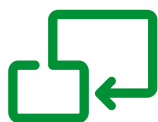


# Masterpact NT and NW

LV power circuit breakers 630 to 6300 A



Network  
protection



Compact

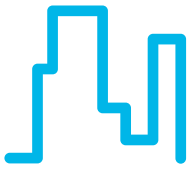


Supervision

**Schneider**  
Electric

# Covering all your applications

Masterpact meets the needs of all types of LV electrical distribution networks.



## Building

- Hotels
- Hospitals
- Offices
- Retail



## Data Centres and Networks



## Industry

- Mining and minerals
- Automotive
- Food and beverage
- Chemical industry



## Energy and Infrastructures

- Airports
- Oil and gas
- Water
- Electrical energy
- Marine
- Wind turbines



Masterpact provides an answer to specific applications.

- 1000 V for mines
- Direct current networks
- Corrosion protection
- Switch-disconnectors and earthing switches
- Automatic transfer switching equipment (ATSE) for emergency power systems
- High electrical endurance applications: Masterpact NT H2 is a high performance device offering high breaking capacity (Icu: 50 kA/480 V) and a high level of discrimination, all in a small volume

## Masterpact UR

### Whenever high short circuit is involved

Masterpact UR is a low voltage ultra rapid opening circuit breaker. Its fault detection rate and its reaction speed mean that it will stop a short circuit from developing. As a result, this is the key component in very high power installations equipped with a number of power sources connected in parallel.

Masterpact UR truly comes into its own when short circuit currents can reach very high levels and when continuity of service is a must: **offshore installations, cement plants, petrochemical industry**. It is also especially suited to electrical installations on board **merchant ships**.



# Concentrated know-how

Aiming at standardising electrical switchboards at a time when installations are increasingly complex, Masterpact provides an unequalled simplicity, both concerning choice and installation.

## Optimised volumes

Masterpact is the smallest power circuit breaker in the world, concentrating all the performances of a sophisticated power circuit breaker in compact dimensions. Masterpact thus optimises the installation and guarantees its operation in complete peace of mind.

## Ease of installation

Masterpact range has been designed to standardise switchboards and simplify installation:

- single pole pitch for each physical size: 115/230 mm for NW, 70 mm for NT;
- incoming connection to top or bottom terminals: front or horizontal or vertical rear connections that can be modified on-site without changing the depth;
- no derating up to 55 °C and 4000 A.

## Maximum security

The arc chutes absorb the energy released during breaking, thus limiting the stresses exerted on the installation. They filter and cool the gases produced, reducing effects perceptible from the outside.



Masterpact NT



Masterpact NW

More than

# 60

patents

# 86%

of materials can be recycled at the end of product life.

## All standards

Masterpact is compliant with international standards IEC 60947-1 and 2, IEC 68230 for type 2 tropicalisation, UL489, ANSI/UL1066, CCC and GOST.



## Compliance with environmental requirements

The materials used for Masterpact are not potentially dangerous to the environment and are marked to facilitate sorting for recycling.

Production facilities are non-polluting in compliance with the ISO 14001 standard.



# Circuit breakers and switch-disconnectors

NT06 to NT16

## Common characteristics

|   |             |      |
|---|-------------|------|
| Number of poles                         |             | 3/4  |
| Rated insulation voltage (V)            | <b>Ui</b>   | 1000 |
| Impulse withstand voltage (kV)          | <b>Uimp</b> | 12   |
| Rated operational volt. (V AC 50/60 Hz) | <b>Ue</b>   | 690  |
| Suitability for isolation               | IEC 60947-2 |      |
| Degree of pollution                     | IEC 60664-1 | 3    |

## Sensor selection

|                       |                    |            |            |            |             |             |             |
|-----------------------|--------------------|------------|------------|------------|-------------|-------------|-------------|
| Sensor rating (A)     | 250 <sup>(1)</sup> | 400        | 630        | 800        | 1000        | 1250        | 1600        |
| Ir threshold set. (A) | 100 to 250         | 160 to 400 | 250 to 630 | 320 to 800 | 400 to 1000 | 500 to 1250 | 640 to 1600 |

(1) For NT02 rating, please consult us.

