

THAILAND

I. RATIONALE FOR REGULATION

COUNTRY	RATIONALE FOR REGULATION
Thailand	Consumer Protection.

II. REGULATION BODY

COUNTRY	REGULATORY BODY
Thailand	Thai Industrial Standards Institute (TISI) under the Ministry of Industry.

III. LEGISLATIVE FRAMEWORK

COUNTRY	LEGISLATIVE FRAMEWORK
Thailand	Industrial Product Standards Act. (1968) Industrial Product Standards Act(No.2), B.E. 2522 (1997) Industrial Product Standards Act(No.3), B.E. 2522 (1997) Industrial Product Standards Act(No.4), B.E. 2531 (1989) Industrial Product Standards Act(No.5), B.E. 2535 (1992) Industrial Product Standards Act(No.6), B.E. 2548 (2005) Industrial Product Standards Act(No.7), B.E. 2558 (2015) Industrial Product Standards Act(No.8), B.E. 2562 (2019)

IV. MANDATORY STANDARDS

REVISED MATRIX ON MANDATORY STANDARDS FOR THAILAND (AS OF April, 2025)

No.	Product type or grouping	STANDARDS						HS Code
		Domestic Standards	Please tick box if mandatory	Relevant International Standards	Extent of Alignment	State reason if MOD	Indicate whether requires: Safety (S), Environment (E), EMC, or combination	
1	Tungsten Filament Lamps	TIS 4 Part 1-2558 (2015)	√	IEC 60432-1 Ed 2.2 (2012)	MOD	Cabs E26, E26d and E26/50x39 are not allowed.	S	8539.22.91 8539.22.93 8539.29.50 8539.29.90 8539.22.92 8539.22.99 8539.29.60
2	PVC insulated Copper cables	TIS 11 Part 3-2553 (2010) TIS 11 Part 4-2553 (2010) TIS 11 Part 5-2553 (2010) TIS 11 Part 101-2559(2016)	√	IEC 60227-3 Ed 2.1 (1997) IEC 60227-4 Ed 2.1 (1997) IEC 60227-5 Ed 2.2 (2003) All Parts of IEC 60227	IDT IDT IDT NEQ	-	S	8544.49.41 8544.49.42 8544.49.49
3	Ballast for fluorescent lamps	TISI 23-2558 (2015)	√	IEC 61347-2-8 (2002), Am 1 (2006)	MOD	(Editorial modification)	S	8504.10.00
4	Starters for fluorescent lamps	TIS 183-2562 (2019)	√	IEC 60155:1993+Amd1:1995+Amd2:2006	IDT	-	S	8536.50.99
5	PVC insulated aluminium cables	TIS 293-2541 (1998)	√	-	-	No IEC standard available	S	8544.49.41 8544.49.42 8544.49.49

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		Domestic Standards	Please tick box if mandatory	Relevant International Standards	Extent of Alignment	State reason if MOD	Indicate whether requires: Safety (S), Environment (E), EMC, or combination	
6	Lampholders for tubular fluorescent lamps and starterholders	TIS 344-2562 (2019)	√	IEC 60400 Ed 7.2 (2008+Amd1:2011+Am d:2014)	IDT	-	S	8536.61.10 8536.61.91
7	Electric irons	TIS 60335 Part 2(3)-2567 Effective date 24 Dec 2025	√	(IEC 60335-2-3-2022)	IDT		S	8516.40.90
8	Motor-compressors	TIS 812-2558 (2015)	√	IEC 60335-2-34 Ed 5.0 (2012)	IDT	Remark Class 0 appliances and class 0I appliances shall comply with Annex P of IEC 60335-1.	S	8414.30.90
9	Electrical Switches	TIS 824-2551 (2008)	√	IEC 60669-1:1998+Amd1:1999+Amd2:2006	IDT		S	8536.50.61 8536.50.69 8536.50.99
10	Grills, toasters and similar portable cooking appliances	TIS 1641-2552(2009)	√	IEC 60335-2-9 Ed 5.2 (2006)	MOD	Sub-clause 6.1 Modification : Appliances shall be class I, class II or class III.	S	8516.60.90 8516.72.00 8516.79.90

