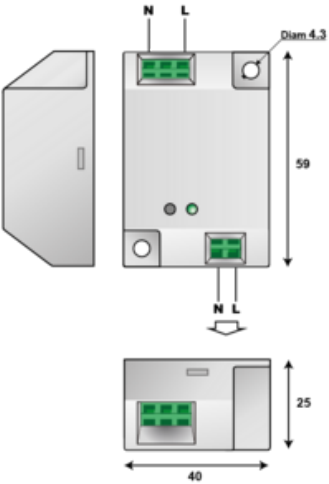
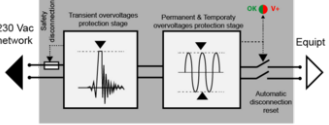


## MLPVM2-230L-5A



- › Protection against all types of overvoltages
- › For Class II Led lighting
- › 230 V single-phase network / 5 A
- › Function 'Surge voltage protection' (SPD)
- › Surges due to lighting or switching
- › Function 'Permanent or temporary overvoltage protection' (POP)



|   | <table> <tr> <th colspan="2">Electrical Characteristics</th></tr> <tr> <td>Network</td><td>230 V single-phase</td></tr> <tr> <td>AC system</td><td>TT-TN</td></tr> <tr> <td>Max. AC operating voltage</td><td>Uc 255 Vac</td></tr> <tr> <td>Max. load current @25°C</td><td>IL 5 A</td></tr> <tr> <td>Residual Current Leakage current to Ground</td><td>Ipe None</td></tr> <tr> <td>Nominal discharge current 15 x 8/20 µs impulses</td><td>In 5 kA</td></tr> <tr> <td>Max. discharge current max. withstand @ 8/20 µs by pole</td><td>Imax 10 kA</td></tr> <tr> <td>Withstand on Combination waveform IEC 61643-11 Class III test: 1.2/50µs - 8/20µs</td><td>Uoc 10 kV</td></tr> <tr> <td>Withstand on overvoltages IEEE C62.41.1</td><td>10 kV / 10 kA</td></tr> <tr> <td>Protection mode(s)</td><td>L/N</td></tr> <tr> <td>Protection level L/N @ In (8/20µs)</td><td>Up L/N 1.5 kV</td></tr> <tr> <td>Admissible short-circuit current</td><td>Iscrr 10 000 A</td></tr> </table> | Electrical Characteristics |  | Network               | 230 V single-phase                               | AC system     | TT-TN    | Max. AC operating voltage | Uc 255 Vac             | Max. load current @25°C | IL 5 A       | Residual Current Leakage current to Ground | Ipe None | Nominal discharge current 15 x 8/20 µs impulses | In 5 kA  | Max. discharge current max. withstand @ 8/20 µs by pole | Imax 10 kA                        | Withstand on Combination waveform IEC 61643-11 Class III test: 1.2/50µs - 8/20µs | Uoc 10 kV                      | Withstand on overvoltages IEEE C62.41.1 | 10 kV / 10 kA | Protection mode(s) | L/N         | Protection level L/N @ In (8/20µs) | Up L/N 1.5 kV | Admissible short-circuit current | Iscrr 10 000 A |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--|-----------------------|--------------------------------------------------|---------------|----------|---------------------------|------------------------|-------------------------|--------------|--------------------------------------------|----------|-------------------------------------------------|----------|---------------------------------------------------------|-----------------------------------|----------------------------------------------------------------------------------|--------------------------------|-----------------------------------------|---------------|--------------------|-------------|------------------------------------|---------------|----------------------------------|----------------|
| Electrical Characteristics                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                            |  |                       |                                                  |               |          |                           |                        |                         |              |                                            |          |                                                 |          |                                                         |                                   |                                                                                  |                                |                                         |               |                    |             |                                    |               |                                  |                |
| Network                                                                             | 230 V single-phase                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |  |                       |                                                  |               |          |                           |                        |                         |              |                                            |          |                                                 |          |                                                         |                                   |                                                                                  |                                |                                         |               |                    |             |                                    |               |                                  |                |
| AC system                                                                           | TT-TN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                            |  |                       |                                                  |               |          |                           |                        |                         |              |                                            |          |                                                 |          |                                                         |                                   |                                                                                  |                                |                                         |               |                    |             |                                    |               |                                  |                |
| Max. AC operating voltage                                                           | Uc 255 Vac                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |  |                       |                                                  |               |          |                           |                        |                         |              |                                            |          |                                                 |          |                                                         |                                   |                                                                                  |                                |                                         |               |                    |             |                                    |               |                                  |                |
| Max. load current @25°C                                                             | IL 5 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |  |                       |                                                  |               |          |                           |                        |                         |              |                                            |          |                                                 |          |                                                         |                                   |                                                                                  |                                |                                         |               |                    |             |                                    |               |                                  |                |
| Residual Current Leakage current to Ground                                          | Ipe None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |  |                       |                                                  |               |          |                           |                        |                         |              |                                            |          |                                                 |          |                                                         |                                   |                                                                                  |                                |                                         |               |                    |             |                                    |               |                                  |                |
| Nominal discharge current 15 x 8/20 µs impulses                                     | In 5 kA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |  |                       |                                                  |               |          |                           |                        |                         |              |                                            |          |                                                 |          |                                                         |                                   |                                                                                  |                                |                                         |               |                    |             |                                    |               |                                  |                |
| Max. discharge current max. withstand @ 8/20 µs by pole                             | Imax 10 kA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |  |                       |                                                  |               |          |                           |                        |                         |              |                                            |          |                                                 |          |                                                         |                                   |                                                                                  |                                |                                         |               |                    |             |                                    |               |                                  |                |
| Withstand on Combination waveform IEC 61643-11 Class III test: 1.2/50µs - 8/20µs    | Uoc 10 kV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |  |                       |                                                  |               |          |                           |                        |                         |              |                                            |          |                                                 |          |                                                         |                                   |                                                                                  |                                |                                         |               |                    |             |                                    |               |                                  |                |