## Circuit breaker characteristics as per IEC 60947-2

|   |            |                         | NT06                           | NT08       | NT10        | NT12         | NT16        |
|---|------------|-------------------------|--------------------------------|------------|-------------|--------------|-------------|
| Rated current (A)   | <b>In</b>  | 40/50 °C <sup>(1)</sup> | 630                            | 800        | 1000        | 1250         | 1600        |
| Rating of 4th pole (A)                                    |            |                         | 630                            | 800        | 1000        | 1250         | 1600        |
| Sensor ratings (A)  |            |                         | 400 to 630                     | 400 to 800 | 400 to 1000 | 630 to 1250  | 800 to 1600 |
| <b>Type of circuit breaker</b>                            |            |                         | <b>H1 H2 L1</b> <sup>(2)</sup> |            |             | <b>H1 H2</b> |             |
| Ultimate breaking capacity (kA rms)                       | <b>Icu</b> | 220/415 V               | 42 50 150                      |            |             | 42 50        |             |
| V AC 50/60 Hz   |            | 440 V                   | 42 50 130                      |            |             | 42 50        |             |
|   |            | 525 V                   | 42 42 100                      |            |             | 42 42        |             |
|   |            | 690 V                   | 42 42 25                       |            |             | 42 42        |             |
| Rated service breaking capacity (kA rms)                  | <b>Ics</b> | % Icu                   | 100%                           |            |             | 100%         |             |
| Utilisation category                                      |            |                         | B B A                          |            |             | B B          |             |
| Rated short-time withstand current (kA rms)               | <b>Icw</b> | 0.5 s                   | 42 36 10                       |            |             | 42 36        |             |
| V AC 50/60 Hz   |            | 1 s                     | 42 36 -                        |            |             | 42 36        |             |
|   |            | 3 s                     | 24 20 -                        |            |             | 24 20        |             |
| Integrated instantaneous protection (kA peak ±10 %)       |            |                         | - 90 10xIn <sup>(3)</sup>      |            |             | - 90         |             |
| Rated making capacity (kA peak)                           | <b>Icm</b> | 220/415 V               | 88 105 330                     |            |             | 88 105       |             |
| V AC 50/60 Hz   |            | 440 V                   | 88 105 286                     |            |             | 88 105       |             |
|   |            | 525 V                   | 88 88 220                      |            |             | 88 88        |             |
|   |            | 690 V                   | 88 88 52                       |            |             | 88 88        |             |
| Break time (ms) between tripping order and arc extinction |            |                         | 25 25 9                        |            |             | 25 25        |             |
| Closing time (ms)   |            |                         | < 50                           |            |             | < 50         |             |

## Circuit breaker characteristics as per NEMA AB1

|                        |       |           |       |
|------------------------|-------|-----------|-------|
| Breaking capacity (kA) | 240 V | 42 50 150 | 42 50 |
| V AC 50/60 Hz          | 480 V | 42 50 100 | 42 50 |
|                        | 600 V | 42 42 25  | 42 42 |

## Switch-disconnector characteristics as per IEC 60947-3 and Annex A

|   |            |           | HA | HA |
|---|------------|-----------|----|----|
| <b>Type of switch-disconnector</b>  |            |           |    |    |
| Rated making capacity (kA peak)   | <b>Icm</b> | 220 V     | 75 | 75 |
| <b>AC23A/AC3 category</b> - V AC 50/60 Hz   |            | 440 V     | 75 | 75 |
|   |            | 525/690 V | 75 | 75 |
| Rated short-time withstand current (kA rms)   | <b>Icw</b> | 0.5 s     | 36 | 36 |
| <b>AC23A/AC3 category</b> - V AC 50/60 Hz   |            | 1 s       | 36 | 36 |
|   |            | 3 s       | 20 | 20 |
| Ultimate breaking capacity Icu (kA rms) with an external protection relay<br>Maximum time delay: 350 ms |            | 690 V     | 36 | 36 |

