

کمیته ملی برق و الکترونیک ایران
Iranian National Electrotechnical Committee



نشست ترمیم ساختار کمیته فنی

INEC TC 37 متناظر با IEC TC 37

“Surge arresters”

«برقگیرها»

مکان: جلسه مجازی (سامانه جلسات آنلاین سازمان)

۱۳۹۹/۰۳/۳۱

« بسمه تعالی »

کمیته ملی برق و الکترونیک ایران (INEC)

دستور کار: نشست ترمیم ساختار کمیته فنی INEC TC 37

زمان: روز شنبه مورخ ۹۹/۰۳/۳۱ از ساعت ۱۰:۰۰ الی ۱۲:۰۰

مکان: جلسه مجازی (جهت دریافت لینک شرکت در جلسه با شماره تلفن ۰۲۱-۸۸۶۵۴۰۶۰ تماس حاصل شود).

ردیف	ساعت	موضوع
۱	۱۰:۰۰ الی ۱۰:۰۵	تلاوت قرآن مجید
۲	۱۰:۲۰ الی ۱۰:۰۵	خوشامدگویی
۳	۱۰:۲۰ الی ۱۰:۳۰	الف- اهداف، وظایف، ساختار و فعالیت های سازمان بین المللی الکتروتکنیک (IEC) و کمیته ملی برق و الکترونیک ایران (INEC) ب- ساختار و فعالیت های کمیته فنی INEC TC 37
۴	۱۰:۳۰ الی ۱۱:۵۵	انتخاب هیات رئیسه
۵	۱۱:۵۵ الی ۱۲:۰۰	اعلام نتایج و اختتام جلسه

TC 37

Electrical equipment in medical practice

Scope of TC 37

To prepare international standards regarding:

- Specifications for surge arresters and other surge protective devices (SPDs)
- The choice of arresters to provide adequate protection of the system with satisfactory reliability, and the definitions of conditions of use enabling this result to be obtained

Officers of TC 37

- **Chairman: Mr Volker Hinrichsen (DE)**
- **Secretary: Mr Michael G. Comber (US)**
- **Assistant Secretary: Mr Kezhen Shen (US)**
- **Secretariat: United States of America**
- **Participating countries: 28**
- **Observer Countries: 16**

Structure of TC 37

Subcommittees	
SC 37A	Low-voltage surge protective devices
SC 37B	Components for low-voltage surge protection
Project Team	
PT 60099-11	Prepare Surge Arresters - Part 11: Metal-oxide Surge Arresters to Protect Power Line Insulation
Maintenance Teams	
MT 1	Revision of Standard test specification for gas discharge tubes and metal-oxide varistor components that are used in surge protective devices
MT 2	Revision of Standard test specification for silicon avalanche diode and thyristor surge suppressor components that are used in surge protective devices
Editing Group	
EG 4	Editing Group

Members of TC 37

Country	Country Code	P/O Status	IEC Membership
Austria	AT	O-Member	Full Member
Australia	AU	P-Member	Full Member
Belgium	BE	O-Member	Full Member
Bulgaria	BG	O-Member	Full Member
Brazil	BR	P-Member	Full Member
Canada	CA	P-Member	Full Member
Switzerland	CH	P-Member	Full Member
China	CN	P-Member	Full Member
Czech Republic	CZ	O-Member	Full Member
Germany	DE	P-Member	Full Member
Denmark	DK	P-Member	Full Member
Egypt	EG	P-Member	Full Member
Spain	ES	P-Member	Full Member
Finland	FI	O-Member	Full Member
France	FR	P-Member	Full Member
United Kingdom	GB	P-Member	Full Member
Greece	GR	O-Member	Full Member
Croatia	HR	O-Member	Full Member
Hungary	HU	O-Member	Full Member
Indonesia	ID	O-Member	Full Member
Ireland	IE	P-Member	Full Member
India	IN	P-Member	Full Member
Iran	IR	O-Member	Full Member
Italy	IT	P-Member	Full Member
Japan	JP	P-Member	Full Member
Korea, Republic of	KR	P-Member	Full Member
Mexico	MX	O-Member	Full Member
Netherlands	NL	P-Member	Full Member
Norway	NO	P-Member	Full Member
New Zealand	NZ	O-Member	Full Member
Pakistan	PK	P-Member	Full Member
Poland	PL	P-Member	Full Member
Portugal	PT	P-Member	Full Member
Romania	RO	O-Member	Full Member
Serbia	RS	O-Member	Full Member
Russian Federation	RU	P-Member	Full Member
Sweden	SE	P-Member	Full Member
Singapore	SG	O-Member	Full Member
Slovenia	SI	P-Member	Full Member
Turkey	TR	O-Member	Full Member
Ukraine	UA	P-Member	Full Member
United States of America	US	P-Member	Full Member
South Africa	ZA	P-Member	Full Member

