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**

- 5.0: Type of measurement
- E: Version
- 5.0: Type of current protection

	without	A	E	P	H
2: Distribution L, I	2.0	2.0	2.0		
5: Selective L, S, I	5.0	5.0	5.0	5.0	5.0
6: Selective and earth-fault protection L, S, I, G	6.0	6.0	6.0	6.0	6.0
7: Selective protection with earth-leakage protection L, S, I, V		7.0		7.0	7.0

Micrologic offer for Compact NSX

Micrologic **5.3 E**

- 5: Type of measurement
- 3: Basic Frame Size
- E: Type of current protection

	M	without	A	E
1: Motors I	1.3			
2: Distribution L, I		2.2** – 2.3*		
5: Selective L, S, I			5.2 – 5.3	5.2 – 5.3
6: Selective and earth-fault protection L, S, I, G			6.2 – 6.3	6.2* – 6.3*

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

A =	Current measurement
E =	Energy measurement
P =	Power measurement
H =	Harmonic measurement
M =	Motor protection
Without =	No measurement

L =	Long time protection
S =	Short time protection
I =	Instantaneous protection
G =	Ground fault protection
V =	Earth Leakage protection

Make the most of your energy™

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Micrologic Trip Unit
for Masterpact and Compact

Selection guide

Schneider Electric

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Micrologic offer for Masterpact & Compact NS

Micrologic **5.0 E**

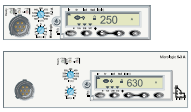
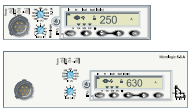
- 5.0 — Type of measurement
- E — Version
- Type of current protection

	without	A	E	P	H
2: Distribution L, I	2.0	2.0	2.0		
5: Selective L, S, I	5.0	5.0	5.0	5.0	5.0
6: Selective and earth-fault protection L, S, I, G	6.0	6.0	6.0	6.0	6.0
7: Selective protection with earth-leakage protection L, S, I, V		7.0		7.0	7.0

Micrologic offer for Compact NSX

Micrologic **5.3 E**

- 5 — Type of measurement
- 3 — Basic Frame Size
- E — Type of current protection

	M	without	A	E
1: Motors I	1.3			
2: Distribution L, I		2.2** – 2.3*		
5: Selective L, S, I			5.2 – 5.3	5.2 – 5.3
6: Selective and earth-fault protection L, S, I, G			6.2 – 6.3	6.2* – 6.3*

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

A =	Current measurement
E =	Energy measurement
P =	Power measurement
H =	Harmonic measurement
M =	Motor protection
Without =	No measurement

L =	Long time protection
S =	Short time protection
I =	Instantaneous protection
G =	Ground fault protection
V =	Earth Leakage protection

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Micrologic Trip Unit
for Masterpact and Compact

Selection guide

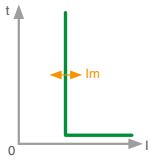
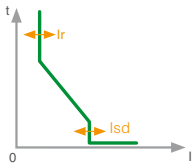
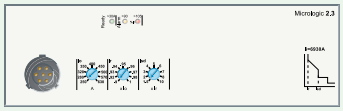
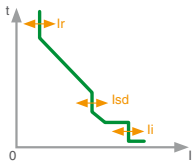
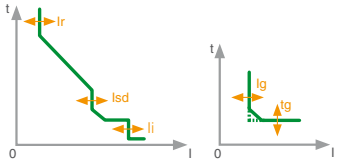
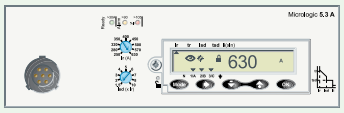
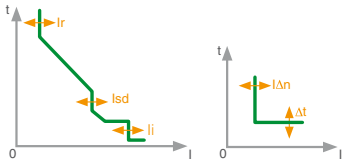
Schneider Electric

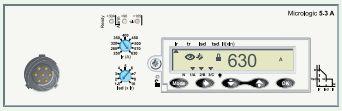
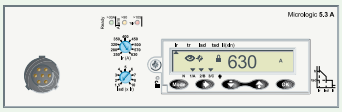
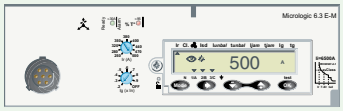
Micrologic selection guide

