



**TYPE APPROVAL CERTIFICATE**  
No. ELE107025CS/001

**This is to certify** that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	<b>Air Circuit Breaker</b>
<i>Type</i>	<b>MasterPacT Series</b> <b>MTZ1 : type H1, H2, H3, L1 (*)(**)</b> <b>MTZ1 : type HA Unprotected Circuit breakers</b> <b>MTZ2 : type N1, N2, H1, H1b, H2, H2V, H3, L1, (*)(**)</b> <b>MTZ2 : type HF Unprotected Circuit-breakers</b> <b>MTZ2 : type HH Unprotected Circuit-breakers</b> <b>MTZ2 : type HA Unprotected Circuit-breakers</b> <b>MTZ3 : type H1, H2 (*)(**)</b> <b>MTZ3 : type HA Unprotected Circuit-breakers</b> <b>(*) Equipped with MicroLogic X Control Units: 2.0 X, 5.0 X, 6.0X</b> <b>(**) Equipped with MicroLogic Active Control Units: 2.0 A - 5.0 A - 6.0 A - 2.0 E - 5.0 E - 6.0 E - 2.0 AP - 5.0 AP - 6.0 AP - 2.0 EP - 5.0 EP - 6.0 EP (Not applicable for type MTZ1 H3,L1, and MTZ2 H3, L1, H2V)</b>
<i>Applicant</i>	<b>SCHNEIDER ELECTRIC INDUSTRIES SAS</b> <b>35 Rue Joseph Monier</b> <b>92500 Rueil Malmaison</b> <b>FRANCE</b>
<i>Manufacturer</i>	<b>SCHNEIDER ELECTRIC ALPES</b>
<i>Place of manufacture</i>	<b>Rue Isaac Newton</b> <b>73800 Porte-de-Savoie</b> <b>FRANCE</b>
<i>Reference standards</i>	<b>IEC 60947-2:2016 + AMD1:2019; RINA Rules for the Classification of Ships Part C, - Machinery , Systems and Fire Protection - Ch. 3; Sect. 8; Tab. 1</b>

*Issued in* **Genoa** on **March 25, 2025**. *This Certificate is valid until* **March 25, 2030**

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**RINA Services S.p.A.**  
**Luigi Benedetti**

This certificate consists of this page and 1 enclosure

**TYPE APPROVAL CERTIFICATE**

No. **ELE107025CS/001**

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**MasterPacT Series**

**MTZ1 : type H1, H2, H3, L1 (\*)(\*\*)**

**MTZ1 : type HA Unprotected Circuit breakers**

**MTZ2 : type N1, N2, H1, H1b, H2, H2V, H3, L1, (\*)(\*\*)**

**MTZ2 : type HF Unprotected Circuit-breakers**

**MTZ2 : type HH Unprotected Circuit-breakers**

**MTZ2 : type HA Unprotected Circuit-breakers**

**MTZ3 : type H1, H2 (\*)(\*\*)**

**MTZ3 : type HA Unprotected Circuit-breakers**

(\*) Equipped with MicroLogic X Control Units: 2.0 X, 5.0 X, 6.0X

(\*\*) Equipped with MicroLogic Active Control Units: 2.0 A - 5.0 A - 6.0 A - 2.0 E - 5.0 E - 6.0 E - 2.0 AP - 5.0 AP - 6.0 AP - 2.0 EP - 5.0 EP - 6.0 EP (Not applicable for type MTZ1 H3,L1, and MTZ2 H3, L1, H2V)

... Air Circuit Breakers - Structure designation:

MTZ1 H1, H2, H3, L1; MTZ2 N1, N2, H1, H1b, H2, H2V, H3, L1; MTZ3 H1, H2

MTZ	2	32	H1
	I	III	IV

I Indicates the breaker Line

II Indicates the frame size

III Indicates the current rating (x100)

IV Indicates the performance levels:

N1, N2 indicates Normal types

H1, H1B, H2, H2V, H3 indicates Heavy duty types

L1 indicates current Limiting types

Masterpact MTZ1 type H1 and H2

Rating and main characteristics:

Type H1	Type H1 Rated current In (A)	Type H2	Rated current In (A)
MTZ1-06 H1	400 to 630 A	MTZ1-06 H2	400 to 630 A
MTZ1-08 H1	400 to 800 A	MTZ1-08 H2	400 to 800 A
MTZ1-10 H1	400 to 1000	MTZ1-10 H2	400 to 1000 A
MTZ1-12 H1	630 (1) to 1250 A	MTZ1-12 H2	630 (1) to 1250 A
MTZ1-16 H1	800 (1) to 1600 A	MTZ1-16 H2	800 (1) to 1600 A

