TYPE APPROVAL CERTIFICATE
No. **ELE107025CS002**

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

Description	**Switch disconnectors**
Type	**MasterPacT Series** **MTZ1 type HA** **MTZ2 type NA, HA, HH, HF** **MTZ3 type HA**
Applicant	**SCHNEIDER ELECTRIC INDUSTRIES SAS** **35 Rue Joseph Monier** **92500 Rueil Malmaison** **FRANCE**
Manufacturer	**SCHNEIDER ELECTRIC ALPES**
Place of manufacture	**Rue Isaac Newton** **73800 Porte-de-Savoie** **FRANCE**
Reference standards	**IEC 60947-3:2020; Rules for the Classification of Ships - Part C - Machinery Systems and Fire Protection; Ch. 3; Sec. 8, Table 1**

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

RINA Services S.p.A.
Luigi Benedetti

This certificate consists of this page and 1 enclosure

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TYPE APPROVAL CERTIFICATE
No. **ELE107025CS002**
Enclosure - Page 1 of 1
MasterPacT Series
MTZ1 type HA
MTZ2 type NA, HA, HH, HF
MTZ3 type HA

...**Switch-disconnector_Structure designation:**

MTZ	2	32	HA
I	**II**	**III**	**IV**

I Indicates the switch disconnector
II Indicates the frame size
III Indicates the current rating (x100)

IV Indicates the making capacity levels**:** **NA** indicates **N**ormal types; **HA, HF, HH** indicates **H**eavy duty types

Masterpact Series MTZ1 type HA Rating and characteristics:

Type	**MTZ1-06 HA**	**MTZ1-08 HA**	**MTZ1-10 HA**	**MTZ1-12 HA**	**MTZ1-16 HA**
Number of poles	3p or 4p				
Operational voltage, **Ue**	220 up to 690V				
Frequency	50/60 Hz				
Insulation voltage	1000 V				
Impulse withstand voltage, **Uimp**	12 kV				
Utilization category	AC-23A				
Operat. current, free air thermal current, **Ie = Ith**	630 A	800A	1000A	1250A	1600A
Rated short-time withstand current, **Icw**	36 kA / 1s 20kA / 3s				
Rated short-circuit making capacity, **Icm**	75 kA				
Method of operation	Store energy operation				
Suitability for isolation	Suitable				

Masterpact MTZ2 type NA Rating and main characteristics:

Type	**MTZ2-08 NA**	**MTZ2-10 NA**	**MTZ2-12 NA**	**MTZ2-16 NA**
Number of poles	3p or 4p			
Operational voltage, **Ue**	220 up to 690Vac			
Frequency	50 / 60 Hz			
Insulation voltage, **Ui**	1000 V			
Impulse withstand voltage, **Uimp**	12 kV			
Utilization category	AC-23A			
Operat. current, free air thermal current, **Ie = Ith**	800A	1000A	1250A	1600
Rated short-time withstand current, **Icw**	42 kA / 1 s			
Rated short-circuit making capacity, **Icm**	88 kA			
Method of operation	Store energy operation			
Suitability for isolation	Suitable			
Pollution degree	3			

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Masterpact MTZ2 type HA Rating and main characteristics:

Type HA	**MTZ2-08 HA**	**MTZ2-10 HA**	**MTZ2-12 HA**	**MTZ2-16 HA**
Number of poles	3 or 4			
Operational voltage, **Ue**	220 up to 690Vac			
Frequency	50 / 60 Hz			
Insulation voltage, **Ui**	1000 V			
Impulse withstand voltage, **Uimp**	12 kV			
Utilization category	AC-23A			
Operational current, free air thermal current **Ie = Ith**	800A	1000A	1250A	1600
Rated short-time withstand current, **Icw**	66 kA / 1 s			
Rated short-circuit making capacity, **Icm**	145 kA			
Method of operation	Store energy operation			
Suitability for isolation	Suitable			
Pollution degree	3			
Type HA	**MTZ2-20 HA**	**MTZ2-25 HA**	**MTZ2-32 HA**	**MTZ2-40 HA**
Number of poles	3 or 4			
Operational voltage, **Ue**	220 up to 690Vac			
Frequency	50 / 60 Hz			
Insulation voltage, **Ui**	1000 V			
Impulse withstand voltage, **Uimp**	12 kV			
Utilization category	AC-23A			
Operational current, free air thermal current **Ie = Ith**	2000A	2500A	3200A	4000
Rated short-time withstand current, **Icw**	66 kA / 1 s			
Rated short-circuit making capacity, **Icm**	145 kA			
Method of operation	Store energy operation			
Suitability for isolation	Suitable			
Pollution degree	3			

Masterpact MTZ2 type HF Rating and main characteristics:

Type HF	**MTZ2-08 HF**	**MTZ2-10 HF**	**MTZ2-12 HF**	**MTZ2-16 HF**
Number of poles	3P or 4P			
Operational voltage, **Ue**	220 up to 690Vac			
Frequency	50 / 60 Hz			
Insulation voltage, **Ui**	1000 V			
Impulse withstand voltage, **Uimp**	12 kV			
Utilization category	AC-23A			
Operational current, free air thermal current **Ie = Ith**	800A	1000A	1250A	1600
Rated short-time withstand current, **Icw**	85 kA / 1s 75 kA /3s			
Rated short-circuit making capacity, **Icm**	187 kA			
Method of operation	Store energy operation			
Suitability for isolation	Suitable			
Pollution degree	3			
Type HF	**MTZ2-20 HF**	**MTZ2-25 HF**	**MTZ2-32 HF**	**MTZ2-40 HF**
Number of poles	3P or 4P			
Operational voltage, **Ue**	220 up to 690Vac			
Frequency	50 / 60 Hz			
Insulation voltage, **Ui**	1000 V			
Impulse withstand voltage, **Uimp**	12 kV			
Utilization category	AC-23A			
Operational current, free air thermal current **Ie = Ith**	2000A	2500A	3200A	4000
Rated short-time withstand current, **Icw**	85 kA / 1s 75 kA /3s			
Rated short-circuit making capacity, **Icm**	187 kA			
Method of operation	Store energy operation			
Suitability for isolation	Suitable			
Pollution degree	3			

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Masterpact MTZ2 type HH **Rating and main characteristics:**

Type HH	**MTZ2-20 HH**	**MTZ2-25 HH**	**MTZ2-32 HH**	**MTZ2-40 HH**
Number of poles	3P or 4P			
Operational voltage, **Ue**	220 up to 440Vac			
Frequency	50 / 60 Hz			
Insulation voltage, **Ui**	1000 V			
Impulse withstand voltage, **Uimp**	12 kV			
Utilization category	AC-23A			
Rated operational current, **Ie**	2000A	2500A	3200A	4000
Convenctional free air thermal current **Ith** (A)				
Rated uninterrupted current **Iu**: (A)				
Rated short-time withstand current, **Icw** (A)	100 kA / 1s 75 kA /3s			
Rated short-circuit making capacity, ,**Icm** (A)	220 kA			
Method of operation	Store energy operation			
Suitability for isolation	Suitable			
Pollution degree	3			

Masterpact MTZ3 type HA Rating and main characteristics:

Type HA	**MTZ3-40 HA**	**MTZ3-50 HA**	**MTZ3-63 HA**
Number of poles	3p or 4p		
Operational voltage, **Ue**	220 up to 690Vac		
Frequency	50 / 60 Hz		
Insulation voltage, **Ui**	1000 V		
Impulse withstand voltage, **Uimp**	12 kV		
Utilization category	AC-23A		
Operational current, **Ie = Ith**	4000A	5000A	6300
Rated short-time withstand current, **Icw**	85 kA / 3 s		
Rated short-circuit making capacity, **Icm**	187 kA		
Method of operation	Store energy operation		
Suitability for isolation	Suitable		
Pollution degree	3		

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

References	Voltage - Type - Frequency	References	Voltage - Type - Frequency
MN		**MN Diag.**	
LV833668 LV833668SP	24-30V DC ; 24V AC 50/60 Hz	LV836668 LV836668SP	24-30V DC ; 24V AC 50/60 Hz
LV833669 LV833669SP	48-60V DC ; 48V AC 50/60 Hz	LV836669 LV836669SP	48-60V DC ; 48V AC 50/60 Hz
LV833670 LV833670SP	100-130V DC ; 100-130V AC 50/60 Hz	LV836670 LV836670SP	100-130V DC ; 100-130V AC 50/60 Hz
LV833671 LV833671SP	200-250V DC ; 200-250V AC 50/60 Hz	LV836671 LV836671SP	200-250V DC ; 200-250V AC 50/60 Hz
LV833673 LV833673SP	380-480V AC 50/60 Hz	LV836673 LV836673SP	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		
MX/XF		**MX/XF Diag. and COM**	
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		

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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		

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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
Electrical reset (RES): 47082, LV847344FS, 47083, LV847345FS, 47901, LV848202SP, 47902, LV848203SP

Environmental tests (IACS UR E10)
EMITECH ENVIRONNE'TECH: Report n. RENV-ENN-16-400870-3A(02); n.RENV-ENN-16-400870-4A(02) dated 08/02/2016
Labs Volta Environmental Pole: TR n.201504917_099_v2; n.201504917_105_v1; n. 201504917_108_v1; n.201504917_110_v1 dated 12/01/2017;
TR n.201605195_013 dated 21/02/2017;
TR n.201605195_017 dated 03/03/2017;
TR n.201605195_011 dated 25/04/2017;

Test reports and certificates (IEC 60947-3:2020 & IEC 60947-1:2020):

LCIE CB Test Certificate n. FR_713325, n. FR_713151, n. FR_713326 dated 03/03/2022
LCIE CB Test Certificate n. FR_713153, n. FR_713153 dated 04/03/2022
LCIE CB Test Certificate n. FR_713153 dated 14/10/2024
LCIE CB Test Certificate n. FR_713152/A1 dated 07/12/2023

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LCIE CB Test Certificate n. FR_713327 dated 03/03/2022
LCIE EMC test reports n. 2111990029; n. 2111990034 dated 03/03/2022
LCIE EMC test reports n. 2111990030 dated 04/03/2022
LCIE EMC test reports n.2111990031 and 2111990032 dated 03/03/2022
LCIE EMC test reports n. 2111990033 dated 07/12/2023

Remarks:

On board reference ambient temperature is 45°C : rated current value to be considered accordingly. Use and installation according to Manufacturer instruction

Genoa 05/05/2025

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