## Mechanical and electrical durability as per IEC 60947-2/3 at In/Ie

|   |               |                           |   |
|---|---------------|---------------------------|---|
| Service life  | Mechanical    | without maintenance       | 12.5  |
| C/O cycles x 1000                                     |               |                           |   |
| <b>Type of circuit breaker</b>                        |               |                           | <b>H1 H2 L1</b>                                   |
| <b>Rated current</b>                                  | <b>In (A)</b> |                           | <b>630 800 1000 1250 1600</b>                     |
| C/O cycles x 1000                                     | Electrical    | without maintenance       | 6 6 3 6 6 3 6 6 3 6 6 3 6 6 3                     |
| IEC 60947-2   |               | 440 V <sup>(4)</sup>      | 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2                     |
|   |               | 690 V                     | 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2                     |
| <b>Type of circuit breaker or switch-disconnector</b> |               |                           | <b>H1/H2/HA</b>                                   |
| <b>Rated operational current</b>                      | <b>Ie (A)</b> | <b>AC23A</b>              | <b>630 800 1000 1250 1600</b>                     |
| C/O cycles x 1000                                     | Electrical    | without maintenance       | 6 6 3 6 6 3 6 6 3 6 6 3 6 6 3                     |
| IEC 60947-3   |               | 440 V <sup>(4)</sup>      | 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2                     |
|   |               | 690 V                     | 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2                     |
| <b>Type of circuit breaker or switch-disconnector</b> |               |                           | <b>H1/H2/HA</b>                                   |
| <b>Rated operational current</b>                      | <b>Ie (A)</b> | <b>AC3</b> <sup>(5)</sup> | <b>500 630 800 1000 1000</b>                      |
| Motor power (kW)                                      |               | 380/415 V                 | ≤ 250 250 to 335 335 to 450 450 to 560 450 to 560 |
|   |               | 440 V                     | ≤ 300 300 to 400 400 to 500 500 to 630 500 to 630 |
| C/O cycles x 1000                                     | Electrical    | without maintenance       | 6 6 3 6 6 3 6 6 3 6 6 3 6 6 3                     |
| IEC 60947-3 Annex M/IEC 60947-4-1                     |               | 440 V <sup>(4)</sup>      | 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2                     |
|   |               | 690 V                     | 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2                     |

(1) 50 °C: rear vertical connected. Refer to temperature derating tables for other connection types.

(2) See the current-limiting curves in the "additional characteristics" section.

(3) SELIM system.

(4) Available for 480 V NEMA.

(5) Suitable for motor control (direct-on-line starting).



# Circuit breakers and switch-disconnectors

NW08 to NW63

## Common characteristics

|   |             |                         |
|---|-------------|-------------------------|
| Number of poles                           |             | 3/4                     |
| Rated insulation voltage (V)              | <b>Ui</b>   | 1000/1250               |
| Impulse withstand voltage (kV)            | <b>Uimp</b> | 12                      |
| Rated operational voltage (V AC 50/60 Hz) | <b>Ue</b>   | 690/1150                |
| Suitability for isolation                 | IEC 60947-2 |                         |
| Degree of pollution                       | IEC 60664-1 | 4 (1000 V) / 3 (1250 V) |

## Circuit breaker characteristics as per IEC 60947-2

|                        |  |                                 |
|------------------------|--|---------------------------------|
| Rated current (A)      |  | at 40 °C / 50 °C <sup>(1)</sup> |
| Rating of 4th pole (A) |  |                                 |
| Sensor ratings (A)     |  |                                 |

## Type of circuit breaker

|   |            |   |
|---|------------|---|
| Ultimate breaking capacity (kA rms)<br>V AC 50/60 Hz  | <b>Icu</b> | 220/415/440 V<br>525 V<br>690 V<br>1150 V |
| Rated service breaking capacity (kA rms)<br>Utilisation category  | <b>Ics</b> | % Icu                                     |
| Rated short-time withstand current (kA rms)<br>V AC 50/60 Hz  | <b>Icw</b> | 1 s<br>3 s                                |
| Integrated instantaneous protection (kA peak ±10 %)<br>Rated making capacity (kA peak)<br>V AC 50/60 Hz | <b>Icm</b> | 220/415/440 V<br>525 V<br>690 V<br>1150 V |
| Break time (ms) between tripping order and arc extinction   |            |   |
| Closing time (ms)   |            |   |

## Circuit breaker characteristics as per NEMA AB1

|   |  |                    |
|---|--|--------------------|
| Breaking capacity (kA)<br>V AC 50/60 Hz |  | 240/480 V<br>600 V |
|---|--|--------------------|

## Unprotected circuit breaker characteristics:

### Tripping by shunt trip as per IEC 60947-2

#### Type of circuit breaker

|   |            |             |
|---|------------|-------------|
| Ultimate breaking capacity (kA rms) V AC 50/60 Hz | <b>Icu</b> | 220...690 V |
| Rated service breaking capacity (kA rms)          | <b>Ics</b> | % Icu       |
| Rated short-time withstand current (kA rms)       | <b>Icw</b> | 1 s<br>3 s  |

Overload and short-circuit protection with external protection relay:  
short-circuit protection, maximum delay: 350 ms<sup>(4)</sup>

|   |            |             |
|---|------------|-------------|
| Rated making capacity (kA peak) V AC 50/60 Hz | <b>Icm</b> | 220...690 V |
|---|------------|-------------|

## Switch-disconnector characteristics as per IEC 60947-3 and Annex A

### Type of switch-disconnector

|  |            |                       |
|--|------------|-----------------------|
| Rated making capacity (kA peak)<br><b>AC23A/AC3 category</b> - V AC 50/60 Hz             | <b>Icm</b> | 220...690 V<br>1150 V |
| Rated short-time withstand current (kA rms)<br><b>AC23A/AC3 category</b> - V AC 50/60 Hz | <b>Icw</b> | 1 s<br>3 s            |

