Combine safety and performance

Masterpact and Compact Micrologic trip units provide outstanding protection as well as an integrated measurement unit to help you monitor power conditions and manage energy consumption.

Industry

- Power monitoring and control
- Advanced protection
- Power distribution
- Diagnostic and maintenance
- Continuous operation
- Load trend monitoring
- Integration in a supervision and control system through communication (SCADA, DCS, etc.)
- Management of energy quality

Internal

- High current protection
- Specific motor protection
- Short-circuit protection
- Diagnostic and maintenance
- Optimal size solution
- Total discrimination
- Continuity of service

Marine

- High current protection
- Specific motor protection
- Short-circuit protection
- Diagnostic and maintenance
- Load trend monitoring
- Integration in a supervision and control system through communication (SCADA, DCS, etc.)
- Management of energy quality

Make the most of your energy™

www.schneider-electric.com
Combine safety and performance

Masterpact and Compact Micrologic trip units provide outstanding protection as well as an integrated measurement unit to help you monitor power conditions and manage energy consumption.

Building & Infrastructure

Power management and monitoring
> Optimize power consumption
> Cost allocation
> Integration in a Building Management System through communication.

Industry

Power metering and control
> Advanced protection
> Alarming and programmable contact
> Cost allocation
> Diagnostic and maintenance
> Continuity of service
> Load trend monitoring
> Integration in a supervision and control system through communication (SCADA, DCS, etc.)
> Management of energy quality.

IT

Critical Power
> Power availability
> Suitable for specific and advanced protection
> Diagnostic and maintenance
> Load trend monitoring
> Integration in a supervision and control system through communication
> Management of energy quality.

Marine

High current protection
> Specific motor protection
> Total discrimination
> Diagnostic and maintenance
> Optimized size solution
> Integration in a supervision and control system through communication (SCADA, DCS, etc.)
> Continuity of service.
### Micrologic offer for Masterpact & Compact NS

**Micrologic 5.0 E**  
Type of measurement  
Version  
Type of current protection

<table>
<thead>
<tr>
<th>Type of Measurement</th>
<th>Version</th>
<th>Type of Current Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>without</td>
<td>A</td>
<td>E</td>
</tr>
<tr>
<td>2: Distribution L, I</td>
<td>2.0</td>
<td>2.0</td>
</tr>
<tr>
<td>5: Selective L, S, I</td>
<td>5.0</td>
<td>5.0</td>
</tr>
<tr>
<td>6: Selective and earth-fault protection L, S, I, G</td>
<td>6.0</td>
<td>6.0</td>
</tr>
<tr>
<td>7: Selective protection with earth-leakage protection L, S, I, V</td>
<td>7.0</td>
<td>7.0</td>
</tr>
</tbody>
</table>

*Motor protection available – **Generator and motor protection available

### Micrologic offer for Compact NSX

**Micrologic 5.3 E**  
Type of measurement  
Basic Frame Size  
Type of current protection

<table>
<thead>
<tr>
<th>Type of Measurement</th>
<th>Basic Frame Size</th>
<th>Type of Current Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>without</td>
<td>M</td>
<td>A</td>
</tr>
<tr>
<td>1: Motors I</td>
<td>1.3</td>
<td>2.2** – 2.3*</td>
</tr>
<tr>
<td>2: Distribution L, I</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5: Selective L, S, I</td>
<td></td>
<td>5.2 – 5.3</td>
</tr>
<tr>
<td>6: Selective and earth-fault protection L, S, I, G</td>
<td>6.2 – 6.3</td>
<td>6.2* – 6.3*</td>
</tr>
</tbody>
</table>

### Make the most of your energy™

www.schneider-electric.com
Micrologic Trip Unit for Masterpact and Compact
Selection guide
### Micrologic selection guide

