                                 | -                                            | -                       | -                            | -         | 35                                     | 22                                   |
| 15                                 | 20   | ATV312HD15S6 | 22                     | 1.2                               | RL-02502                   | HxL36060               | 22                                         | -                                  | -                                            | -                       | -                            | 45        | 22                                     |                                      |
| Single-phase without line reactor  |      |              |                        |                                   |                            |                        |                                            |                                    |                                              |                         |                              |           |                                        |                                      |
| 208/230V                           | 0.18 | 0.25         | ATV312H018M2           | 1                                 | -                          | -                      | -                                          | -                                  | -                                            | -                       | -                            | -         | 6                                      | 1                                    |
|                                    | 0.37 | 0.5          | ATV312H037M2           | 1                                 | -                          | -                      | -                                          | -                                  | -                                            | -                       | -                            | -         | 10                                     | 1                                    |
|                                    | 0.55 | 0.75         | ATV312H055M2           | 1                                 | -                          | -                      | -                                          | -                                  | -                                            | -                       | -                            | -         | 10                                     | 1                                    |
|                                    | 0.75 | 1            | ATV312H075M2           | 1                                 | -                          | -                      | -                                          | -                                  | -                                            | -                       | -                            | -         | 15                                     | 1                                    |
|                                    | 1.1  | 1.5          | ATV312HU11M2           | 1                                 | -                          | -                      | -                                          | -                                  | -                                            | -                       | -                            | -         | 20                                     | 1                                    |
|                                    | 1.5  | 2            | ATV312HU15M2           | 1                                 | -                          | -                      | -                                          | -                                  | -                                            | -                       | -                            | -         | 20                                     | 1                                    |
|                                    | 2.2  | 3            | ATV312HU22M2           | 1                                 | -                          | -                      | -                                          | -                                  | -                                            | -                       | -                            | -         | 30                                     | 1                                    |
|                                    | 4    | 5            | ATV312HU75M3           | 2                                 | -                          | -                      | HxL36060                                   | 2                                  | -                                            | -                       | -                            | -         | 60                                     | 2                                    |
|                                    | 5.5  | 7.5          | ATV312HD11M3           | 2                                 | -                          | -                      | HxL36070                                   | 2                                  | -                                            | -                       | -                            | -         | 80                                     | 2                                    |
| 7.5                                | 10   | ATV312HD15M3 | 2                      | -                                 | -                          | HxL36090               | 2                                          | -                                  | -                                            | -                       | -                            | 110       | 2                                      |                                      |
| 400/480V                           | 0.37 | 0.5          | ATV312H075N4           | 5                                 | -                          | -                      | HxL36015                                   | 5                                  | -                                            | -                       | -                            | -         | 6                                      | 5                                    |
|                                    | 0.55 | 0.75         | ATV312HU11N4           | 5                                 | -                          | -                      | HxL36015                                   | 5                                  | -                                            | -                       | -                            | -         | 10                                     | 5                                    |
|                                    | 0.75 | 1            | ATV312HU15N4           | 5                                 | -                          | -                      | HxL36015                                   | 5                                  | -                                            | -                       | -                            | -         | 10                                     | 5                                    |
|                                    | 1.1  | 1.5          | ATV312HU22N4           | 5                                 | -                          | -                      | HxL36015                                   | 5                                  | -                                            | -                       | -                            | -         | 15                                     | 5                                    |
|                                    | 1.5  | 2            | ATV312HU30N4           | 5                                 | -                          | -                      | HxL36015                                   | 5                                  | -                                            | -                       | -                            | -         | 15                                     | 5                                    |
|                                    | 2.2  | 3            | ATV312HU40N4           | 5                                 | -                          | -                      | HxL36015                                   | 5                                  | -                                            | -                       | -                            | -         | 20                                     | 5                                    |
|                                    | 2.2  | 3            | ATV312HU55N4           | 22                                | -                          | -                      | HxL36020                                   | 22                                 | -                                            | -                       | -                            | -         | 30                                     | 22                                   |
|                                    | 4    | 5            | ATV312HU75N4           | 22                                | -                          | -                      | HxL36030                                   | 22                                 | -                                            | -                       | -                            | -         | 35                                     | 22                                   |
|                                    | 5.5  | 7.5          | ATV312HD11N4           | 22                                | -                          | -                      | HxL36035                                   | 22                                 | -                                            | -                       | -                            | -         | 50                                     | 22                                   |
| 7.5                                | 10   | ATV312HD15N4 | 22                     | -                                 | -                          | HxL36050               | 22                                         | -                                  | -                                            | -                       | -                            | 70        | 22                                     |                                      |
| Single-phase with line reactor     |      |              |                        |                                   |                            |                        |                                            |                                    |                                              |                         |                              |           |                                        |                                      |
| 208/230V                           | 4    | 5            | ATV312HU75M3           | 22                                | 0.75                       | RL-03502               | HxL36060                                   | 65                                 | -                                            | -                       | -                            | -         | 60                                     | 22                                   |
|                                    | 5.5  | 7.5          | ATV312HD11M3           | 22                                | 0.375                      | RL-05502               | HxL36070                                   | 65                                 | -                                            | -                       | -                            | -         | 80                                     | 22                                   |
|                                    | 7.5  | 10           | ATV312HD15M3           | 22                                | 0.278                      | RL-08002               | HxL36090                                   | 65                                 | -                                            | -                       | -                            | -         | 110                                    | 22                                   |
| 400/480V                           | 0.37 | 0.5          | ATV312H075N4           | 5                                 | 5.79                       | RL-00402               | HxL36015                                   | 65                                 | -                                            | -                       | -                            | -         | 6                                      | 22                                   |
|                                    | 0.55 | 0.75         | ATV312HU11N4           | 5                                 | 4.27                       | RL-00402               | HxL36015                                   | 65                                 | -                                            | -                       | -                            | -         | 10                                     | 22                                   |
|                                    | 0.75 | 1            | ATV312HU15N4           | 5                                 | 4.27                       | RL-00803               | HxL36015                                   | 65                                 | -                                            | -                       | -                            | -         | 10                                     | 22                                   |
|                                    | 1.1  | 1.5          | ATV312HU22N4           | 5                                 | 2.77                       | RL-00802               | HxL36015                                   | 65                                 | -                                            | -                       | -                            | -         | 15                                     | 22                                   |
|                                    | 1.5  | 2            | ATV312HU30N4           | 5                                 | 2.77                       | RL-00802               | HxL36015                                   | 65                                 | -                                            | -                       | -                            | -         | 15                                     | 22                                   |
|                                    | 2.2  | 3            | ATV312HU40N4           | 5                                 | 1.68                       | RL-01202               | HxL36015                                   | 65                                 | -                                            | -                       | -                            | -         | 20                                     | 22                                   |
|                                    | 2.2  | 3            | ATV312HU55N4           | 22                                | 1.29                       | RL-01802               | HxL36020                                   | 65                                 | -                                            | -                       | -                            | -         | 30                                     | 22                                   |
|                                    | 4    | 5            | ATV312HU75N4           | 22                                | 0.912                      | RL-02502               | HxL36030                                   | 65                                 | -                                            | -                       | -                            | -         | 35                                     | 22                                   |
|                                    | 5.5  | 7.5          | ATV312HD11N4           | 22                                | 0.694                      | RL-03502               | HxL36035                                   | 65                                 | -                                            | -                       | -                            | -         | 50                                     | 22                                   |
| 7.5                                | 10   | ATV312HD15N4 | 22                     | 0.569                             | RL-04502                   | HxL36050               | 65                                         | -                                  | -                                            | -                       | -                            | 70        | 22                                     |                                      |