## Earthing switch

|                                      |            |            |
|--------------------------------------|------------|------------|
| Latching capacity (kA peak)          |            | 135        |
| Rating short time withstand (kA rms) | <b>Icw</b> | 1 s<br>3 s |

## Mechanical and electrical durability as per IEC 60947-2/3 at In/Ie

|   |            |                     |   |
|---|------------|---------------------|---|
| Service life  | Mechanical | with maintenance    |   |
| C/O cycles x 1000                                     |            | without maintenance |   |
| <b>Type of circuit breaker</b>                        |            |                     |   |
| <b>Rated current</b>                                  |            |                     | <b>In (A)</b>   |
| C/O cycles x 1000                                     | Electrical | without maintenance | 440 V <sup>(5)</sup>  |
| IEC 60947-2   |            |                     | 690 V<br>1150 V   |
| <b>Type of circuit breaker or switch-disconnector</b> |            |                     |   |
| <b>Rated operational current</b>                      |            |                     | <b>Ie (A)</b>   |
| C/O cycles x 1000                                     | Electrical | without maintenance | <b>AC23A</b><br>440 V <sup>(5)</sup>  |
| IEC 60947-3   |            |                     | 690 V   |
| <b>Type of circuit breaker or switch-disconnector</b> |            |                     |   |
| <b>Rated operational current</b>                      |            |                     | <b>Ie (A)</b>   |
| Motor power   |            |                     | <b>AC3<sup>(6)</sup></b><br>380/415 V (kW)<br>440 V <sup>(5)</sup> (kW)<br>690 V (kW) |
| C/O cycles x 1000                                     | Electrical | without maintenance | 440/690 V <sup>(5)</sup>  |
| IEC 60947-3 Annex M/IEC 60947-4-1                     |            |                     |   |

(1) 50 °C: rear vertical connected. Refer to temperature derating tables for other connection types. (2) See the current-limiting curves in the "additional characteristics" section. (3) Equipped with a trip unit with a making current. (4) Available for 480 V NEMA. (5) Suitable for motor control (direct-on-line starting).

### Sensor selection

|                          |                    |               |               |               |                |                |                |                |                 |                 |                 |                 |                 |
|--------------------------|--------------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Sensor rating (A)        | 250 <sup>(1)</sup> | 400           | 630           | 800           | 1000           | 1250           | 1600           | 2000           | 2500            | 3200            | 4000            | 5000            | 6300            |
| Ir threshold setting (A) | 100<br>to 250      | 160<br>to 400 | 250<br>to 630 | 320<br>to 800 | 400<br>to 1000 | 500<br>to 1250 | 630<br>to 1600 | 800<br>to 2000 | 1000<br>to 2500 | 1250<br>to 3200 | 1600<br>to 4000 | 2000<br>to 5000 | 2500<br>to 6300 |