<table>
<thead>
<tr>
<th>Type of application</th>
<th>Type of tripping curve</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Micrologic 1.3 E</strong></td>
<td></td>
</tr>
<tr>
<td>Motor Protection</td>
<td></td>
</tr>
<tr>
<td>Energy</td>
<td>Basic protection (up to 500 A)</td>
</tr>
<tr>
<td>Protective contacts</td>
<td></td>
</tr>
<tr>
<td>Communication</td>
<td></td>
</tr>
<tr>
<td><strong>Micrologic 2.2/2.3</strong></td>
<td></td>
</tr>
<tr>
<td>Motor Protection</td>
<td>Basic protection (500 A to 1000 A)</td>
</tr>
<tr>
<td>Protective contacts</td>
<td></td>
</tr>
<tr>
<td>Communication</td>
<td></td>
</tr>
<tr>
<td><strong>Micrologic 5.2A/5.3A</strong></td>
<td></td>
</tr>
<tr>
<td>Motor Protection</td>
<td>Basic protection (1000 A to 2000 A)</td>
</tr>
<tr>
<td>Protective contacts</td>
<td></td>
</tr>
<tr>
<td>Communication</td>
<td></td>
</tr>
</tbody>
</table>

### Earthing System

- TT: Earthing system with separate protective conductor (PE) only for grounded equipment.
- IT: Partly grounded system with PE and PEN sharing the same conductor.
- TN-C: Neutral conductor (N) and PE conductor (PE) share the same conductor.

<table>
<thead>
<tr>
<th>Breaker frame</th>
<th>6.0 E-7.0 P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-Applicable</td>
<td>Non-Applicable</td>
</tr>
</tbody>
</table>

#### Technical specifications

- **Compact NSX 100/630**
- **Communications**: Modbus, Modbus TCP/IP
- **Micrologic selection**: 1.3, 2.2/2.3, 5.2A/5.3A
- **Protection options**: Programmable contacts, communication
- **Operation**: Ready setting, trip history, operation counters
- **Maintenance**: Information, test, alarm, delay, instantaneous

### Micrologic A

- Basic protection (up to 500 A)
- Time delay for ground fault
- Communication: Modbus, Modbu TCP/IP
- Residual earth leakage protection (V)
- Power and energy metering
- Programmable contacts
- Maintenance information

### Micrologic B

- Basic protection (500 A to 1000 A)
- Programmable load curve
- Communication: Modbus, Modbus TCP/IP
- Residual earth leakage protection (V)
- Power and energy metering
- Programmable contacts
- Maintenance information

### Micrologic C

- Basic protection (1000 A to 2000 A)
- Programmable load curve
- Communication: Modbus, Modbus TCP/IP
- Residual earth leakage protection (V)
- Power and energy metering
- Programmable contacts
- Maintenance information

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**Note**: The content is extracted from a technical document related to Micrologic selection. The table and diagram provide a comprehensive overview of the product's specifications and features, highlighting its suitability for various applications and environments.
### Micrologic selection guide

#### Type of application

<table>
<thead>
<tr>
<th>Micrologic 1.3 M</th>
<th>Micrologic 2.2 / 2.3</th>
<th>Micrologic 5.2A / 5.3A = (LSI) + Ammeter</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Motors protection from 320 to 500 A</strong></td>
<td><strong>Motors from 25 to 220 A, Generators from 40 to 630 A, Distribution from 40 to 630 A</strong></td>
<td><strong>Generators from 40 to 630 A, Distribution from 40 to 630 A</strong></td>
</tr>
<tr>
<td>Standard application (green and office building, education, hotel, food&amp;beverage, etc.)</td>
<td>Standard application (green and office building, education, hotel, food&amp;beverage, etc.)</td>
<td>Standard application with current measurement (green and office building, education, hotel, food&amp;beverage, etc.)</td>
</tr>
<tr>
<td>- Motor Protection (I only)</td>
<td>- Basic protection (LSol)</td>
<td>- Pre Alarm Ir</td>
</tr>
<tr>
<td>- Communication Modbus, Modbus TCP/IP</td>
<td>- Pre Alarm Ir</td>
<td>- Led Ready</td>
</tr>
<tr>
<td>- Communication Modbus, Modbus TCP/IP</td>
<td>- Led Ready</td>
<td>- Current measurement</td>
</tr>
<tr>
<td>- Programmable contacts (Ir trip alarm)</td>
<td>- Programmable contacts (Ir trip alarm, Ir pre alarm, Imax, Imin, und current, contact wear, etc.)</td>
<td>- Programmable contacts</td>
</tr>
<tr>
<td>- Communication Modbus, Modbus TCP/IP</td>
<td>- Communication Modbus, Modbus TCP/IP</td>
<td></td>
</tr>
</tbody>
</table>