	● Motors protection from 320 to 500 A	● Motors from 25 to 220 A, Generators from 40 to 630 A, Distribution from 40 to 630 A	● Generators from 40 to 630 A, Distribution from 40 to 630 A	● Motors from 25 to 220 A, Generators from 40 to 630 A, Distribution from 40 to 630 A	● Distribution from 630 to 3200 A	● Distribution from 630 to 3200 A	● Distribution from 630 to 6300 A	● Distribution from 630 to 6300 A	● Distribution from 630 to 6300 A	
Type of application	**Standard application (green and office building, education, hotel, food&beverage, etc.)**	**Standard application (green and office building, education, hotel, food&beverage, etc.)**	**Standard application with current measurement (green and office building, education, hotel, food&beverage, etc.)**	**Critical application with harmonics distortion and energy measurement (Data Center, healthcare, life science, MMM, Marine, water)**	**Standard application without current measurement (green and office building, education, hotel, food&beverage, etc.)**	**Standard application with current measurement (green and office building, education, hotel, food&beverage, etc.)**	**Standard application with energy measurement (green and office building, education, hotel, food&beverage, etc.)**	**Critical application with energy measurement (healthcare, green building, oil&gas, life science, etc.)**	**Critical application with harmonics distortion and energy measurement (Data Center, healthcare, life science, MMM, Marine, water)**	
	Micrologic 1.3 M	**Micrologic 2.2 / 2.3**	**Micrologic 5.2A / 5.3A = (LSI) + Ammeter Micrologic 6.2A / 6.3A = (LSI + Ground fault) + Ammeter**	**Micrologic 5.2E / 5.3E = (LSI) + Energy meter Micrologic 6.2E / 6.3E = (LSI + Ground fault) + Energy meter**	**Micrologic without measurement**	**Micrologic A**	**Micrologic E**	**Micrologic P**	**Micrologic H**	
	> Motor Protection (I only) > Communication Modbus, Modbus TCP/IP	> Basic protection (LSoI) > Pre Alarm Ir > Led Ready > Programmable contacts (Ir trip alarm) > Communication Modbus, Modbus TCP/IP	> Pre Alarm Ir > Led Ready > Current measurement > Programmable contacts (Ir trip alarm, Ir pre alarm, Imax, Imin, under current, contact wear, etc.) > Communication Modbus, Modbus TCP/IP	> Measurement (Voltage, frequency, power, maximeter, minimeter, energy, current and power demand, power quality) > Operating and maintenance assistance (alarms, trip history, setting history, contact wear, alarm history, operation counter, load profile, THD load profile, motor thermal image, etc.) > Advanced protection and functions (over voltage, reverse power, load shedding, etc.) > Programmable contacts (over consumption, rotation phase, max frequency, etc.) > Communication Modbus, Modbus TCP/IP	> Basic protection (LSIG), Pre Alarm Ir > Communication Modbus, Modbus TCP/IP	> Basic protection (LSIG) > Residual Earth leakage protection (V) > Pre Alarm Ir > Current measurement > Communication Modbus, Modbus TCP/IP	> Basic protection (LSIG), > Trip alarm, trip pre alarm > Current, voltage, power factor measurement > Power and energy metering > Power and current demand > "Quickview" function for the automatic cyclical display of the most useful values > Programmable contacts (trip cause, pre alarm) > Maintenance information (load profile, operation counter, trip history) > Communication Modbus, Modbus TCP/IP	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	**Earthing System**
Type of tripping curve										
	1.3-M Distribution and motors									**Not Applicable**
		2.2 Distribution **2.2 AB** Service connection (public distribution) **2.2 G** Generators **2.2 M** Motors **2.3** Distribution **2.3 AB** Service connection (public distribution) **2.3 M** Motors			**2.0**	**2.0 A**	**2.0 E**			**TN-C TN-S IT***
			5.2 A Distribution and generators **5.3 A** Distribution and generators	**5.2 E** Distribution and generators **5.3 E** Distribution and generators	**5.0**	**5.0 A**	**5.0 E**	**5.0 P**	**5.0 H**	**TN-C TN-S IT***
			6.2 A Distribution and generators **6.3 A** Distribution and generators	**6.2 E** Distribution and generators **6.3 E** Distribution and generators **6.2 E-M** Motors **6.3 E-M** Motors	**6.0**	**6.0 A**	**6.0 E**	**6.0 P**	**6.0 H**	**TN-C TN-S IT***
						7.0 A		**7.0 P**	**7.0 H**	**TT**
Breaker frame	**Compact NSX 400/630**	**Compact NSX 100/630**	**Compact NSX 100/630**	**Compact NSX 100/630**	**Compact NS**	**Compact NS**	**Compact NS Masterpact**	**Compact NS Masterpact**	**Masterpact**	