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		Domestic Standards	Please tick box if mandatory	Relevant International Standards	Extent of Alignment	State reason if MOD	Indicate whether requires: Safety (S), Environment (E), EMC, or combination	
11	Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs)	TIS 909-2548 (2005)	√	IEC 61009-1 (2003)	MOD	<u>Sub-clause 1 Replace</u> “for rated voltages not exceeding 440 V a.c.,” with “for rated voltages between 220 and 440 V a.c.,” <u>Sub-clause 5.3.1</u> Delete the second row of the table in subclause 5.3.1 <u>Sub-clause 9.22.1.3</u> Replace the testing temperature “25 °C ±3 °C” with “37 °C ±3 °C”	S	8536.30.90 8536.50.20
12	AC electric fans	TIS 934-2558 (2015)	√	IEC 60335-2-80 Ed 2.2 (2008)	IDT	<u>Remark</u> Class 0 appliances and class 0I appliances shall comply with Annex P of IEC 60335-1.	S	8414.51.10 8414.51.91 8414.51.99 8414.59.30 8414.59.41 8414.59.49 8414.59.50 8414.59.91 8414.59.99
13	Double-Capped Fluorescent lamps	TIS 956-2557 (2014)	√	IEC 61195 (1999) + Am 1 (2012)	MOD	(Editorial modification)	S	8539.31.10 8539.31.20

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		Domestic Standards	Please tick box if mandatory	Relevant International Standards	Extent of Alignment	State reason if MOD	Indicate whether requires: Safety (S), Environment (E), EMC, or combination	
14	Electric rice-cookers	TIS 1039-2547 (2004)	√	IEC 60335-2-15 (2002-07)	MOD	(Editorial modification) <u>Remark</u> Class 0 appliances and class 0I appliances shall comply with Annex P of IEC 60335-1.	S	8516.60.10

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		Domestic Standards	Please tick box if mandatory	Relevant International Standards	Extent of Alignment	State reason if MOD	Indicate whether requires: Safety (S), Environment (E), EMC, or combination	
15	Mains operated electronic and related apparatus for household and similar general use - Radio - Television - Amplifier - Disc player - Video game console - Wireless microphone receiver - Radio receiver - Television receiver - Satellite receiver - Speaker and amplifier - Signal converter - Signal processor - Audio mixer - Electronic musical instrument - Audio and video player - Network audio/video receiver - Cable TV head-end receiver - Audio and video converter - Supply equipment (adaptor) for electronics - Supply equipment (adaptor) for smart phone and tablet	TIS 62368 Part 1-2563 (2020)	√	IEC 62368-1 (2018)	IDT		S	8504 40.30 8518.10.11 8518.10.19 8518.21.10 8518.21.90 8518.22.10 8518.22.90 8518.40.40 8518.40.90 8518.50.10 8518.50.20 8518.50.90 8519.30.00 8519.81.10 8519.81.20 8519.81.30 8519.81.69 8519.81.79 8519.81.99 8519.89.20 8521.10.90 8521.90.19 8521.90.99 8527.12.00

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		Domestic Standards	Please tick box if mandatory	Relevant International Standards	Extent of Alignment	State reason if MOD	Indicate whether requires: Safety (S), Environment (E), EMC, or combination	
								8527.13.10 8527.13.90 8527.19.20 8527.19.90 8528.71.11 8528.71.19 8528.71.91 8528.71.99 8528.72.91 8528.72.92 8528.72.99 8528.73.00 9207.10.00 9207.90.00
16	Uninterruptible power system	TIS 1291 Part 1-2553 (2010) TIS 1291 Part 2-2553 (2010) TIS 1291 Part 3-2555 (2012)	√	IEC 62040-1 Ed 1.0 (2008) IEC 62040-2 Ed 2.0 (2005) IEC 62040-3 Ed 1.0 (1999)	IDT IDT IDT	-	S	8504.40.11 8504.40.19
17	Tumbler dryers	TIS 1389-2559 (2016)	√	IEC 60335-2-11 Ed 7.1 (2012)	IDT	<u>Remark</u> Class 0 appliances and class 0I appliances shall comply with Annex P of IEC 60335-1.	S	8451.21.00 8451.29.00

