



## Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

<b>Manufacturer</b>	<b>Schneider Electric Industries SAS</b>
<b>Address</b>	35 RUE JOSEPH MONIER, RUEIL MALMAISON, 92500, France
<b>Place of Production</b>	Schneider Electric Alpes ZI Alpespace, Voie Isaac Newton, Francin, 73800, France
<b>Place of Production</b>	SCHNEIDER SHANGHAI POWER DISTRIBUTION ELEC. APP. CO LTD 833 Kang Qiao Road Pudong Area, Shanghai, 201315, China
<b>Place of Production</b>	Schneider Electric France Mastertech 70 Rue de la Grange Batie, Z.I. Centr'Alp, Moirans, 38430, France
<b>Place of Production</b>	Schneider Electric India Pvt Ltd. Survey No. 215, Gagillapur Village, Medak Road, Rangareddy District, Hyderabad, 500043, India
<b>Type</b>	Switches - Ac
<b>Description</b>	Switch disconnecter, 3 and 4 poles, fixed and draw out type  MTZ1 06/08/10/12/16 HA MTZ2 06/08/10/12/16 NA MTZ2 08/10/12/16/20/25/32/40 HA MTZ3 40/50/63 HA

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For detailed product description, pls. refer to appendix.

<b>Trade Name</b>	Masterpact MTZ1, MTZ2, MTZ3 - types NA and HA
<b>Application</b>	Marine, Offshore and Industrial applications for use in environmental categories ENV1, ENV2 and ENV3, as defined in Lloyd's Register Type Approval System, Test Specification Number 1 – December 2021. Suitable for use in general power distribution zone only.
<b>Specified Standard</b>	IEC 60947-1: 2020 IEC 60947-3: 2020 IACS UR E10 Rev. 8: 2021
<b>Ratings</b>	Rated insulation voltage $U_i$ : 1000 V Rated impulse withstand voltage $U_{imp}$ : 12 kV Rated current $I_e$ (AC23A): 630 to 6300 A Rated operational voltage $U_e$ : 220 to 690 VAC Rated frequency: 50/60 Hz No. of poles: 3 or 4  For detailed ratings, pls. refer to appendix.
<b>Other Conditions</b>	Derating for ambient temperature above 40 °C according to manufacturer's derating table.  Assembly of MasterPact MTZ can also be carried out in further Schneider Electric Industries - Local Adaption Centers acc. to manufacturer's declaration "MasterPacT MZT_industrial organization and factory audit_2022-03-15.pdf"  Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.  If the specified standards are amended during the validity of this certificate,

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the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply.

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

**Previous Version:** 17/20084 (E1)

The Design Appraisal Document HPC2262018-23/MK and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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## Appendix

**DESCRIPTION** Switch disconnector, fixed and draw-out type

MasterPact MTZ<sup>①②③</sup>

- ① Frame size  
1, 2, 3
- ② Current rating (x100)  
06 630 A  
08 800 A  
10 1000 A  
12 1250 A  
16 1600 A  
20 2000 A  
25 2500 A  
32 3200 A  
40 4000 A  
50 5000 A  
63 6300 A
- ③ Performance level  
NA: indicates Normal type  
HA: indicates Heavy duty types

**RATINGS** General characteristics

		MTZ1	MTZ2		MTZ3
		HA	NA	HA	HA
Rated current (max), AC23A	Ie (A)	1600	1600	4000	6300
Frequency	f (Hz)	50/60	50/60		50/60
Degree of pollution		3	3		3
Impulse withstand voltage	Uimp (kV)	12	12		12
Rated insulation voltage	Ui (V)	1000	1000		1000
Rated operational voltage (max)	Ue (Vac)	690	690		690

Currents ratings

		Rated Current Ie (A) at 40 °C, AC23A											
		MTZ	06	08	10	12	16	20	25	32	40	50	63
		Type											
MTZ1	HA		630	800	1000	1250	1600	-	-	-	-	-	-
MTZ2	NA		-	800	1000	1250	1600	-	-	-	-	-	-
	HA		-	800	1000	1250	1600	2000	2500	3200	4000	-	-
MTZ3	HA		-	-	-	-	-	-	-	-	4000	5000	6300



**RATINGS (continued)**

Electrical characteristics acc. to IEC 60947-3

	Type	Rated current I <sub>e</sub> [A] at 40 °C	Rated voltage U <sub>e</sub> [VAC]	Making capacity <sup>(1)</sup> I <sub>cm</sub> [kA]	Withstand capacity I <sub>cw</sub> [kA]		Utilisation category
					1s	3s	
<b>MTZ1</b>	<b>HA</b>	630 - 1600	220...690	75	36	20	AC-23A
<b>MTZ2</b>	<b>NA</b>	800 - 1600	220...690	88	42	-	AC-23A
	<b>HA</b>	800 - 4000	220...690	145	66	-	AC-23A
<b>MTZ3</b>	<b>HA</b>	4000 - 6300	220...690	187	-	85	AC-23A

(1) for power factor 0.2