

Schedule

Issue date: 16 June 2025
Valid Until: -



NO: SAMM 765

(Issue 2, 16 June 2025 replacement
of SAMM 765 dated 16 June 2025)

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LABORATORY LOCATION/ CENTRAL OFFICE:	High Voltage Test Lab Sdn. Bhd. Lot 6, Jalan Permata 2 Arab Malaysian Industrial Park 71800 Nilai, Negeri Sembilan , 71800, NEGERI SEMBILAN MALAYSIA
	
ACCREDITED SINCE :	16 JUNE 2025
FIELD(S) OF TESTING:	ELECTRICAL

This laboratory has demonstrated its technical competence to operate in accordance with MS ISO/IEC 17025:2017 (ISO/IEC 17025:2017).

This laboratory's fulfillment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations. The management system requirements in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001 (see Joint ISO-ILAC-IAF Communiqué dated April 2017).

CENTRAL LOCATION:	High Voltage Test Lab Sdn. Bhd. Lot 6, Jalan Permata 2 Arab Malaysian Industrial Park 71800 Nilai, Negeri Sembilan , 71800, Negeri Sembilan
FIELD(S) OF TESTING :	ELECTRICAL,

SCOPE OF TESTING : ELECTRICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Power Transformer Up To 33 Kv, Cast Resin & Oil Immersed Type	Routine Test Transformer:	IEC 60076-11:2018 clause 14.2.1 IEC 60076-1:2011 clause 11.2
	1. Winding resistance	IEC 60076-11:2018 clause 14.2.2 IEC 60076-1:2011 clause 11.3
	2. Voltage ratio and check of phase displacement	IEC 60076-11:2018 clause 14.2.4 IEC 60076-1:2011 clause 11.5
	3. No-load loss and no-load current	IEC 60076-11:2018 clause 14.2.3 IEC 60076-1:2011 clause 11.4
	4. Short-circuit impedance and load-loss	IEC 60076-11:2018 clause 14.2.5 IEC 60076-3:2013+AMD1:2018 clause 10
	5. Dielectric test • Separate-source AC Withstand voltage test	

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	• Induced AC withstand voltage test	IEC 60076-11:2018 clause 14.2.6 IEC 60076-3:2013+AMD1:2018 clause 11.2
	6. Measurement of partial discharge (for cast resin transformer)	IEC 60076-11:2018 clause 14.2.7
	Type Test of Transformer 1. Lightning impulse test	IEC 60076-3:2013+AMD1:2018 clause 13 IEC 60076-11:2018 clause 14.3.1
	2. Temperature rise test (for cast resin transformer)	IEC 60076-11:2018 clause 14.3.2
	3. Temperature rise test (for oil transformer)	IEC 60076-2:2011 clause 7.3
Current Transformer (5 To 2000)/5 A, (5 To 2000)/1 A, Burden 2.5, 3.75, 5, 10 And 15 Va, Power Factor 0.8 To 1.0, Accuracy Class 0.1, 0.2, 0.5, 1, 0.2s And 0.5s	Accuracy Test 1. Ratio error 2. Phase displacement error	IEC 61869-2:2012 clause 7.3.5
Ac Metal-enclosed Switchgear 1 Kv To 52 Kv	Type Test of Switchgear: 1. Lightning impulse test	IEC 62271-200:2021 +AMD1:2024 clause 7.2 IEC 62271-1:2017 +AMD1:2021 clause 7.2.7.3
	2. Partial discharge test	IEC 62271-200:2021 +AMD1:2024 clause 7.2.10 IEC 62271-1:2017 +AMD1:2021 clause 7.2.10
	3. Power frequency voltage test	IEC 62271-200:2021 +AMD1:2024 clause 7.2.7.2 IEC 62271-1:2017 +AMD1:2021 clause 7.2.7
Gas-insulated Metal-enclosed Switchgear From 52 Kv To 72.5 Kv	Type Test of Switchgear: 1. Lightning impulse test	IEC 62271-203:2022 clause 7.2.7.3 IEC 62271-1:2017 +AMD1:2021 clause 7.2.7
Single Phase & Three Phase Electronic Energy Meter	1. Limit of error due to variation of current	IEC 62053-21:2020, clause 7.9 IEC 62053-22:2020, clause 7.9 IEC 62053-23:2020, clause 7.9
	2. Test of starting and no-load condition	IEC 62053-21:2020, clause 7.5 and clause 7.6 IEC 62053-22:2020, clause 7.5 and clause 7.6 IEC 62053-23:2020, clause 7.5 and clause 7.6
	3. Meter constant	IEC 62053-21:2020, clause 7.4 IEC 62053-22:2020, clause 7.4 IEC 62053-23:2020, clause 7.4

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Active Energy Class 0.2s, 0.5s, 1 & 2 Reactive Energy Class 2	1. Limit of error due to variation of current	IEC 62053-21:2020, clause 7.9 IEC 62053-22:2020, clause 7.9 IEC 62053-23:2020, clause 7.9
	2. Test of starting and no-load condition	IEC 62053-21:2020, clause 7.5 and clause 7.6 IEC 62053-22:2020, clause 7.5 and clause 7.6 IEC 62053-23:2020, clause 7.5 and clause 7.6
	3. Meter constant	IEC 62053-21:2020, clause 7.4 IEC 62053-22:2020, clause 7.4 IEC 62053-23:2020, clause 7.4

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