*IT = to add Vigilohm

Micrologic selection guide

	● Motors protection from 320 to 500 A	● Motors from 25 to 220 A, Generators from 40 to 630 A, Distribution from 40 to 630 A	● Generators from 40 to 630 A, Distribution from 40 to 630 A
Type of application	**Standard application** (green and office building, education, hotel, food&beverage, etc.)	**Standard application** (green and office building, education, hotel, food&beverage, etc.)	**Standard application with current measureme** (green and office building, education, hotel, food&beverage, etc.)
>>>	**Micrologic 1.3 M**	**Micrologic 2.2 / 2.3**	**Micrologic 5.2A / 5.3A = (LSI) + Ammet Micrologic 6.2A / 6.3A = (LSI + Ground Ammeter**
	> Motor Protection (I only) > Communication Modbus, Modbus TCP/IP	> Basic protection (LSoI) > Pre Alarm Ir > Led Ready > Programmable contacts (Ir trip alarm) > Communication Modbus, Modbus TCP/IP	> Pre Alarm Ir > Led Ready > Current measurement > Programmable contacts (Ir trip alarm, Ir pre alarm, Imax, Imin, und current, contact wear, etc.) > Communication Modbus, Modbus TCP/IP
Type of tripping curve			
	 **1.3-M** Distribution and motors		
		 **2.2** Distribution **2.2 AB** Service connection (public distribution) **2.2 G** Generators **2.2 M** Motors  **2.3** Distribution **2.3 AB** Service connection (public distribution) **2.3 M** Motors	
			 **5.2 A** Distribution and generators **5.3 A** Distribution and generators
			 **6.2 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	● Distribution from 630 to 3200 A	● Distribution from 630 to 3200 A	●
nt	Critical application with harmonics distortion and energy measurement (Data Center, healthcare, life science, MMM, Marine, water)	Standard application without current measurement (green and office building, education, hotel, food&beverage, etc.)	Standard application with current measurement (green and office building, education, hotel, food&beverage, etc.)	Sta (gr foo
er fault) +	**Micrologic 5.2E / 5.3E = (LSI) + Energy meter** **Micrologic 6.2E / 6.3E = (LSI + Ground fault) + Energy meter**	**Micrologic without measurement**	**Micrologic A**	Mi
ler	> Measurement (Voltage, frequency, power, maximeter, minimeter, energy, current and power demand, power quality) > Operating and maintenance assistance (alarms, trip history, setting history, contact wear, alarm history, operation counter, load profile, THD load profile, motor thermal image, etc.) > Advanced protection and functions (over voltage, reverse power, load shedding, etc.) > Programmable contacts (over consumption, rotation phase, max frequency, etc.) > Communication Modbus, Modbus TCP/IP	> Basic protection (LSIG), Pre Alarm Ir > Communication Modbus, Modbus TCP/IP	> Basic protection (LSIG) > Residual Earth leakage protection (V) > Pre Alarm Ir > Current measurement > Communication Modbus, Modbus TCP/IP	> > > > > > > > >
		 2.0	 2.0 A	 2.0
	 5.2 E Distribution and generators  **5.3 E** Distribution and generators	 5.0	 5.0 A	 5.0
	 6.2 E Distribution and generators  **6.3 E** Distribution and generators **6.2 E-M** Motors  **6.3 E-M** Motors	 6.0	 6.0 A	 6.0
			 7.0 A	
	Compact NSX 100/630	Compact NS	Compact NS	

Distribution from 630 to 6300 A	● Distribution from 630 to 6300 A	● Distribution from 630 to 6300 A	
andard application with energy measurement een and office building, education, hotel, od&beverage, etc.)	**Critical application with energy measurement (healthcare, green building, oil&gas, life science, etc.)**	**Critical application with harmonics distortion and energy measurement (Data Center, healthcare, life science, MMM, Marine, water)**	
icrologic E	**Micrologic P**	**Micrologic H**	
Basic protection (LSIG), Trip alarm, trip pre alarm Current, voltage, power factor measurement Power and energy metering Power and current demand "Quickview" function for the automatic cyclical display of the most useful values Programmable contacts (trip cause, pre alarm) Maintenance information (load profile, operation counter, trip history) Communication Modbus, Modbus TCP/IP	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	**Earthing System**
			Not Applicable
 E			**TN-C TN-S IT***
 E	 5.0 P	 5.0 H	**TN-C TN-S IT***
 E	 6.0 P	 6.0 H	**TN-C TN-S IT***
	 7.0 P	 7.0 H	**TT**
Compact NS **Masterpact**	**Compact NS** **Masterpact**	**Masterpact**	

*IT = to add Vigilohm