(1) 400A with MicroLogic Active control unit equipped on MasterPacT MTZ1 H1-H2

Selectivity category	B
Interruption medium	Air
Design	Moulded case
Method of controlling	Store energy operation
Suitability for insulation	Suitable
Provision for maintenance	Maintainable
Method of installation	Fixed or withdrawable
Type of release	Electronic Micrologic X: 2.0 X - 5.0 X - 6.0 X MicroLogic Active: 2.0 A - 5.0 A - 6.0 A - 2.0 E - 5.0 E - 6.0 E - 2.0 AP - 5.0 AP - 6.0 AP - 2.0 EP - 5.0 EP - 6.0 EP
Circuit breaker for use on IT Systems	Yes
Rated operational voltage, Ue (V)	Ue (V) 220 up to 690V
Rated insulation voltage, Ui (V)	Ui (V) 1000 V
Rated impulse withstand voltage, Uimp (kV)	Uimp (kV) 12 kV
Nature of supply	AC
Rated frequency (Hz)	50/60 Hz
Total number of poles	3 or 4
Rated ultimate short-circuit breaking capacity, Icu (kA)	H1 : 42 kA - 220/415/440/525/690V H2 : 50 kA - 220/415/440V 42 kA - 525/690V
Rated service short-circuit breaking capacity, Ics (kA)	H1 : 42 kA - 220/415/440/525/690V H2 : 50 kA - 220/415/440V 42 kA - 525/690V
Rated short-time withstand current, Icw (kA/s)	H1 : 42 kA / 1s; 24 kA/3s H2 : 42 kA / 1s; 24 kA/3s
Rated individual pole short circuit current Irr (kA)	H1: 19,2 kA H2: 19,2 kA

Masterpact MTZ1 type H3

Rating and main characteristics:

Type H3	Rated current In (A)
MTZ1-06 H3	400 to 630 A
MTZ1-08 H3	400 to 800 A
MTZ1-10 H3	400 to 1000
MTZ1-12 H3	630 to 1250 A
MTZ1-16 H3	800 to 1600 A

Selectivity category	B
Interruption medium	Air
Design	Moulded case
Method of controlling	Store energy operation
Suitability for insulation	Suitable
Provision for maintenance	Maintainable
Method of installation	Fixed or withdrawable
Type of release	Electronic Micrologic X: 2.0 X - 5.0 X - 6.0 X
Circuit breaker for use on IT Systems	Yes
Rated operational voltage, Ue (V)	220, 415, 440 V
Rated insulation voltage, Ui (V)	1000 V
Rated impulse withstand voltage, Uimp (kV)	12 kV
Nature of supply	AC
Rated frequency (Hz)	50/60 Hz
Total number of poles	3 or 4
Rated ultimate short-circuit breaking capacity, Icu (kA)	66 kA - 220/415/440V
Rated service short-circuit breaking capacity, Ics (kA)	50 kA - 220/415/440V
Rated short-time withstand current, Icw (kA/s)	50 kA/1s 30 kA/3s
Rated individual pole short circuit current Irr (kA)	19,2 kA

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Masterpact MTZ1 type L1

Rating and main characteristics:

Type L1	Rated current I <sub>n</sub> (A)
MTZ1-06 L1	400 to 630 A
MTZ1-08 L1	400 to 800 A
MTZ1-10 L1	400 to 1000

Selectivity category	A
Interruption medium	Air
Design	Moulded case
Method of controlling	Store energy operation
Suitability for insulation	Suitable
Provision for maintenance	Maintainable
Method of installation	Fixed or withdrawable
Type of release	Electronic Micrologic X: 2.0 X - 5.0 X - 6.0 X
Circuit breaker for use on IT Systems	Yes
Rated operational voltage, U <sub>e</sub> (V)	220, 415, 440 V
Rated insulation voltage, U <sub>i</sub> (V)	1000 V
Rated impulse withstand voltage, U <sub>imp</sub> (kV)	12 kV
Nature of supply	AC
Rated frequency (Hz)	50/60 Hz
Total number of poles	3 or 4
Rated ultimate short-circuit breaking capacity, I <sub>cu</sub> (kA)	150 kA - 220/415V 130 kA - 220/440V 100 kA - 525V
Rated service short-circuit breaking capacity, I <sub>cs</sub> (kA)	150 kA - 220/415V 130 kA - 220/440V 100 kA - 525V
Rated individual pole short circuit current I <sub>rr</sub> (kA)	12 kA

Masterpact MTZ2 type N1,N2, H1

Rating and main characteristics:

Type N1	Rated current I <sub>n</sub> (A)	Type N2	Rated current I <sub>n</sub> (A)	Type H1	Rated current I <sub>n</sub> (A)
MTZ2-08 N1	400 to 800	MTZ2-08 N2	400 to 800	MTZ2-08 H1	400 to 630
MTZ2-10 N1	400 to 1000	MTZ2-10 N2	400 to 1000	MTZ2-10 H1	400 to 800
MTZ2-12 N1	630 (1) to 1250	MTZ2-12 N2	630 (1) to 1250	MTZ2-12 H1	630 (1) to 1250
MTZ2-16 N1	800 (1) to 1600	MTZ2-16 N2	800 (1) to 1600	MTZ2-16 H1	800 (1) to 1600
MTZ2-20 N1	1000 (1) to 2000	MTZ2-20 N2	1000 (1) to 2000	MTZ2-20 H1	1000 (1) to 2000
		MTZ2-25 N2	1250 to 2500	MTZ2-25 H1	1250 to 2500
				MTZ2-32 H1	1600 (2) to 3200
				MTZ2-40 H1	2000 (2) to 4000

- (1) 400A with MicroLogic Active control unit
- (2) 1250A with MicroLogic Active control unit

Selectivity category	B
Interruption medium	Air
Design	Moulded case
Method of controlling	Store energy operation
Suitability for insulation	Suitable
Provision for maintenance	Maintainable
Method of installation	Fixed or withdrawable
Type of release	Electronic Micrologic X: 2.0 X - 5.0 X - 6.0 X MicroLogic Active: 2.0 A - 5.0 A - 6.0 A - 2.0 E - 5.0 E - 6.0 E - 2.0 AP - 5.0 AP - 6.0 AP - 2.0 EP - 5.0 EP - 6.0 EP
Circuit breaker for use on IT Systems	Yes
Rated operational voltage, Ue (V)	220 up to 690V
Rated insulation voltage, Ui (V)	1000 V
Rated impulse withstand voltage, Uimp (kV)	12 kV
Nature of supply	AC
Rated frequency (Hz)	50/60 Hz
Total number of poles	3 or 4
Rated ultimate short-circuit breaking capacity, Icu (kA)	N1 : 42 kA - 220/415/440/525/690V N2 : 50 kA - 220/415/440/525/690V H1 : 66 kA - 220/415/440/525/690V
Rated service short-circuit breaking capacity, Ics (kA)	N1 : 42 kA - 220/415/440/525/690V N2 : 50 kA - 220/415/440/525/690V H1 : 66 kA - 220/415/440/525/690V
Rated short-time withstand current, Icw (kA/s)	N1: 42 kA / 1s ; 22kA / 3s N2: 50 kA / 1s H1: 66 kA / 1s and 36kA / 3s (for ratings ≤ 2000A) H1: 66 kA / 3s (for rating ≥ 2500A)
Rated individual pole short circuit current Irr (kA)	N1 : 24kA N2 : 24 kA for rating ≤ 2000A; 50 kA for rating ≤ 2500A H1 : 24 kA for rating ≤ 2000A; 50 kA for rating ≤ 2500A

Masterpact MTZ2 type H1b, H2

Rating and main characteristics:

Type H1b	Rated current In (A)	Type H2	Rated current In (A)
MTZ2-08 H1b	400 to 800	MTZ2-08 H2	400 to 800
MTZ2-10 H1b	400 to 1000	MTZ2-10 H2	400 to 1000
MTZ2-12 H1b	630 (1) to 1250	MTZ2-12 H2	630 (1) to 1250
MTZ2-16 H1b	800 (1) to 1600	MTZ2-16 H2	800 (1) to 1600
MTZ2-20 H1b	1000 (1) to 2000	MTZ2-20 H2	1000 (1) to 2000
MTZ2-25 H1b	1250 to 2500	MTZ2-25 H2	1250 to 2500
MTZ2-32 H1b	1600 (2) to 3200	MTZ2-32 H2	1600 (2) to 3200
MTZ2-40 H1b	2000 (2) to 4000	MTZ2-40 H2	2000 (2) to 4000

- (1) 400A with MicroLogic Active control unit  
(2) 1250A with MicroLogic Active control unit

Selectivity category	B
Interruption medium	Air
Design	Moulded case
Method of controlling	Store energy operation
Suitability for insulation	Suitable
Provision for maintenance	Maintainable
Method of installation	Fixed or withdrawable
Type of release	Electronic Micrologic X: 2.0 X - 5.0 X - 6.0 X MicroLogic Active: 2.0 A - 5.0 A - 6.0 A - 2.0 E - 5.0 E - 6.0 E - 2.0 AP - 5.0 AP - 6.0 AP - 2.0 EP - 5.0 EP - 6.0 EP
Circuit breaker for use on IT Systems	Yes
Rated operational voltage, Ue (V)	220 up to 690V
Rated insulation voltage, Ui (V)	1000 V
Rated impulse withstand voltage, Uimp (kV)	12 kV
Nature of supply	AC
Rated frequency (Hz)	50/60 Hz
Total number of poles	3 or 4
Rated ultimate short-circuit breaking capacity, Icu (kA)	H1b: 85 kA - 220/415/440/525/690V H2: 100 kA - 220/415/440 V 85 kA - 525/690 V
Rated service short-circuit breaking capacity, Ics (kA)	H1b : 85 kA - 220/415/440/525/690V H2: 100 kA - 220/415/440 V 85 kA - 525/690 V
Rated short-time withstand current, Icw (kA/s)	H1b: 85 kA / 1s H2: 85 kA/1s from 800 A to 4000 A 50 kA/3s for rating ≤ 1600 A 75 kA/3s for rating ≥ 2000 A
Rated individual pole short circuit current Irr (kA)	H1b : 50 kA H2 : 50 kA

Masterpact MTZ2 type H3  
Rating and main characteristics:

Type H3	Rated current In (A)
MTZ2-20 H3	1000 to 2000
MTZ2-25 H3	1250 to 2500
MTZ2-35 H3	1600 to 3200
MTZ2-40 H3	2000 to 3000

Selectivity category	B
Interruption medium	Air
Design	Moulded case
Method of controlling	Store energy operation
Suitability for insulation	Suitable
Provision for maintenance	Maintainable
Method of installation	Withdrawable
Type of release	Electronic Micrologic X: 2.0 X - 5.0 X - 6.0 X
Circuit breaker for use on IT Systems	Yes
Rated operational voltage, Ue (V)	220 up to 690V
Rated insulation voltage, Ui (V)	1000 V
Rated impulse withstand voltage, Uimp (kV)	12 kV
Nature of supply	AC
Rated frequency (Hz)	50/60 Hz
Total number of poles	3 or 4
Rated ultimate short-circuit breaking capacity, Icu (kA)	150 kA - 220/415/440 V 130 kA - 525 V 100 kA - 690V
Rated service short-circuit breaking capacity, Ics (kA)	150 kA - 220/415/440 V 130 kA - 525 V 100 kA - 690 V
Rated short-time withstand current, Icw (kA/s)	65 kA / 3s
Rated individual pole short circuit current Irr (kA)	50 kA

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Masterpact MTZ2 type H2V

Rating and main characteristics:

Type H2V	Rated current In (A)
MTZ2-08 H2V	400 to 800
MTZ2-10 H2V	400 to 1000
MTZ2-12 H2V	630 to 1250
MTZ2-16 H2V	800 to 1600
MTZ2-20 H2V	1000 to 2000
MTZ2-25 H2V	1250 to 2500
MTZ2-32 H2V	1600 to 3200
MTZ2-40 H2V	2000 to 3000

Selectivity category	B
Interruption medium	Air
Design	Moulded case
Method of controlling	Store energy operation
Suitability for insulation	Suitable
Provision for maintenance	Maintainable
Method of installation	Fixed or withdrawable
Type of release	Electronic Micrologic X: 2.0 X - 5.0 X - 6.0 X
Circuit breaker for use on IT Systems	Yes
Rated operational voltage, Ue (V)	220 up to 690V
Rated insulation voltage, Ui (V)	1000 V
Rated impulse withstand voltage, Uimp (kV)	12 kV
Nature of supply	AC
Rated frequency (Hz)	50/60 Hz
Total number of poles	3 or 4
Rated ultimate short-circuit breaking capacity, Icu (kA)	100 kA - 220/415/440 V
Rated service short-circuit breaking capacity, Ics (kA)	100 kA - 220/415/440 V
Rated short-time withstand current, Icw (kA/s)	100 kA/1s and 75 kA/3s
Rated individual pole short circuit current Irr (kA)	50 kA

Masterpact MTZ2 type L1

Rating and main characteristics:

Type L1	Rated current In (A)
MTZ2-08 L1	400 to 800
MTZ2-10 L1	400 to 1000
MTZ2-12 L1	630 to 1250
MTZ2-16 L1	800 to 1600
MTZ2-20 L1	1000 to 2000

Selectivity category	B
Interruption medium	Air
Design	Moulded case
Method of controlling	Store energy operation
Suitability for insulation	Suitable
Provision for maintenance	Maintainable
Method of installation	Withdrawable
Type of release	Electronic Micrologic X: 2.0 X - 5.0 X - 6.0 X
Circuit breaker for use on IT Systems	Yes
Rated operational voltage, Ue (V)	220 up to 690V
Rated insulation voltage, Ui (V)	1000 V
Rated impulse withstand voltage, Uimp (kV)	12 kV
Nature of supply	AC
Rated frequency (Hz)	50/60 Hz
Total number of poles	3 or 4
Rated ultimate short-circuit breaking capacity, Icu (kA)	150 kA - 220/415/440 V 130 kA - 525 V 100 kA - 690V
Rated service short-circuit breaking capacity, Ics (kA)	150 kA - 220/415/440 V 130 kA - 525 V 100 kA - 690 V
Rated short-time withstand current, Icw (kA/s)	30 kA / 3s
Rated individual pole short circuit current Irr (kA)	24 kA

Masterpact MTZ3 type H1, H2  
Rating and main characteristics:

Type H1, H2	Rated current In (A)
MTZ3-40 H1	2000 to 4000
MTZ3-50 H1	2500 (1) to 5000
MTZ3-63 H1	3200 (1) to 6300
MTZ3-40 H2	2000 to 4000
MTZ3-50 H2	2500 (1) to 5000
MTZ3-63 H2	3200 (1) to 6300

(1) 2000A with MicroLogic Active control unit

Selectivity category	B
Interruption medium	Air
Design	Moulded case
Method of controlling	Store energy operation
Suitability for insulation	Suitable
Provision for maintenance	Maintainable
Method of installation	Fixed or withdrawable
Type of release	Electronic Micrologic X: 2.0 X - 5.0 X - 6.0 X MicroLogic Active: 2.0 A - 5.0 A - 6.0 A - 2.0 E - 5.0 E - 6.0 E - 2.0 AP - 5.0 AP - 6.0 AP - 2.0 EP - 5.0 EP - 6.0 EP
Circuit breaker for use on IT Systems	Yes
Rated operational voltage, Ue (V)	220 up to 690V
Rated insulation voltage, Ui (V)	1000 V
Rated impulse withstand voltage, Uimp (kV)	12 kV
Nature of supply	AC
Rated frequency (Hz)	50/60 Hz
Total number of poles	3 or 4
Rated ultimate short-circuit breaking capacity, Icu (kA)	H1: 100 kA - 220/415/440/525/690V H2: 150 kA - 220/415/440V 130 kA - 525V 100 kA - 690V
Rated service short-circuit breaking capacity, Ics (kA)	H1: 100 kA - 220/415/440/525/690V H2: 150 kA - 220/415/440V 130 kA - 525V 100 kA - 690V
Rated short-time withstand current, Icw (kA/s)	100 kA / 3 s
Rated individual pole short circuit current Irr (kA)	50 kA

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**Unprotected Circuit Breaker \_ Structure designation: MTZ1 HA, MTZ2 HA , MTZ2 HF, MTZ2 HH, MTZ3 HA**

MTZ	2	32	HA
<b>I</b>	<b>II</b>	<b>III</b>	<b>IV</b>

- I Indicates the “Unprotected circuit-breakers” Line
- II Indicates the frame size
- III Indicates the current rating (x100)
- IV Indicates the making capacity levels: **HA, HF, HH**: indicates **Heavy duty** types

**Masterpact MTZ1 type HA**  
**Rating and main characteristics:**

Type HA	Rated current In (A)
MTZ1-06 HA	630
MTZ1-08 HA	800
MTZ1-10 HA	1000
MTZ1-12 HA	1250
MTZ1-16 HA	1600

Selectivity category	B
Interruption medium	Air
Design	Moulded case
Method of controlling	Stored energy operation
Suitability for insulation	Suitable
Provision for maintenance	Maintainable
Method of installation	Fixed or withdrawable
Degree of pollution	3
Type of release	N/A
Circuit breaker for use on IT Systems	Yes
Rated operational voltage, <b>U<sub>e</sub></b> (V)	AC220 up to 690V
Rated insulation voltage, <b>U<sub>i</sub></b> (V)	1000 V
Rated impulse withstand voltage, <b>U<sub>imp</sub></b> (kV)	12 kV
Nature of supply	AC
Rated frequency ( <b>Hz</b> )	50/60 Hz
Total number of poles	3P or 4P
Rated duty	Uninterrupted duty
Rated ultimate short-circuit breaking capacity, <b>I<sub>cu</sub></b> (kA)	36 kA
Rated service short-circuit breaking capacity, <b>I<sub>cs</sub></b> (kA)	36 kA
Rated short-time withstand current, <b>I<sub>cw</sub></b> (kA/s)	36 kA/s 1 s
Rated individual pole short circuit current <b>I<sub>r</sub></b> (kA)	19.2 kA

## Masterpact MTZ2 type HA

### Rating and main characteristics:

Type HA	Rated current In (A)
MTZ2-08 HA	800
MTZ2-10 HA	1000
MTZ2-12 HA	1250
MTZ2-16 HA	1600
MTZ2-20 HA	2000
MTZ2-25 HA	2500
MTZ2-32 HA	3200
MTZ2-40 HA	4000

Selectivity category	B
Interruption medium	Air
Design	Moulded case
Method of controlling	Stored energy operation
Suitability for insulation	Suitable
Provision for maintenance	Maintainable
Method of installation	Fixed or withdrawable
Degree of pollution	3
Type of release	N/A
Circuit breaker for use on IT Systems	Yes
Rated operational voltage, $U_e$ (V)	220 up to 690V
Rated insulation voltage, $U_i$ (V)	1000 V
Rated impulse withstand voltage, $U_{imp}$ (kV)	12 kV
Nature of supply	AC
Rated frequency (Hz)	50/60 Hz
Total number of poles	3P or 4P
Rated duty	Uninterrupted duty
Rated ultimate short-circuit breaking capacity, $I_{cu}$ (kA)	66 kA
Rated service short-circuit breaking capacity, $I_{cs}$ (kA)	66 kA
Rated short-time withstand current, $I_{cw}$ (kA/s)	66 kA/s 1 s
Rated individual pole short circuit current $I_{IT}$ (kA)	24 kA for rating $\leq 2000$ A 50 kA for rating $\leq 2500$ A

### Masterpact MTZ2 type HF

Equipped with a “Micrologic DINF” making current release intended to instantaneously trip the device in case closing on a short-circuit current higher than its predetermined value.

#### Rating and main characteristics:

Type HF	Rated current In (A)
MTZ2-08 HF	800
MTZ2-10 HF	1000
MTZ2-12 HF	1250
MTZ2-16 HF	1600
MTZ2-20 HF	2000
MTZ2-25 HF	2500
MTZ2-32 HF	3200
MTZ2-40 HF	4000

Selectivity category	B
Interruption medium	Air
Design	Moulded case
Method of controlling	Store energy operation
Suitability for insulation	Suitable
Provision for maintenance	Maintainable
Method of installation	Fixed or withdrawable
Degree of pollution	3
Type of release	Electronic (overcurrent making release)
Circuit breaker for use on IT Systems	Yes
Rated operational voltage, $U_e$ (V)	220 up to 690V
Rated insulation voltage, $U_i$ (V)	1000 V
Rated impulse withstand voltage, $U_{imp}$ (kV)	12 kV
Nature of supply	AC
Rated frequency (Hz)	50/60 Hz
Total number of poles	3P or 4P
Rated duty	Uninterrupted duty
Rated short-time making capacity, $I_{cm}$ (kA)	187 kA
Rated ultimate short-circuit breaking capacity, $I_{cu}$ (kA)	85 kA
Rated service short-circuit breaking capacity, $I_{cs}$ (kA)	100 % $I_{cu}$
Rated short-time withstand current, $I_{cw}$ (kA/s)	85 kA/1s 75 kA/3s
Rated individual pole short-circuit current, $I_{rr}$ (kA)	50 kA

### Masterpact MTZ2 type HH

Equipped with a “Micrologic DINF” making current release intended to instantaneously trip the device in case closing on a short-circuit current higher than its predetermined value.

#### Rating and main characteristics:

Type HH	Rated current $I_n$ (A)
MTZ2-20 HH	2000
MTZ2-25 HH	2500
MTZ2-32 HH	3200
MTZ2-40 HH	4000

Selectivity category	B
Interruption medium	Air
Design	Moulded case
Method of controlling	Store energy operation
Suitability for insulation	Suitable
Provision for maintenance	Maintainable
Method of installation	Fixed or withdrawable
Degree of pollution	3
Type of release	Electronic (overcurrent making release)
Circuit breaker for use on IT Systems	Yes
Rated operational voltage, $U_e$ (V)	220 up to 440V
Rated insulation voltage, $U_i$ (V)	1000 V
Rated impulse withstand voltage, $U_{imp}$ (kV)	12 kV
Nature of supply	AC
Rated frequency (Hz)	50/60 Hz
Total number of poles	3P or 4P
Rated duty	Uninterrupted duty
Rated short-time making capacity, $I_{cm}$ (kA)	220kA
Rated ultimate short-circuit breaking capacity, $I_{cu}$ (kA)	100 kA
Rated service short-circuit breaking capacity, $I_{cs}$ (kA)	100% $I_{cu}$
Rated short-time withstand current, $I_{cw}$ (kA/s)	100 kA/1s 75 kA/3s
Rated individual pole short-circuit current, $I_{rr}$ (kA)	50 kA

## Masterpact MTZ3 type HA

### Rating and main characteristics:

Type HA	Rated current $I_n$ (A)
MTZ3-40 HA	4000
MTZ3-50 HA	5000
MTZ3-63 HA	6300

Selectivity category	B
Interruption medium	Air
Design	Moulded case
Method of controlling	Stored energy operation
Suitability for insulation	Suitable
Provision for maintenance	Maintainable
Method of installation	Fixed or withdrawable
Pollution degree	3
Circuit breaker for use on IT Systems	Yes
Rated operational voltage, $U_e$ (V)	220 up to 690V
Rated insulation voltage, $U_i$ (V)	1000 V
Rated impulse withstand voltage, $U_{imp}$ (kV)	12 kV
Nature of supply	AC
Rated frequency (Hz)	50/60 Hz
Total number of poles	3P or 4P
Rated ultimate short-circuit breaking capacity, $I_{cu}$ (kA)	85 kA
Rated service short-circuit breaking capacity, $I_{cs}$ (kA)	85 kA
Rated short-time withstand current, $I_{cw}$ (kA/s)	85 kA / 1 s
Pollution degree	3
Rated individual pole short-circuit current, $I_{rr}$ (kA)	50 kA

**Undervoltage release (MN), shunt trip release (MX), closing release (XF)**

<b>References</b>	<b>Voltage - Type - Frequency</b>	<b>References</b>	<b>Voltage - Type - Frequency</b>
<b>MN</b>		<b>MN Diag.</b>	
LV833668 LV833668SP	24-30V DC ; 24V AC 50/60 Hz	LV833668 LV833668SP	24-30V DC ; 24V AC 50/60 Hz
LV833669 LV833669SP	48-60V DC ; 48V AC 50/60 Hz	LV833669 LV833669SP	48-60V DC ; 48V AC 50/60 Hz
LV833670 LV833670SP	100-130V DC ; 100-130V AC 50/60 Hz	LV833670 LV833670SP	100-130V DC ; 100-130V AC 50/60 Hz
LV833671 LV833671SP	200-250V DC ; 200-250V AC 50/60 Hz	LV833671 LV833671SP	200-250V DC ; 200-250V AC 50/60 Hz
LV833673 LV833673SP	380-480V AC 50/60 Hz	LV833673 LV833673SP	380-480V AC 50/60 Hz
33668	24-30V DC ; 24V AC 50/60 Hz		
33669	48-60V DC ; 48V AC 50/60 Hz		
33670	100-130V DC ; 100-130V AC 50/60 Hz		
33671	200-250V DC ; 200-250V AC 50/60 Hz		
33673	380-480V AC 50/60 Hz		
<b>MX/XF</b>		<b>MX/XF Diag. and COM</b>	
LV833659 LV833659SP	24-30V DC ; 24V AC 50/60 Hz	LV833033 LV833033SP	24-30V DC ; 24V AC 50/60 Hz
LV833660 LV833660SP	48-60V DC ; 48V AC 50/60 Hz	LV833034 LV833034SP	48-60V DC ; 48V AC 50/60 Hz
LV833661 LV833661SP	100-130V DC ; 100-130V AC 50/60 Hz	LV833035 LV833035SP	100-130V DC ; 100-130V AC 50/60 Hz
LV833662 LV833662SP	200-250V DC ; 200-250V AC 50/60 Hz	LV833036 LV833036SP	200-250V DC ; 200-250V AC 50/60 Hz
LV833663 LV833663SP	277V AC 50/60 Hz	LV833037 LV833037SP	277V AC 50/60 Hz
LV833664 LV833664SP	380-480V AC 50/60 Hz	LV833038 LV833038SP	380-480V AC 50/60 Hz
33659	24-30V DC ; 24V AC 50/60 Hz		
33660	48-60V DC ; 48V AC 50/60 Hz		
33661	100-130V DC ; 100-130V AC 50/60 Hz		
33662	200-250V DC ; 200-250V AC 50/60 Hz		
33663	277V AC 50/60 Hz		
33664	380-480V AC 50/60 Hz		

**Electric motor (MCH):****MTZ1**

References	Voltage - Type - Frequency	
33186	48 V	AC 50/60 Hz
LV833186SP		
33176	100-130 V	
LV833176SP		
33177	200-240 V	
LV833177SP		
33179	277-415 V	
LV833179SP		
33179	440-480 V	
LV833179SP		
33193	+ resistor	
LV833193SP		
33185	24-30 V	DC
LV833185SP		
33186	48-60 V	
LV833186SP		
33187	100-130 V	
LV833187SP		
33188	200-250 V	
LV833188SP		

**MTZ2-3**

References	Voltage - Type - Frequency	
47889	48 V	AC 50/60 Hz
LV847889SP		
47893	100-130 V	
LV847893SP		
47894	200-240 V	
LV847894SP		
47895	250-277 V	
LV847895SP		
47896	380-415 V	
LV847896SP		
47897	440-480 V	
LV847897SP		
47888	24-30 V	DC
LV847888SP		
47889	48-60 V	
LV847889SP		
47890	100-125 V	
LV847890SP		
47891	200-250 V	
LV847891SP		

**Others:**

Embedded Ethernet InterFace (EIFE): LV851001, LV851100SP, LV851001SP, LV851001SP, LV851200SP  
 ULP interface module : LV836385, LV850063SP, LV836386, LV850064SP, LV850061SP, LV836387, LV850062SP  
 M2C - Programmable contacts : LV847086, LV847086SP  
 Electrical reset (RES): 47082, LV847344FS, 47083, LV847345FS, 47901, LV848202SP, 47902, LV848203SP

**Environmental tests (IACS UR E10 )**

F-Lab Test reports n. SPEC22AA1123\_V1 dated 05/05/2022  
 F-Lab Test reports n. SPEC22AA1437 - SPEC22AA1437 - SPEC22AA1439 - SPEC22AA1440 dated 10/05/2022  
 F-Lab Test reports n. SPEC22AA1127v2 dated 12/05/2022  
 F-Lab Test reports n. SPEC22AA0627 dated 13/05/2022  
 F-Lab Test reports n. SPEC22AA06287 -SPEC22AA0629 - dated 18/05/2022  
 F-Lab Test reports n. SPEC23AA7821\_v1 dated 04/12/2023  
 F-Lab Test reports n. SPEC23AA7820\_V1 dated 02/02/2024  
 F-Lab Test reports n. SPEC23AA7895\_V1 dated 21/02/2024  
 F-Lab Test reports n. SPEC23AA8004\_V1 dated 01/03/2024  
 F-Lab Test reports n. SPEC24AA5536\_V1 dated 07/08/2024  
 F-Lab Test reports n. SPEC24AA6783\_V1 - SPEC24AA9921\_V1 dated 14/08/2024  
 F-Lab Test reports n. SPEC23AA8004\_V1 dated 03/09/2024  
 F-Lab Test reports n. SPEC23AA4636\_V1 -SPEC23AA7814\_V1 - SPEC23AA7889\_V1 - SPEC23AA7893\_V1 - SPEC23AA7998\_V1 - SPEC24AA6910\_V1 - SPEC24AA8597\_V1 - SPEC24AA8597\_V1 dated 17/10/2024  
 F-Lab Test reports n. SPEC23AA8002\_V1 dated 18/10/2024  
 LCIE EMC test reports n. 13413278-775430-B dated 07/02/2022  
 LCIE EMC test reports n. 19836223-792850 B dated 21/02/2024  
 LCIE EMC test reports n. 22013732-800051 A(03) dated 14/11/2024  
 EMITECH ENVIRONNE'TECH: Report n. RME-ENVESS23C151SCH-01A(00); n.RME-ENVESS23C151SCH-02A(00) dated 14/05/2024  
 EMITECH ENVIRONNE'TECH: Report n.RME-ENVESS23C151SCH-02A(00) dated 05/06/2024  
 Zhejiang Fangyuan Test Group: report n. 22119E90001-A1 26.05.2023

**Test reports and certificates (IEC 60947-2:2016):**

LCIE CB Test Certificate n. FR\_713511\_M3 dated 14/10/2024

RINA Services S.p.A.  
 Via Corsica, 12 - 16128 Genova  
 Tel +39 010 53851  
 Fax +39 010 5351000

LCIE CB Test Certificate n. FR\_713512\_M3 dated 15/10/2024  
LCIE CB Test Certificate n. FR\_713525/M3 dated 14/10/2024  
LCIE CB Test Certificate n. FR\_718779 dated 2024-03-20  
LCIE CB Test Certificate n. FR\_713549\_A1 dated 2022-04-06  
LCIE CB Test Certificate n. FR\_713552\_A1 dated 2022-04-06  
LCIE CB Test Certificate n. FR\_713551\_A2 dated 2024-01-22  
LCIE CB Test Certificate n. FR\_713556\_A1 dated 2022-04-06

Test Report n.157394-733097-A; n.164183-744396-A; n.172902-76628 ; n.23119Y90013; n.19535667-791882; n.22054668-800240;  
Test Report n.157394-733098-A; n.164183-744398-A; n.172902-766288; n.23119Y90013; n.19535667-791882; n.22054668-800240;  
Test Report n.157394-733099-A; n.164183-744400-A; n.172902-766288 ; n.23119Y90013; n.19535667-791882; n.22054668-800240;  
Test Report n.157394-733100-A; n.164183-744410-A; n.172902-766306 ; n.23119Y90014; n.19535667-791884; n.22054668-800242;  
Test Report n.157394-733101-A; n.164183-744402-A; n.172902-766312 ; n.23119Y90014; n.19535667-791884; n.22054668-800242;  
Test Report n.161635-737436-A; n.164183-744404-A; n.172902-766324 ; n.23119Y90014; n.19535667-791884; n.22054668-800242;  
Test Report n.157394-733103-A; n.164183-744404-A; n.172902-766324 ; n.23119Y90014; n.19535667-791884; n.22054668-800242;  
Test Report n.157394-733104-A ;n.164183-744408-A; n.172902-766330 ; n.23119Y90014; n.19535667-791884; n.22054668-800242;  
Test Report n.157394-733105-A ;n.164183-744406-A ;n.2111990001; n.172902-766337; n.15721356-780716; n. 23119Y90014;  
n.19535667-791884; n.22054668-800242  
Test Report n.157394-733106-A ; n.164183-744412-A ; n.172902-766341 ; n.23119Y90015; n.19535667-791886; n.22054668-800244

#### **Technical description**

Schneider doc. Catalog 2025 Air circuit breakers and switch-disconnectors (Jan. 2025)

Schneider doc. Catalog - March 2024 Air Circuit Breakers (March. 2024)

#### **Remarks :**

On board reference ambient temperature is 45°C: current rated values to be considered accordingly. Installation and use according to the Manufacturer instruction.

**Genoa May 5, 2025**