Footnotes are on page 3.

1. This column shows the maximum prospective short-circuit current value for which these Altivar 312 drives can be installed on without adding impedance. Electrical distribution systems with a higher prospective short-circuit current will cause higher input currents in the front end of the drive.  
Add the inductance referred to in the table at the input of the drive if installing the drive on a system with higher prospective short-circuit current. A 3% (minimum) input line reactor or equivalent inductance is required for the 500/600 Vac Altivar 312 drives and provides the listed value with the listed fuse protection.
2. An output short-circuit test was performed for 100 kA. In addition to this test, a breakdown of components test was performed by shorting components internal to the drive.  
These ratings allow proper coordination of short-circuit protection.
3. Ratings also apply to ATV312 Type 1 product, i.e.: an ATV312 fitted with a conduit box.
4. Ratings apply to an ATV312 mounted in a non-ventilated Type 1, 3R, 4(X) or 12 rated enclosure. Minimum enclosure volume is 3.375 times the drive volume.
5. 480Y/277V ratings are for Wye connected electrical distribution systems only. GV2P●● self protected manual combination starter must be used with GV2GH7 insulating barrier to meet UL 508 Type E rating. GV3P●● must be used with GV3G66 and GVAM11 in order to meet UL508 Type E rating.
6. Fuse type: Class J, can be fast acting or time delay, or Class CC.
7. Available also for **B** products. Example: ATV312H018M3**B**
8. UL508C Par. 57.1 requires publishing the standard Type E combination motor controller power rating since this is a basic identification marking of the Type E devices. However, when applied as an input overcurrent protective device for a drive, the rated current of the Type E combination motor controller, not the rated power, is the key parameter for dimensioning (reference UL508C paragraph 45.8.11 and 45.8.12).  
Schneider Electric GV●P Type E combination motor controllers are adjustable, their current range is shown on the adjustment dial and their selection is based on the input current and not power rating of the drive.

## Wiring three-phase ATV312 on single-phase power supply

When using GV2P or GV3P manual self-protected combination starters for single-phase input applications, wire the drive as illustrated :



Notes: