



**TYPE APPROVAL CERTIFICATE
N. ELE004812CS/002**

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

<i>Description</i>	Circuit breaker
<i>Type</i>	Tmax T6 Series: T6 N - S - H / 630 - 800 -1000
<i>Applicant</i>	ABB SpA - ABB Sace Division Via Baioni , 35 24123 Bergamo Italy
<i>Manufacturer</i>	ABB SpA - ABB Sace Division Via Enrico Fermi, 14 03100 Frosinone Italy
<i>Testing Standards</i>	IEC 60947-2

Issued in **Genova** on **January 11, 2012.**

This certificate is valid until **January 10, 2017**

RINA

Valerio Bonanni

Genova, January 11, 2012

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Tmax T6 Series

- Circuit breaker type Tmax T6N 630.

Circuit breaker type	T6N 630		
Relay type	Thermomagnetic or Electronic releases (*)		
Rated Voltage (Ue)	V	440	690
Rated Current (In)	A	630	630
Ambient temperature	°C	45	45
Rated Frequency	Hz	50-60	50-60
Rated service short circuit breaking capacity (Ics)	kA	30	15
Rated ultimate short circuit breaking capacity (Icu)	kA	30	20
Rated short circuit making capacity (Icm)	kA	63	40
Power Factor		0.25	0.25
Utilization Category		B	B

- Circuit breaker type Tmax T6N 800.

Circuit breaker type	T6N 800		
Relay type	Thermomagnetic or Electronic releases (*)		
Rated Voltage (Ue)	V	440	690
Rated Current (In)	A	800	800
Ambient temperature	°C	45	45
Rated Frequency	Hz	50-60	50-60
Rated service short circuit breaking capacity (Ics)	kA	30	15
Rated ultimate short circuit breaking capacity (Icu)	kA	30	20
Rated short circuit making capacity (Icm)	kA	63	40
Power Factor		0.25	0.25
Utilization Category		B	B

- Circuit breaker type Tmax T6N 1000.

Circuit breaker type	T6N 1000		
Relay type	Thermomagnetic or Electronic releases (*)		
Rated Voltage (Ue)	V	440	690
Rated Current (In)	A	1000	1000
Ambient temperature	°C	45	45
Rated Frequency	Hz	50-60	50-60
Rated service short circuit breaking capacity (Ics)	kA	30	15
Rated ultimate short circuit breaking capacity (Icu)	kA	30	20
Rated short circuit making capacity (Icm)	kA	63	40
Power Factor		0.25	0.25
Utilization Category		B	B

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Tmax T6 Series

- Circuit breaker type Tmax T6S 630.

Circuit breaker type	T6S 630		
Relay type	Thermomagnetic or Electronic releases (*)		
Rated Voltage (Ue)	V	440	690
Rated Current (In)	A	630	630
Ambient temperature	°C	45	45
Rated Frequency	Hz	50-60	50-60
Rated service short circuit breaking capacity (Ics)	kA	45	17.3
Rated ultimate short circuit breaking capacity (Icu)	kA	45	22.6
Rated short circuit making capacity (Icm)	kA	94.5	48.7
Power Factor		0.25	0.19
Utilization Category		B	B

- Circuit breaker type Tmax T6S 800.

Circuit breaker type	T6S 800		
Relay type	Thermomagnetic or Electronic releases (*)		
Rated Voltage (Ue)	V	440	690
Rated Current (In)	A	800	800
Ambient temperature	°C	45	45
Rated Frequency	Hz	50-60	50-60
Rated service short circuit breaking capacity (Ics)	kA	45	17.3
Rated ultimate short circuit breaking capacity (Icu)	kA	45	22.6
Rated short circuit making capacity (Icm)	kA	94.5	48.7
Power Factor		0.25	0.19
Utilization Category		B	B

- Circuit breaker type Tmax T6S 1000.

Circuit breaker type	T6S 1000		
Relay type	Thermomagnetic or Electronic releases (*)		
Rated Voltage (Ue)	V	440	690
Rated Current (In)	A	1000	1000
Ambient temperature	°C	45	45
Rated Frequency	Hz	50-60	50-60
Rated service short circuit breaking capacity (Ics)	kA	45	17.3
Rated ultimate short circuit breaking capacity (Icu)	kA	45	22.6
Rated short circuit making capacity (Icm)	kA	94.5	48.7
Power Factor		0.25	0.19
Utilization Category		B	B

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TYPE APPROVAL CERTIFICATE N. ELE004812CS/002

Tmax T6 Series

- Circuit breaker type Tmax T6H 630.

Circuit breaker type	T6H 630		
Relay type	Thermomagnetic or Electronic releases (*)		
Rated Voltage (Ue)	V	440	690
Rated Current (In)	A	630	630
Ambient temperature	°C	45	45
Rated Frequency	Hz	50-60	50-60
Rated service short circuit breaking capacity (Ics)	kA	50	19.5
Rated ultimate short circuit breaking capacity (Icu)	kA	50	25.5
Rated short circuit making capacity (Icm)	kA	105	53
Power Factor		0.25	0.23
Utilization Category		B	B

- Circuit breaker type Tmax T6H 800.

Circuit breaker type	T6H 800		
Relay type	Thermomagnetic or Electronic releases (*)		
Rated Voltage (Ue)	V	440	690
Rated Current (In)	A	800	800
Ambient temperature	°C	45	45
Rated Frequency	Hz	50-60	50-60
Rated service short circuit breaking capacity (Ics)	kA	50	19.5
Rated ultimate short circuit breaking capacity (Icu)	kA	50	25.4
Rated short circuit making capacity (Icm)	kA	105	53.2
Power Factor		0.25	0.22
Utilization Category		B	B

- Circuit breaker type Tmax T6H 1000.

Circuit breaker type	T6H 1000		
Relay type	Thermomagnetic or Electronic releases (*)		
Rated Voltage (Ue)	V	440	690
Rated Current (In)	A	1000	1000
Ambient temperature	°C	45	45
Rated Frequency	Hz	50-60	50-60
Rated service short circuit breaking capacity (Ics)	kA	50	19.5
Rated ultimate short circuit breaking capacity (Icu)	kA	50	25.5
Rated short circuit making capacity (Icm)	kA	105	53
Power Factor		0.25	0.23
Utilization Category		B	B

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TYPE APPROVAL CERTIFICATE N. ELE004812CS/002

Tmax T6 Series

- Circuit breaker type Tmax T6L 630.

Circuit breaker type	T6L 630		
Relay type	Thermomagnetic or Electronic releases (*)		
Rated Voltage (Ue)	V	440	690
Rated Current (In)	A	630	630
Ambient temperature	°C	45	45
Rated Frequency	Hz	50-60	50-60
Rated service short circuit breaking capacity (Ics)	kA	60	23.4
Rated ultimate short circuit breaking capacity (Icu)	kA	80	30.3
Rated short circuit making capacity (Icm)	kA	176	63
Power Factor		0.25	0.23
Utilization Category		B	B

- Circuit breaker type Tmax T6L 800.

Circuit breaker type	T6L 800		
Relay type	Thermomagnetic or Electronic releases (*)		
Rated Voltage (Ue)	V	440	690
Rated Current (In)	A	800	800
Ambient temperature	°C	45	45
Rated Frequency	Hz	50-60	50-60
Rated service short circuit breaking capacity (Ics)	kA	60	23.4
Rated ultimate short circuit breaking capacity (Icu)	kA	80	30.3
Rated short circuit making capacity (Icm)		176	63
Power Factor		0.20	0.23
Utilization Category		B	B

- Circuit breaker type Tmax T6L 1000.

Circuit breaker type	T6L 1000		
Relay type	Thermomagnetic or Electronic releases (*)		
Rated Voltage (Ue)	V	440	690
Rated Current (In)	A	1000	1000
Ambient temperature	°C	45	45
Rated Frequency	Hz	50-60	50-60
Rated service short circuit breaking capacity (Ics)	kA	60	23.4
Rated ultimate short circuit breaking capacity (Icu)	kA	80	30.3
Rated short circuit making capacity (Icm)	kA	176	63
Power Factor		0.20	0.23
Utilization Category		B	B

Notes:

(*) Electronic release type: PR221DS, PR222DS or PR223DS/EF.

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