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		Domestic Standards	Please tick box if mandatory	Relevant International Standards	Extent of Alignment	State reason if MOD	Indicate whether requires: Safety (S), Environment (E), EMC, or combination	
18	Washing machines	TIS 1463-2556 (2013)	√	IEC 60335-2-7 Ed 7.0 (2008-06)	IDT	<u>Remark</u> Class 0 appliances and class 0I appliances shall comply with Annex P of IEC 60335-1.	S	8450.11.10 8450.11.90 8450.12.10 8450.12.90 8450.19.11 8450.19.19 8450.19.91 8450.19.99 8450.20.00
		TIS 1462-2562 (2019)	√	No Reference	-	-	E	
19	Frying pans and deep fat fryers (quantity of oil not exceeding 5 l)	TIS 60335 Part 2(13)-2564 Effective date: Oct 1, 2025	√	IEC 60335-2-13 Ed6.1 (2016)	IDT		S	8516.60.90

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		Domestic Standards	Please tick box if mandatory	Relevant International Standards	Extent of Alignment	State reason if MOD	Indicate whether requires: Safety (S), Environment (E), EMC, or combination	
20	Instantaneous water heaters	TIS 1693-2547 (2004)	√ -	IEC 60335-2-35 (2002-10)	IDT	<u>Remark</u> Class 0 appliances and class 0I appliances shall comply with Annex P of IEC 60335-1.	S	8516.10.11 8516.10.19
21	Microwave ovens	TIS 60335 Part 2(25)-2565 Effective date: Dec 30, 2025		IEC 60335-2-25 Ed7.0 (2020)	IDT		S	8516.50.00
22	Lighting and similar equipment : radio disturbance limits	TIS 1955-2551 (2008)	√	CISPR 15 Ed 7.1 (2007)	MOD	(Editorial modification)	EMC	8504.10.00 8504.31.93 8504.31.99 8504.40.30 8539.31.10 8539.31.20 8539.31.30 8539.31.90 8539.39.10 8539.39.30 8539.39.90 8539.50.00 9405.10.91 9405.10.92 9405.10.99 9405.20.90 9405.30.00 9405.40.20 9405.40.40 9405.40.50 9405.40.60 9405.40.99 9405.60.90

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		Domestic Standards	Please tick box if mandatory	Relevant International Standards	Extent of Alignment	State reason if MOD	Indicate whether requires: Safety (S), Environment (E), EMC, or combination	
23	Appliances for skin or hair care : safety requirement	TIS 60335 Part 2(23)-2564 Effective date: Oct 1, 2025		IEC 60335-2-23 Ed6.1 (2019)	IDT		S	8516.31.00 8516.32.00 8516.33.00 8516.79.90
24	Electric thermo pots	TIS 2062-2558 (2015)	√	IEC 60335-2-15 Ed 6 (2012)	MOD	(Editorial modification) TIS 2062-2558 Contents of the standard deals with thermo pots only. <u>Remark</u> Class 0 appliances and class 0I appliances shall comply with Annex P of IEC 60335-1.	S	8516.79.90
25	Room Air Conditioners	TIS 2134-2565 (2022) Effective date: April 4, 2026	√	-	-	conform with TIS 2710-2558 (ISO 5151:2010) and TIS 2714 book 1-2558 (ISO 16358-1:2013)	E	8415.10.10 8415.82.91 8415.90.19
		TIS 1529-2561 (2018)	√	IEC 60335-2-40 (2013)	MOD	TIS 1529-2561 Content of the standard applied only air conditioner	S	
26	Household refrigerators and refrigerator-freezer: environmental requirements : energy efficiency	TIS 2186-2561 (2018)	√	-	-	-	E	8418.10.10 8418.21.00 8418.69.30

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27	Household refrigerator and refrigerator-freezer	TIS 2214-2561 (2018)	√	IEC 60335-2-24 2010 + Amd1:2012	MOD	2. Scope ; <i>Modification</i> (1) <i>Ice-cream appliances and Ice-maker requirement are not applicable.</i> (2) <i>Motor-compressor (IEC 60335-2-24) requirement are not applicable.</i> (3) <i>Note 2 dash 4 : Modification 'refrigerator appliance incorporating a battery over than 24 V for the refrigerating function.'</i> (4) <i>Addition Note 3 Thai Industrial Standard cover the following.</i> - <i>Refrigerator appliance not incorporate with enclosure.</i> - <i>Refrigerator appliance assemble with full</i>	S	8418.10.11 8418.10.19 8418.21.00 8418.21.90

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		Domestic Standards	Please tick box if mandatory	Relevant International Standards	Extent of Alignment	State reason if MOD	Indicate whether requires: Safety (S), Environment (E), EMC, or combination	
						<i>refrigerating circuit but not charge refrigerant.</i> <i>- Fixed refrigerator appliance intended to built-in or similar.</i> <i>- Other refrigerator appliance than given in Note 2</i> Subclause 6.1 Addition “Appliances used in Thailand shall be class 0I, class I class II and Class III” <i>Subclause 7.1</i> <i>Addition :</i> <i>- Climatic class of the Refrigerator appliance for use in Thailand shall be SN N ST or T</i> <i>- Single component refrigerant shall be mark number refrigerant or mark the</i>		

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						<i>chemical name and the chemical formula;</i>		
28	Secondary cells and batteries containing alkaline or other non-acid electrolytes - safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications	TIS 2217-2548 (2005)	√	IEC 62133 Ed.1.0 (2002)	IDT	-	S	8507.30.90 8507.40.90 8507.50.90 8507.60.10 8507.60.90
29	Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs) - Part 1 : general rules	TIS 2425-2560 (2017)	√	IEC 61008-1 Ed.2.1 (2002)	MOD	(Editorial modification) Subclause 5.3.3 <i>Replacement:</i> "Standard values of rated residual operating current are 0.006 - 0.01 - 0.01 - 0.015 - 0.3 - 0.5 A."	S	8536.30.90 8536.50.20
30	Ballasts for tubular fluorescent lamps: energy efficiency requirements	TIS 2337-2557 (2014)	√	IEC 62442-1 (2011)	NEQ	-	E	8504.10.00
31	Self-Ballasts for general Lighting service	TIS 2234-2557 (2014)	√	IEC 60968 (2012)	MOD	(Editorial modification)	S	8539.31.30