| Withstand on overvoltages IEEE C62.41.1                                             | 10 kV / 10 kA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                            |  |                       |                                                  |               |          |                           |                        |                         |              |                                            |          |                                                 |          |                                                         |                                   |                                                                                  |                                |                                         |               |                    |             |                                    |               |                                  |                |
| Protection mode(s)                                                                  | L/N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                            |  |                       |                                                  |               |          |                           |                        |                         |              |                                            |          |                                                 |          |                                                         |                                   |                                                                                  |                                |                                         |               |                    |             |                                    |               |                                  |                |
| Protection level L/N @ In (8/20µs)                                                  | Up L/N 1.5 kV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                            |  |                       |                                                  |               |          |                           |                        |                         |              |                                            |          |                                                 |          |                                                         |                                   |                                                                                  |                                |                                         |               |                    |             |                                    |               |                                  |                |
| Admissible short-circuit current                                                    | Iscrr 10 000 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                            |  |                       |                                                  |               |          |                           |                        |                         |              |                                            |          |                                                 |          |                                                         |                                   |                                                                                  |                                |                                         |               |                    |             |                                    |               |                                  |                |
|  | <table> <tr> <th colspan="2">Mechanical Characteristics</th></tr> <tr> <td>Connection to Network</td><td>In series by conductors 1.5mm² - spring terminal</td></tr> <tr> <td>Mounting</td><td>On plate</td></tr> <tr> <td>Housing material</td><td>Thermoplastic UL94 V-0</td></tr> <tr> <td>Operating temperature</td><td>Tu -40/+85°C</td></tr> <tr> <td>Protection rating</td><td>IP20</td></tr> <tr> <td>Insulation class</td><td>Classe 2</td></tr> <tr> <td>Failsafe mode</td><td>Disconnection and AC line cut-off</td></tr> <tr> <td>Disconnection indicator</td><td>Green LED OFF and line cut off</td></tr> <tr> <td>Voltage/operating indicator</td><td>Green Led ON</td></tr> <tr> <td>Dimensions</td><td>See diagram</td></tr> <tr> <td>Weight</td><td>0.040 kg</td></tr> </table>                                                                                                                                                                                       | Mechanical Characteristics |  | Connection to Network | In series by conductors 1.5mm² - spring terminal | Mounting      | On plate | Housing material          | Thermoplastic UL94 V-0 | Operating temperature   | Tu -40/+85°C | Protection rating                          | IP20     | Insulation class                                | Classe 2 | Failsafe mode                                           | Disconnection and AC line cut-off | Disconnection indicator                                                          | Green LED OFF and line cut off | Voltage/operating indicator             | Green Led ON  | Dimensions         | See diagram | Weight                             | 0.040 kg      |                                  |                |
| Mechanical Characteristics                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                            |  |                       |                                                  |               |          |                           |                        |                         |              |                                            |          |                                                 |          |                                                         |                                   |                                                                                  |                                |                                         |               |                    |             |                                    |               |                                  |                |
| Connection to Network                                                               | In series by conductors 1.5mm² - spring terminal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |  |                       |                                                  |               |          |                           |                        |                         |              |                                            |          |                                                 |          |                                                         |                                   |                                                                                  |                                |                                         |               |                    |             |                                    |               |                                  |                |
| Mounting                                                                            | On plate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |  |                       |                                                  |               |          |                           |                        |                         |              |                                            |          |                                                 |          |                                                         |                                   |                                                                                  |                                |                                         |               |                    |             |                                    |               |                                  |                |
| Housing material                                                                    | Thermoplastic UL94 V-0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |  |                       |                                                  |               |          |                           |                        |                         |              |                                            |          |                                                 |          |                                                         |                                   |                                                                                  |                                |                                         |               |                    |             |                                    |               |                                  |                |
| Operating temperature                                                               | Tu -40/+85°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            |  |                       |                                                  |               |          |                           |                        |                         |              |                                            |          |                                                 |          |                                                         |                                   |                                                                                  |                                |                                         |               |                    |             |                                    |               |                                  |                |
| Protection rating                                                                   | IP20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                            |  |                       |                                                  |               |          |                           |                        |                         |              |                                            |          |                                                 |          |                                                         |                                   |                                                                                  |                                |                                         |               |                    |             |                                    |               |                                  |                |
