



NIPPON KAIJI KYOKAI

COPY

*Certificate
of
Type Test*

Certificate No.

TA23531M

MANUFACTURER: ABB SACE SPA, Italy

PRODUCT: Low-Voltage Circuit Breaker

TYPE NO.: Tmax XT1, XT2, XT3, XT4, XT5, XT6, XT7

TYPE TEST NO.: 18T202

PARTICULARS:

Rated insulation voltage	a.c.800V (XT1, XT3) a.c.1000V (XT2, XT4, XT5, XT6, XT7)
Rated operational voltage	a.c.690V, d.c.500V, d.c.750V
Rated frequency	50-60Hz
Rated impulse withstand voltage Uimp.	8kV
No. of poles	3-4
Utilization category	A (for XT1, XT2, XT3, XT4) A (up to 630A for XT5) B (up to 500A for XT5) A (up to 1000A for XT6) B (800A for XT6) B (for XT7)

NOTE: Other ratings for mentioned above are shown attached sheet.

STANDARDS: IEC 60947-2

DOCUMENTATION: Refer to the attached sheet

THIS IS TO CERTIFY that the above mentioned product has been approved by the NIPPON KAIJI KYOKAI in accordance with the Society's type test requirements for electrical equipment and cables.

This certificate is valid until 11 November 2027.

Issued at Tokyo on 16 November 2023.


S. Oishi
General Manager
Machinery Department



RATINGS: Tmax XT1 series

Type	XT1B	XT1C	XT1N	XT1S	XT1H
Rated Current In at 45°C (A)	160				
Rated ultimate short-circuit breaking capacity Icu (kA)					
Icu @ 240V AC	25	40	65	85	100
Icu @ 440V AC	15	25	36	50	65
Icu @ 690V AC	3	4	6	8	10
Icu @ 250V DC	18	25	36	50	70
Icu @ 500V DC	18	25	36	50	70
Rated ultimate short-circuit breaking capacity Ics (kA)					
Ics @ 240V AC	25	40	50	64	75
Ics @ 440V AC	15	13	18	25	33
Ics @ 690V AC	3	4	4	4	5
Ics @ 250V DC	18	25	36	50	53
Ics @ 500V DC	18	25	36	50	53
Rated short-circuit making capacity Icm (kA)					
Icm @ 240V AC	52.5	84	143	187	220
Icm @ 440V AC	30	52.5	75.6	105	143
Icm @ 690V AC	4.26	5.88	9.18	13.6	17

RATINGS: Tmax XT2 series

KATINGS: Tmax XT2 series					
Type	XT2N	XT2S	XT2H	XT2L	XT2V
Rated Current In at 45°C (A)	160				
Rated ultimate short-circuit breaking capacity Icu (kA)					
Icu @ 240V AC	65	85	100	150	200
Icu @ 440V AC	36	50	65	100	150
Icu @ 690V AC	10	12	15	18	20
Icu @ 250V DC	36	50	70	85	100
Icu @ 500V DC	36	50	70	85	100
Rated ultimate short-circuit breaking capacity Ics (kA)					
Ics @ 240V AC	65	85	100	150	250
Ics @ 440V AC	36	50	65	100	150
Ics @ 690V AC	10	12	15	15	15
Ics @ 250V DC	36	50	70	85	100
Ics @ 500V DC	36	50	70	85	100
Rated short-circuit making capacity Icm (kA)					
Icm @ 240V AC	143	187	220	330	440
Icm @ 440V AC	75.6	105	143	220	330
Icm @ 690V AC	17	24	30	36	40

---- To be continued ----

RATINGS: Tmax XT3 series

Type	XT3N	XT3S
Rated Current In at 45°C (A)	250	
Rated ultimate short-circuit breaking capacity Icu (kA)		
Icu @ 440V AC	36	40
Icu @ 690V AC	5	6
Icu @ 250V DC	36	50
Icu @ 500V DC	36	50
Rated ultimate short-circuit breaking capacity Ics (kA)		
Ics @ 440V AC	19	20
Ics @ 690V AC	3	3
Ics @ 250V DC	36	38
Ics @ 500V DC	36	38
Rated short-circuit making capacity Icm (kA)		
Icm @ 440V AC	52.5	84
Icm @ 690V AC	7.65	9

RATINGS: Tmax XT4 series

Type	XT4N	XT4S	XT4H	XT4L	XT4V	XT4X
Rated Current In at 45°C (A)	160/250					
Rated ultimate short-circuit breaking capacity Icu (kA)						
Icu @ 240V AC	65	85	100	150	200	200
Icu @ 440V AC	36	50	65	100	150	200
Icu @ 690V AC	10	12	15	20	50***	100
Icu @ 250V DC	36	50	70	85	100	100
Icu @ 500V DC	36	50	70	85	100	100
Icu @ 750V DC					50	70
Rated ultimate short-circuit breaking capacity Ics (kA)						
Ics @ 240V AC	65	85	100	150	250	200
Ics @ 440V AC	36	50	65	100	150	200
Ics @ 690V AC	10	12	15	20	50*	100*
Ics @ 250V DC	36	50	70	85	100	100
Ics @ 500V DC	36	50	70	85	100	100
Icu @ 750V DC					50	70
Rated short-circuit making capacity Icm (kA)						
Icm @ 240V AC	143	187	220	330	440	440
Icm @ 440V AC	75.6	105	143	220	330	440
Icm @ 690V AC	17	24	30	40	52.5**	220

Note: * = Ics = 25kA for In > 200A when equipped with terminals: Front; FCCu; FCCuAl

** = Icm = 110kA for Icu = 50kA; Icm = 52.5kA for Icu = 25kA

*** = For In ≤ 32A, Icu = 25kA / Ics = 20kA

----- To be continued -----

RATINGS: Tmax XT5 series

RATINGS: Tmax X15 series

Type	XT5N	XT5S	XT5H	XT5L	XT5V	XT5X
Rated Current In at 45°C (A)	400/630					
Rated ultimate short-circuit breaking capacity Icu (kA)						
Icu @ 240V AC	70	85	100	150	200	200
Icu @ 440V AC	36	50	65	100	180	200
Icu @ 690V AC	20	25	40	70	80	100
Icu @ 250V DC	25	35	50	70	85	100
Icu @ 500V DC***	25	35	50	70	85	100
Rated ultimate short-circuit breaking capacity Ics (kA)						
Ics @ 240V AC	70	85	100	150	200	200
Ics @ 440V AC	36	50	65	100	180	200
Ics @ 690V AC	20	25	40	70	80*	100**
Ics @ 250V DC	25	35	50	70	85	100
Ics @ 500V DC***	25	35	50	70	85	100
Rated short-circuit making capacity Icm (kA)						
Icm @ 240V AC	154	187	220	330	440	440
Icm @ 440V AC	75.6	105	143	220	396	440
Icm @ 690V AC	40	52.5	84	154	176	220

Note: * = for In 630A Ics 40kA at 690V

** = for In 630A Ics 50kA at 690V

*** = for XT5V: Icu = Ics = 85kA at 750V DC also
for XT5X: Icu = Ics = 100kA at 750V DC also

RATINGS: Tmax XT6 series

Ratings: Tmax X10 series			
Type	XT6N	XT6S	XT6H
Rated Current In at 45°C (A)	800/1000		
Rated ultimate short-circuit breaking capacity Icu (kA)			
Icu @ 240V AC	70	85	100
Icu @ 440V AC	30	45	50
Icu @ 690V AC	20	22	25
Icu @ 250V DC	35	50	70
Icu @ 500V DC	20	35	50
Icu @ 750V DC	18	24	36
Rated ultimate short-circuit breaking capacity Ics (kA)			
Ics @ 240V AC	70	85	100
Ics @ 440V AC	30	45	50
Ics @ 690V AC	20	22	25
Ics @ 250V DC	35	50	70
Ics @ 500V DC	20	35	50
Ics @ 750V DC	18	18	18
Rated short-circuit making capacity Icm (kA)			
Icm @ 240V AC	154	187	220
Icm @ 440V AC	79.2	105	143
Icm @ 690V AC	40	46.2	52.5

---- To be continued ----

Attached Sheet to Cert. No. TA23531M

RATINGS: Tmax XT7 series

Type	XT7S	XT7H	XT7L
Rated Current In at 45°C (A)	800/1000/1250/1600		
Rated ultimate short-circuit breaking capacity Icu (kA)			
Icu @ 240V AC	85	100	200
Icu @ 440V AC	50	65	100
Icu @ 690V AC	30	42	50
Rated ultimate short-circuit breaking capacity Ics (kA)			
Ics @ 240V AC	85	100	200
Ics @ 440V AC	50	65	100
Ics @ 690V AC	30	42	50
Rated short-circuit making capacity Icm (kA)			
Icm @ 240V AC	187	220	440
Icm @ 440V AC	105	154	264
Icm @ 690V AC	63	88.2	105

DOCUMENTATION: Technical catalogue – 1SDC210100D0206 – 2021.04
IEC CB Certificates: SE-107700A2, SE-109175, SE-109178,
CN56024, SE-101368A1, SE-101369A2, SE-101370A1,
SE-101371A2, CN52503, CN52501, CN45653, CN60885,
SE-90444A1, SE-90445A1

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