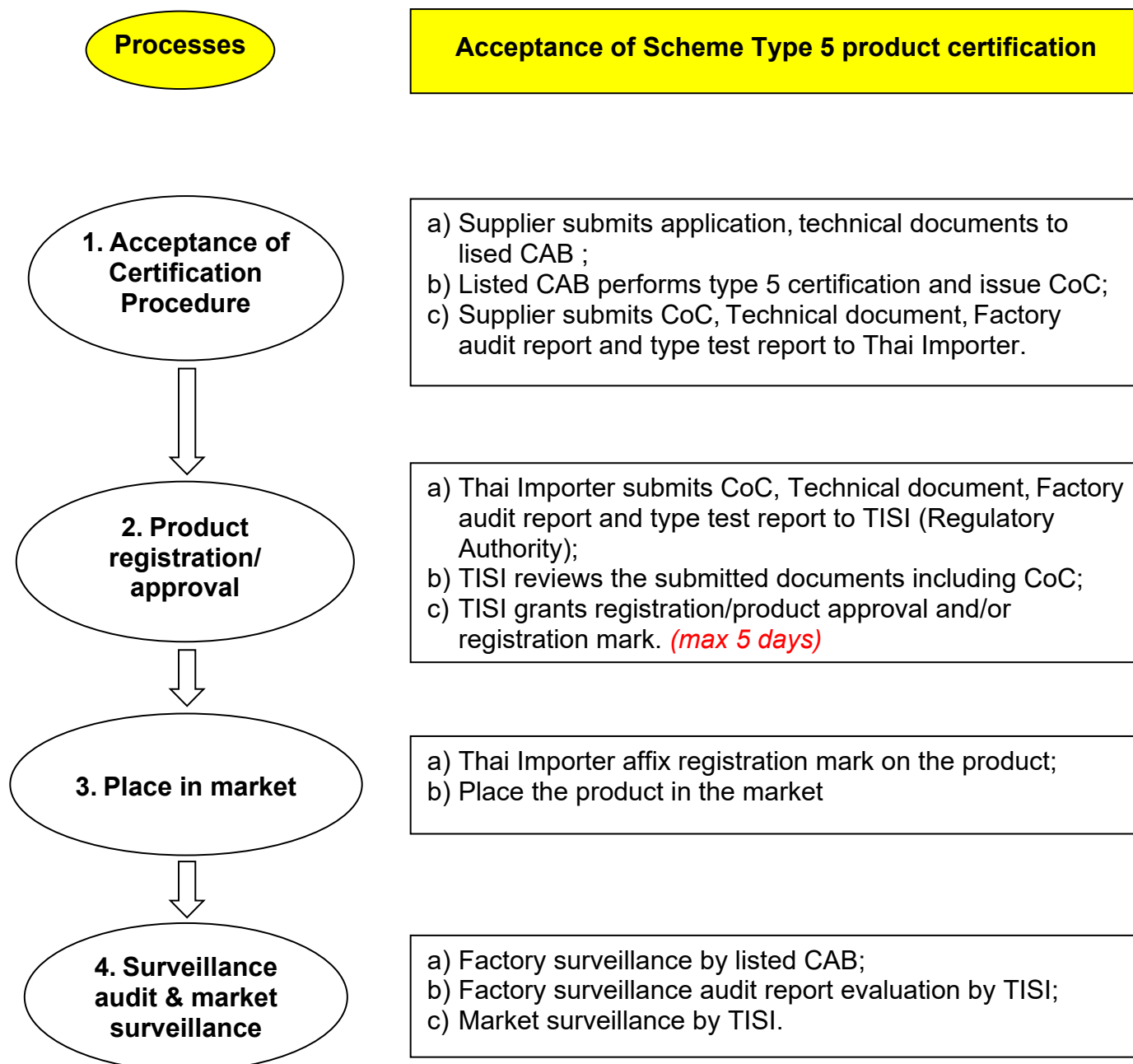
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		Domestic Standards	Please tick box if mandatory	Relevant International Standards	Extent of Alignment	State reason if MOD	Indicate whether requires: Safety (S), Environment (E), EMC, or combination	
32	Single-capped fluorescent lamps	TIS 2235-2557 (2014)	√	IEC 61199 (2011)	MOD	(Editorial modification)	S	8539.31.10 8539.31.20 8539.31.90
33	Cord extension sets	TIS 2432-2555 (2012)	√	IEC 60884-2-7 (2011)	MOD	Plug and socket Configuration-conform with TISI 166	S	8544.42.94 8544.42.96 8544.42.97
34	Portable Power Bank – Safety Requirements	TIS 2879-2560 (2017)	√	-	-	No IEC standard available, but used IEC 60950 and IEC 62133 as the references.	S	8507.30.90 8507.40.90 8507.50.90 8507.60.90
35	Plugs and Sock-Outlets for household and similar purposes	TIS 166-2549 (2006)	√	-	-	Safety conform with TISI 2162 (IEC 60884-1)	S	8544.42 8536.69
36	Double-capped LED lamps designed to retrofit linear fluorescent lamps	TIS 2779-2562 (2019)	√	IEC 62776 (2016)	IDT	-	S	8539.50 8539.49
37	Self-ballasted LED-lamps for general lighting services by voltage >50 V	TIS 2780-2562 (2019)	√	IEC 62560 (2011)+AMD1:2015	IDT	-	S	8539.50
38	High pressure cleaners and steam cleaners	TIS 60335 Part 2(79)-2563 (2020)	√	IEC 60335-2-79 (2016)	IDT	-	S	8424.89.50
39	Massage appliances	TIS 60335 Part 2(32)-2564 (2021)	√	IEC 60335-2-32 (2019)	IDT	-	S	9019.10.90
40	Air-cleaning appliances	TIS 60335 Part 2(65)-2564 (2021)	√	IEC 60335-2-65 (2015)	IDT	-	S	8421.39.20
41	Deep fat fryers and doughnut fryers (quantity of oil exceeding 5 l but not exceeding 12 l)	TIS 60335 Part 2(37)-2564 (2021)	√	IEC 60335-2-37 Ed6.0 (2017)	IDT	-	S	8516.60.90