| Insulation class                                                                    | Classe 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |  |                       |                                                  |               |          |                           |                        |                         |              |                                            |          |                                                 |          |                                                         |                                   |                                                                                  |                                |                                         |               |                    |             |                                    |               |                                  |                |
| Failsafe mode                                                                       | Disconnection and AC line cut-off                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                            |  |                       |                                                  |               |          |                           |                        |                         |              |                                            |          |                                                 |          |                                                         |                                   |                                                                                  |                                |                                         |               |                    |             |                                    |               |                                  |                |
| Disconnection indicator                                                             | Green LED OFF and line cut off                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                            |  |                       |                                                  |               |          |                           |                        |                         |              |                                            |          |                                                 |          |                                                         |                                   |                                                                                  |                                |                                         |               |                    |             |                                    |               |                                  |                |
| Voltage/operating indicator                                                         | Green Led ON                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            |  |                       |                                                  |               |          |                           |                        |                         |              |                                            |          |                                                 |          |                                                         |                                   |                                                                                  |                                |                                         |               |                    |             |                                    |               |                                  |                |
| Dimensions                                                                          | See diagram                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                            |  |                       |                                                  |               |          |                           |                        |                         |              |                                            |          |                                                 |          |                                                         |                                   |                                                                                  |                                |                                         |               |                    |             |                                    |               |                                  |                |
| Weight                                                                              | 0.040 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |  |                       |                                                  |               |          |                           |                        |                         |              |                                            |          |                                                 |          |                                                         |                                   |                                                                                  |                                |                                         |               |                    |             |                                    |               |                                  |                |
|                                                                                     | <table> <tr> <th colspan="2">Standards</th></tr> <tr> <td>Standards compliance</td><td>EN 61643-11 / IEC 61643-11</td></tr> <tr> <td>Certification</td><td></td></tr> <tr> <th colspan="2">Part number</th></tr> <tr> <td colspan="2">832278</td></tr> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Standards                  |  | Standards compliance  | EN 61643-11 / IEC 61643-11                       | Certification |          | Part number               |                        | 832278                  |              |                                            |          |                                                 |          |                                                         |                                   |                                                                                  |                                |                                         |               |                    |             |                                    |               |                                  |                |
| Standards                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                            |  |                       |                                                  |               |          |                           |                        |                         |              |                                            |          |                                                 |          |                                                         |                                   |                                                                                  |                                |                                         |               |                    |             |                                    |               |                                  |                |
| Standards compliance                                                                | EN 61643-11 / IEC 61643-11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |  |                       |                                                  |               |          |                           |                        |                         |              |                                            |          |                                                 |          |                                                         |                                   |                                                                                  |                                |                                         |               |                    |             |                                    |               |                                  |                |
| Certification                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                            |  |                       |                                                  |               |          |                           |                        |                         |              |                                            |          |                                                 |          |                                                         |                                   |                                                                                  |                                |                                         |               |                    |             |                                    |               |                                  |                |
| Part number                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                            |  |                       |                                                  |               |          |                           |                        |                         |              |                                            |          |                                                 |          |                                                         |                                   |                                                                                  |                                |                                         |               |                    |             |                                    |               |                                  |                |
| 832278                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                            |  |                       |                                                  |               |          |                           |                        |                         |              |                                            |          |                                                 |          |                                                         |                                   |                                                                                  |                                |                                         |               |                    |             |                                    |               |                                  |                |