#### Type of tripping curve

- **1.3-M Distribution and motors**
  - 1.3-M Distribution and motors

- **2.2 Distribution**
  - 2.2 Distribution
  - 2.2 AB Service connection (public distribution)
  - 2.2 G Generators
  - 2.2 M Motors

- **2.3 Distribution**
  - 2.3 Distribution
  - 2.3 AB Service connection (public distribution)
  - 2.3 M Motors

- **6.2 A Distribution and generators**
  - 6.2 A Distribution and generators

- **6.3 A Distribution and generators**
  - 6.3 A Distribution and generators

#### Breaker frame

- **Compact NSX 400/630**
- **Compact NSX 100/630**
- **Compact NSX 100/630**
**Motors from 25 to 220 A, Generators from 40 to 630 A, Distribution from 40 to 630 A**

- Critical application with harmonics distortion and energy measurement (Data Center, healthcare, life science, MMM, Marine, water)

**Distribution from 630 to 3200 A**

- Standard application without current measurement (green and office building, education, hotel, food&beverage, etc.)

**Distribution from 630 to 6300 A**

- Standard application with current measurement (green and office building, education, hotel, food&beverage, etc.)

**Micrologic 1.3 M Micrologic 2.2 / 2.3 Micrologic 5.2A / 5.3A = (LSI) + Ammeter**

- Basic protection (LSIG)
- Pre Alarm Ir
- Communication Modbus, Modbus TCP/IP

**Micrologic 6.2A / 6.3A = (LSI + Ground fault) + Communication Modbus, Modbus TCP/IP**

- Basic protection (LSIG)
- Residual Earth leakage protection (V)
- Pre Alarm Ir
- Current measurement
- Communication Modbus, Modbus TCP/IP

**Micrologic 6.2E / 6.3E = (LSI + Ground fault) + Energy meter**

- Programmed contacts (over consumption, rotation phase, max frequency, etc.)
- Communication Modbus, Modbus TCP/IP

**Micrologic without measurement**

- Wave form capture after fault, alarm or overload

**Micrologic A**

- Three phase current
- Current measurement
- Communication Modbus, Modbus TCP/IP

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**Compact NS 100/630**

**Compact NS**

**Compact NS**
<table>
<thead>
<tr>
<th>Micrologic E</th>
<th>Micrologic P</th>
<th>Micrologic H</th>
</tr>
</thead>
</table>
| Basic protection (LSIG), trip alarm, trip pre alarm | Micrologic E +  
- Residual earth leakage protection (V)  
- IDMTL long time protection  
- Protection and functions advanced (over voltage, reverse power, load shedding, etc.)  
- Programmable contacts (over consumption, rotation phase, max frequency, etc.)  
- Maintenance information (wear contact, alarm history, etc.)  
- Communication Modbus, Modbus TCP/IP | Micrologic P +  
- Power quality: Harmonic individual up to 31st order, fundamentals, THD, etc.)  
- Wave form capture after fault, alarm or on request  
- Enhanced alarm programming: thresholds and actions  
- Communication Modbus, Modbus TCP/IP |

<table>
<thead>
<tr>
<th>Distribution from 630 to 6300 A</th>
<th>Distribution from 630 to 6300 A</th>
<th>Distribution from 630 to 6300 A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Critical application with energy measurement (healthcare, green building, oil&amp;gas, life science, etc.)</td>
<td>Critical application with energy measurement (Data Center, healthcare, life science, MMM, Marine, water)</td>
<td>Distribution and generators</td>
</tr>
</tbody>
</table>

*IT = to add VigiOhm