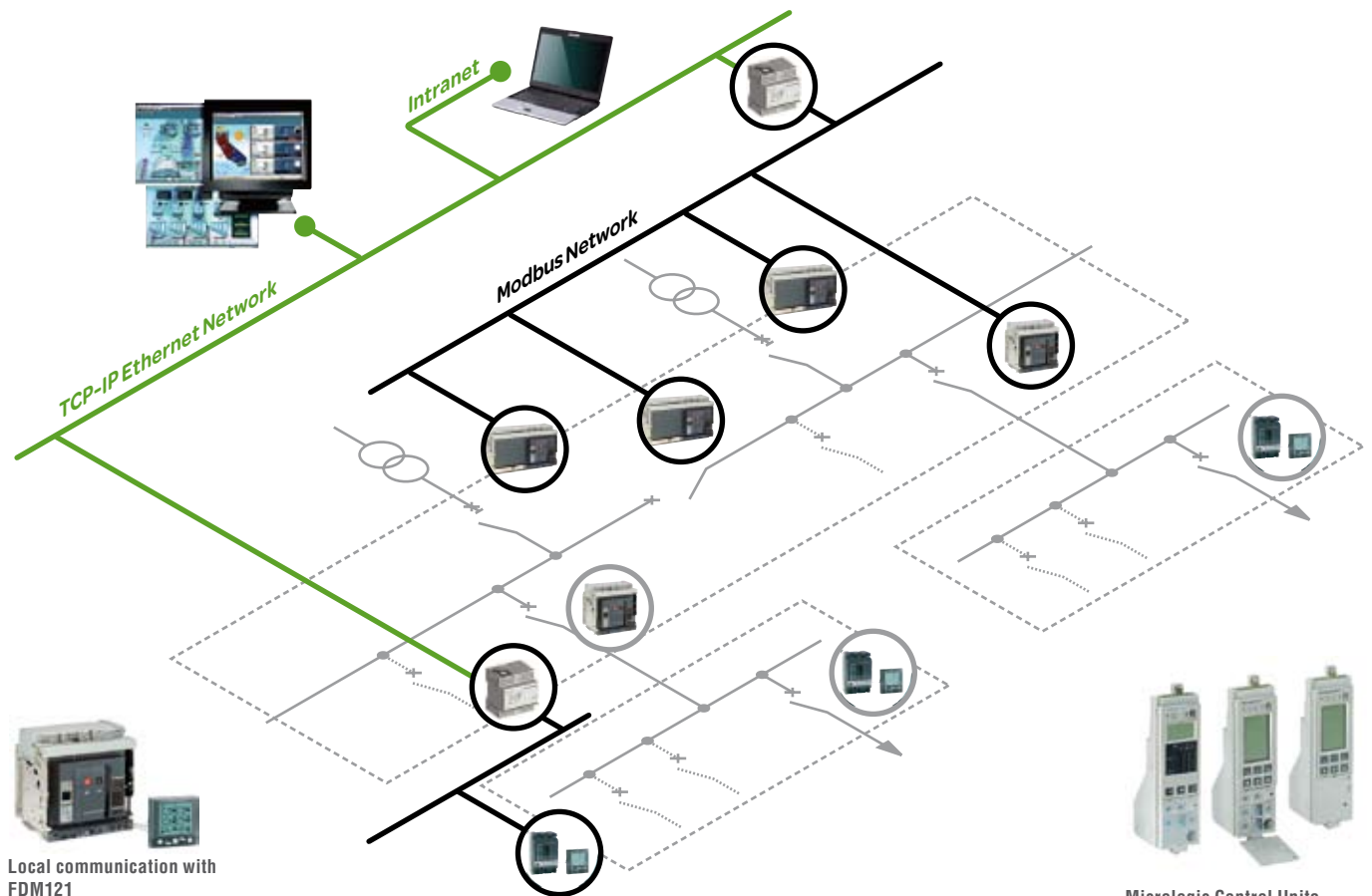
(1) For NW02 rating, please consult us.

| NW08                 | NW10           | NW12           | NW16              |                   | NW20            |      |              |                   |       | NW25              | NW32            | NW40            |                 | NW40b           | NW50            | NW63            |
|----------------------|----------------|----------------|-------------------|-------------------|-----------------|------|--------------|-------------------|-------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 800                  | 1000           | 1250           | 1600              |                   | 2000            |      |              |                   |       | 2500              | 3200            | 4000            |                 | 4000            | 5000            | 6300            |
| 800                  | 1000           | 1250           | 1600              |                   | 2000            |      |              |                   |       | 2500              | 3200            | 4000            |                 | 4000            | 5000            | 6300            |
| 400<br>to 800        | 400<br>to 1000 | 630<br>to 1250 | 800<br>to 1600    |                   | 1000<br>to 2000 |      |              |                   |       | 1250<br>to 2500   | 1600<br>to 3200 | 2000<br>to 4000 |                 | 2000<br>to 4000 | 2500<br>to 5000 | 3200<br>to 6300 |
| N1                   | H1             | H2             | L1 <sup>(2)</sup> | H10               | H1              | H2   | H3           | L1 <sup>(2)</sup> | H10   | H1                | H2              | H3              | H10             | H1              | H2              |                 |
| 42                   | 65             | 100            | 150               | -                 | 65              | 100  | 150          | 150               | -     | 65                | 100             | 150             | -               | 100             | 150             |                 |
| 42                   | 65             | 85             | 130               | -                 | 65              | 85   | 130          | 130               | -     | 65                | 85              | 130             | -               | 100             | 130             |                 |
| 42                   | 65             | 85             | 100               | -                 | 65              | 85   | 100          | 100               | -     | 65                | 85              | 100             | -               | 100             | 100             |                 |
| -                    | -              | -              | -                 | 50                | -               | -    | -            | -                 | 50    | -                 | -               | -               | 50              | -               | -               |                 |
| 100%                 |                |                |                   |                   | 100%            |      |              |                   |       | 100%              |                 |                 |                 | 100%            |                 |                 |
| B                    |                |                |                   |                   | B               |      |              |                   |       | B                 |                 |                 |                 | B               |                 |                 |
| 42                   | 65             | 85             | 30                | 50                | 65              | 85   | 65           | 30                | 50    | 65                | 85              | 65              | 50              | 100             | 100             |                 |
| 22                   | 36             | 50             | 30                | 50                | 36              | 75   | 65           | 30                | 50    | 65                | 75              | 65              | 50              | 100             | 100             |                 |
| -                    | -              | 190            | 80                | -                 | -               | 190  | 150          | 80                | -     | -                 | 190             | 150             | -               | -               | 270             |                 |
| 88                   | 143            | 220            | 330               | -                 | 143             | 220  | 330          | 330               | -     | 143               | 220             | 330             | -               | 220             | 330             |                 |
| 88                   | 143            | 187            | 286               | -                 | 143             | 187  | 286          | 286               | -     | 143               | 187             | 286             | -               | 220             | 286             |                 |
| 88                   | 143            | 187            | 220               | -                 | 143             | 187  | 220          | 220               | -     | 143               | 187             | 220             | -               | 220             | 220             |                 |
| -                    | -              | -              | -                 | 105               | -               | -    | -            | -                 | 105   | -                 | -               | -               | 105             | -               | -               |                 |
| 25                   | 25             | 25             | 10                | 25                | 25              | 25   | 25           | 10                | 25    | 25                | 25              | 25              | 25              | 25              | 25              |                 |
| < 70                 |                |                |                   |                   | < 70            |      |              |                   |       | < 70              |                 |                 |                 | < 80            |                 |                 |
| 42                   | 65             | 100            | 150               | -                 | 65              | 100  | 150          | 150               | -     | 65                | 100             | 150             | -               | 100             | 150             |                 |
| 42                   | 65             | 85             | 100               | -                 | 65              | 85   | 100          | 100               | -     | 65                | 85              | 100             | -               | 100             | 100             |                 |
| HA                   |                |                |                   | HF <sup>(3)</sup> |                 | HA   |              |                   |       | HF <sup>(3)</sup> |                 | HA              |                 |                 |                 |                 |
| 50                   |                |                |                   | 85                |                 | 50   |              |                   |       | 85                |                 | 55              |                 |                 |                 |                 |
| 100%                 |                |                |                   | 100%              |                 | 100% |              |                   |       | 100%              |                 | 100%            |                 |                 |                 |                 |
| 50                   |                |                |                   | 85                |                 | 50   |              |                   |       | 85                |                 | 55              |                 |                 |                 |                 |
| 36                   |                |                |                   | 50                |                 | 36   |              |                   |       | 75                |                 | 55              |                 |                 |                 |                 |
| -                    |                |                |                   | -                 |                 | -    |              |                   |       | -                 |                 | -               |                 |                 |                 |                 |
| 105                  |                |                |                   | 187               |                 | 105  |              |                   |       | 187               |                 | 121             |                 |                 |                 |                 |
| NW08/NW10/NW12/ NW16 |                |                |                   |                   | NW20            |      |              |                   |       | NW25/NW32/NW40    |                 |                 | NW40b/NW50/NW63 |                 |                 |                 |
| NA                   | HA             | HF             | HA10              |                   | HA              | HF   | HA10         | HA                | HF    | HA10              | HA              | HF              | HA10            | HA              |                 |                 |
| 88                   | 105            | 187            | -                 |                   | 105             | 187  | -            | 121               | 187   | -                 | 187             |                 |                 | 187             |                 |                 |
| -                    | -              | -              | 105               |                   | -               | -    | 105          | -                 | -     | 105               | -               | -               | 105             | -               |                 |                 |
| 42                   | 50             | 85             | 50                |                   | 50              | 85   | 50           | 55                | 85    | 50                | 85              |                 |                 | 85              |                 |                 |
| -                    | 36             | 50             | 50                |                   | 36              | 50   | 50           | 55                | 75    | 50                | 85              |                 |                 | 85              |                 |                 |
| 60 Hz                |                |                |                   |                   | 50 Hz           |      |              |                   |       |                   |                 |                 |                 |                 |                 |                 |
| 25                   |                |                |                   |                   | 20              |      |              |                   |       | 10                |                 |                 |                 |                 |                 |                 |
| 12.5                 |                |                |                   |                   | 10              |      |              |                   |       | 5                 |                 |                 |                 |                 |                 |                 |
| N1/H1/H2             | L1             | H10            |                   |                   | H1/H2           | H3   | L1           | H10               | H1/H2 | H3                | H10             | H1              | H2              |                 |                 |                 |
| 800/1000/1250/1600   |                |                |                   |                   | 2000            |      |              |                   |       | 2500/3200/4000    |                 |                 | 4000b/5000/6300 |                 |                 |                 |
| 10                   | 3              | -              |                   |                   | 8               | 2    | 3            | -                 | 5     | 1.25              | -               | 1.5             | 1.5             |                 |                 |                 |
| 10                   | 3              | -              |                   |                   | 6               | 2    | 3            | -                 | 2.5   | 1.25              | -               | 1.5             | 1.5             |                 |                 |                 |
| -                    | -              | 0.5            |                   |                   | -               | -    | -            | 0.5               | -     | -                 | 0.5             | -               | -               |                 |                 |                 |
| H1/H2/HA/HF          |                |                |                   |                   | H1/H2/H3/HA/HF  |      |              |                   |       | H1/H2/HA          |                 |                 |                 |                 |                 |                 |
| 800/1000/1250/1600   |                |                |                   |                   | 2000            |      |              |                   |       | 2500/3200/4000    |                 |                 | 4000b/5000/6300 |                 |                 |                 |
| 10                   |                |                |                   |                   | 8               |      |              |                   |       | 5                 |                 |                 | 1.5             |                 |                 |                 |
| 10                   |                |                |                   |                   | 6               |      |              |                   |       | 2.5               |                 |                 | 1.5             |                 |                 |                 |
| H1/H2/HA/HF          |                |                |                   |                   | H1/H2/H3/HA/HF  |      |              |                   |       |                   |                 |                 |                 |                 |                 |                 |
| 800                  |                | 1000           |                   | 1250              | 1600            |      | 2000         |                   |       |                   |                 |                 |                 |                 |                 |                 |
| 335 to 450           |                | 450 to 560     |                   | 560 to 670        | 670 to 900      |      | 900 to 1150  |                   |       |                   |                 |                 |                 |                 |                 |                 |
| 400 to 500           |                | 500 to 630     |                   | 500 to 800        | 800 to 1000     |      | 1000 to 1300 |                   |       |                   |                 |                 |                 |                 |                 |                 |
| ≤ 800                |                | 800 to 1000    |                   | 1000 to 1250      | 1250 to 1600    |      | 1600 to 2000 |                   |       |                   |                 |                 |                 |                 |                 |                 |
| 6                    |                |                |                   |                   |                 |      |              |                   |       |                   |                 |                 |                 |                 |                 |                 |

ent of 90 kA peak. (4) External protection must comply with permissible thermal constraints of the circuit breaker (please consult us). No fault-trip indication by the SDE or the reset button.

# Monitoring and protecting your low voltage network

Masterpact can be integrated in a general supervision system to optimise your electrical installation.



## Local communication with FDM121

All Masterpact NT / NW circuit breakers can be connected to a high-visibility FDM121 front display module. Maintenance personnel will have convenient access to all data directly from the panel of the electrical cabinet.



## Micrologic Control Units

All Masterpact are equipped with a Micrologic electronic control unit that offers a complete set of protections and state of the art measurements.

## Ensuring safety at any time

All Masterpact are equipped with a Micrologic electronic control unit that offers all types of current and advanced protection, measurement and communication. Protection functions are separated from the measurement functions and are managed by an ASIC electronic component. This independence guarantees immunity from conducted or radiated disturbances and ensures the highest degree of reliability.

## Optimising the management of your electrical installation

When equipped with a Micrologic types E, P or H, Masterpact can be integrated in a general supervision system to optimise installation operation and maintenance. Alarms may be programmed for remote indications. Used with PowerLogic ION Enterprise software, you can exploit the electrical data (current, voltage, energy, frequency, power, and power quality) to optimise continuity of service and energy management:

- reduce energy and operations costs;
- improve power quality, reliability and uptime;
- optimise equipment use.

## Maximising continuity of service

Because a LV power supply interruption is unacceptable especially in critical power applications, an automatic system is required for LV transfer switching. For your peace of mind, Masterpact enables automatic control and management of power sources in your low voltage distribution network guaranteeing the hi-reliability of your installation.



## EGX300 gateway-server or iRIO RTU

The EGX300 web-enabled gateway-server or the iRIO RTU (remote terminal unit) can both be used as Ethernet coupler for the PowerLogic System devices and for any other communicating devices operating under Modbus RS485 protocol. Data is viewable via a standard web browser.

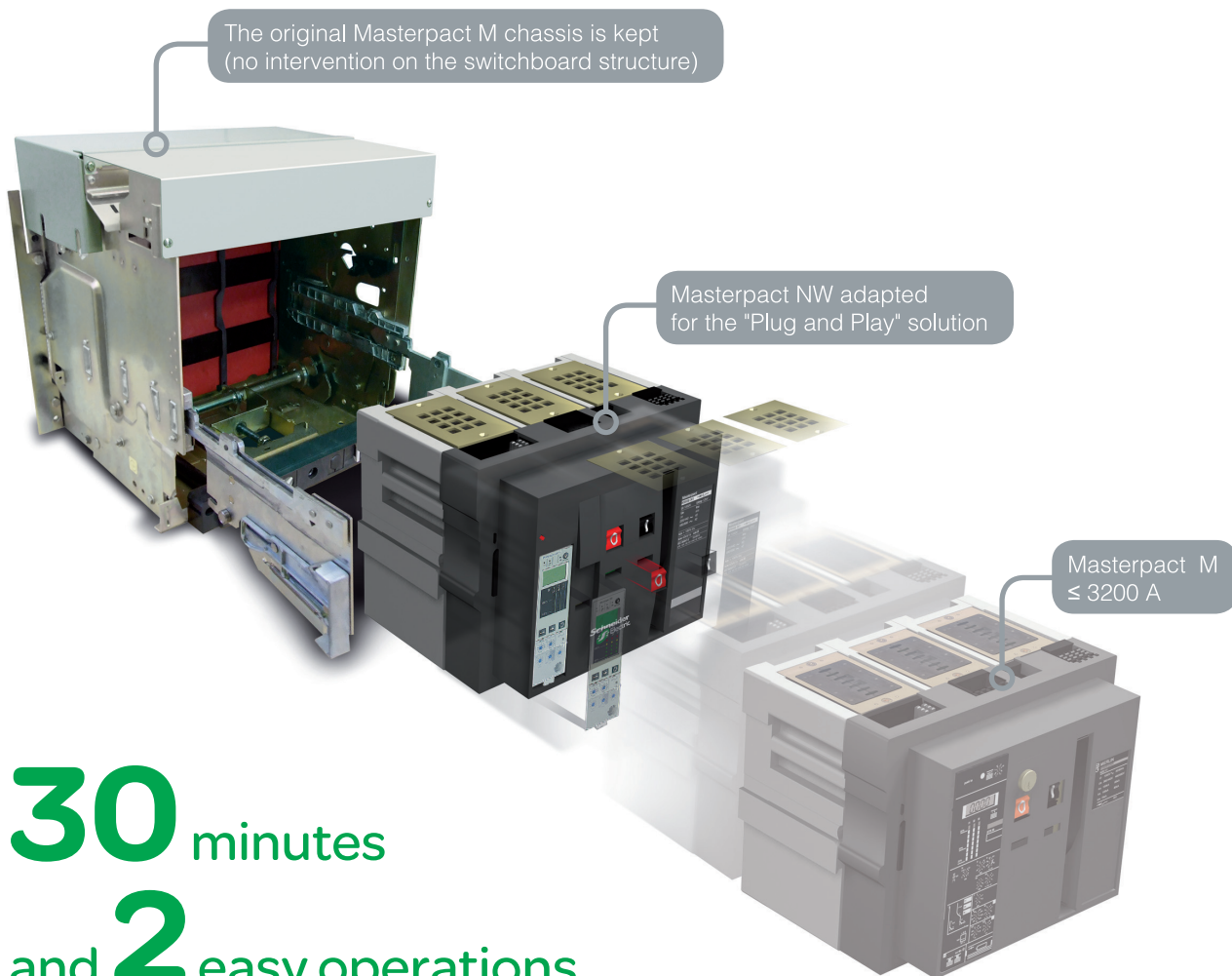


## PowerLogic ION Enterprise

PowerLogic ION Enterprise software is a complete power management solution for your facility or plant operations. It can be connected to Masterpact through Ethernet/Modbus protocol.

# "Plug and Play" retrofit solution

Schneider Electric proposes a fast and simple implementation with considerably reducing on-site intervention time and get the performance of last generation device.



The retrofit solutions use a factory modified and adapted Masterpact NW which is installed in the Masterpact M's original chassis.



For more information visit our website at [www.schneider-electric.co.in](http://www.schneider-electric.co.in)  
Schneider Electric India Pvt. Ltd. (A 100% subsidiary of Schneider Electric Industries SAS)  
Corporate Office: 9th Floor, DLF Building No. 10, Tower C, DLF Cyber City, Phase II,  
Gurgaon - 122002, Haryana, Tel: 0124 3940400, Fax: 0124 4222036  
Customer Care Centre: Toll-free numbers: 1800 180 1707, 1800 103 0011,  
General number: 0124 4222040, Email: [in-care@in.schneider-electric.com](mailto:in-care@in.schneider-electric.com)