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		Domestic Standards	Please tick box if mandatory	Relevant International Standards	Extent of Alignment	State reason if MOD	Indicate whether requires: Safety (S), Environment (E), EMC, or combination	
42	Hot and cool water dispenser and cool water dispenser	TIS 2461-2565 (2022) Effective date: Oct 1, 2025	√	IEC 60335-2-75 (2012)	MOD	Some reference standard was adopted as TIS	S	8418.99
43	Rotating Electrical Machines : AC three phase induction motors	TIS 866 Part 30(101)-2561 Effective date : 18 Apr 2026	√	IEC 60034-30-1 (2014)	IDT	Remark IE1 Minimum for AC three phase induction motors 0.12 kW to 15 kW	E	85.01

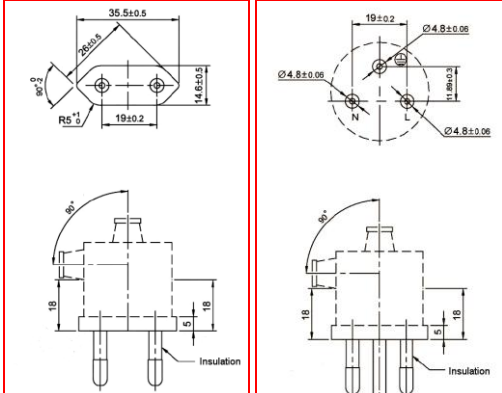
V. MODE OF REGULATION AND TYPES OF CONFORMITY ASSESSMENT REGIMES

COUNTRY	TYPES OF CONFORMITY ASSESSMENT REGIMES	MODE OF REGULATION
Thailand	Certification	Product Certification System of TISI consists of two phases: 1. <u>License Granting</u> Granting a license is based on: 1.1 The results of tests which are conducted on products in accordance with the application standards. Consideration on this matter may be: (1) Product testing by designated laboratories, or (2) Product testing by testing laboratories being accreditation to ISO/IEC 17025, or (3) Product testing by testing at manufacturer's premises under supervision of TISI. 1.2 The results of manufacturer's quality control system assessment according to specified conditions. Consideration on this matter may be: (1) Factory visit for quality control system assessment, or (2) Acceptation of quality system certificates, or (3) Acceptation of CoC from the ASEAN Listed CB. 2. <u>Surveillance</u> After granting a license, the licensee will be followed up by: 2.1 Product sampling from factories for testing, 2.2 Product sampling from market for testing, 2.3 Product sampling for testing each import, 2.4 Factory visit for audit.

VI. FLOWCHART OF MEMBER COUNTRIES' REGIME



VII. MAINS VOLTAGE, FREQUENCY AND MAINS PLUG CONFIGURATION

Country	Mains Voltage and Tolerance	Mains Frequency and Tolerance	Applicable Legislation	Mains Plug Configuration				Diagram of Mains Plug Configuration-
				Domestic Standard	Please tick box if mandatory	Relevant International Standard	Extent of Alignment -	
Thailand	<u>Bangkok Metropolitan Area</u> 230 volts 1 phase 2 wires with earth tolerance Max 237 V and Min 214 V	50 Hz ± 1%	NA	TIS 166-2549	√	-	-	
	<u>Other Areas</u> 220 volts 1 phase 2 wires tolerance Max 240 V and Min 200 V							
	<u>Bangkok Metropolitan Area</u> 400 volts 3 phase 4 wires tolerance Max 410 V and Min 371 V	50 Hz ± 1%	NA	-	-	-	-	TIS 166-2549 (2006)
	<u>Other Areas</u> 380 volts 3 phase 4 wires tolerance Max 418 V and Min 342 V							

VIII. Marking/Logo



Voluntary certification mark



Mandatory certification mark

IX. Other information

None

X. CONTACT PERSON

Country	Contact Person and Address
Thailand	Mr. Norapong Woraakom Standards Division Thai Industrial Standards Institute (TISI), Ministry of Industry, Rama VI Street, Bangkok 10400 Thailand Telephone (662) 430 6828, Telefax (662) 202 3532 E-mail : nw_tisi@yahoo.com