TC 37 Liaisons

Internal IEC Liaison			
TC 36	Insulators		Mr Matthias Schubert
TC 42	High-voltage and high-current test techniques	Mr Anders Bergman	
TC 99	Insulation co-ordination and system engineering of high voltage electrical power installations above 1,0 kV AC and 1,5 kV DC	Mr Jiansheng Wang	Mr Frédérick Dubé
Liaison A			
CIGRE/SC A2	International council on large electric systems - Transformers	Mr Hans Sjöstedt	
CIGRE/SC A3	High voltage equipment	Mr Hans Sjöstedt	
CIGRE/SC C4	Power system performances	Mr James Taylor Mr Jonathan Woodworth	

TC 37 Working Groups Liaisons

Working Groups	Description	Organization	Incoming liaison representative	Outgoing liaison representative
Liaison C				
MT 4	Metal-oxide surge arresters - Maintenance of high voltage surge arrester test standards	IEEE/PES/SPDC	Mr Jonathan Woodworth	

SC 37A

Low-voltage surge protective devices

SC 37A Scope

To prepare international standards for surge protective devices (SPDs) for protection against indirect and direct effects of lightning and/or against other transient overvoltages and for information on their selection and application. These devices are to be used in power, telecommunications and/or signalling networks with voltages up to 1000 V a.c. and 1500 V d.c. Requirements for selection and erection of SPDs in electrical installations of buildings as covered by TC 64 are excluded..

SC 37A Officers:

- ❖ **Chairman: Mr Alain Rousseau (FR)**
- ❖ **Secretary: Mr Kezhen Shen (US)**
- ❖ **Secretariat: United States of America**
- ❖ **Participating countries: 24**
- ❖ **Observer countries: 17**

SC 37A Structure

Working Groups	WG 3	Selection and application principles for low-voltage surge protective devices
	WG 4	Surge protective devices of telecommunication and signalling networks
	WG 5	Low-voltage surge protection devices
Ad-Hoc Groups	ahG 9	“SPD+AF” (SPD with additional functions)
	ahG 10	SPD Specific Disconnecter

SC 37A Liaisons

Committee	Description	Incoming liaison representative	Outgoing liaison representative
Internal IEC Liaison			
SC 37B	Components for low-voltage surge protection		Mr Vincent Crevenat
TC 64	Electrical installations and protection against electric shock	Mr Alain Rousseau	
TC 81	Lightning protection		Mr Antony Surtees
TC 82	Solar photovoltaic energy systems		
TC 109	Insulation co-ordination for low-voltage equipment		Mr Hubert Bachl-Hesse
Liaison B			
ITU-T	International Telecommunication Union - Telecommunication Standardization Bureau	Mr chuanyou Dai	

SC 37A Working Groups Liaisons

Working Groups	Description	Organization	Incoming liaison representative	Outgoing liaison representative
Liaison C				
WG 3	Selection and application principles for low-voltage surge protective devices	IEEE/PES/SPDC	Mr Joseph Koepfinger	

SC 37B

Components for low-voltage surge protection

SC 37B Scope

To prepare international standards for components for low-voltage surge protection. These SPCs (surge protection components) are used in power, telecommunication and/or signalling networks with voltages up to 1000 V a.c. and 1500 V d.c.

SC 37B Officers

- ❖ **Chairman: Mr Vincent Crevenat (FR)**
- ❖ **Secretary: Mr Kezhen Shen (US)**
- ❖ **Secretariat: United States of America**
- ❖ **Participating countries: 10**
- ❖ **Observer countries: 23**

SC 37B Structure

Working Groups	WG 1	Performance requirements, test methods and application principles for gas discharge tubes and metal-oxide varistor components
	WG 2	Performance requirements, test methods and application principles for Silicon PN junction components such as Silicon avalanche diodes and thyristor surge suppressors
	WG 3	Performance requirements, test methods and application principles for Surge Isolation Transformer components
PT 61643-333eams	PT 37985	Life evaluation of MOVs and U-I/R-I MOV Characteristic
Maintenance Teams	MT 1	Revision of Standard test specification for gas discharge tubes and metal-oxide varistor components that are used in surge protective devices

	MT 2	Revision of Standard test specification for silicon avalanche diode and thyristor surge suppressor components that are used in surge protective devices
Editing Group	EG 4	Editing Group

SC 37B Liaisons

Committee	Description	Incoming liaison representative	Outgoing liaison representative
Internal IEC Liaison			
SC 37A	Low-voltage surge protective devices	Mr Vincent Crevenat	
TC 40	Capacitors and resistors for electronic equipment	Mr Michael Fluege	
TC 108	Safety of electronic equipment within the field of audio/video, information technology and communication technology		Mr Michael Maytum
Liaison A			
ITU	International Telecommunication Union		

SC 37B Working Groups Liaisons

Working Groups	Description	Organization	Incoming liaison representative	Outgoing liaison representative
Liaison C				
MT 1	Revision of Standard test specification for gas discharge tubes and metal-oxide varistor components that are used in surge protective devices	IEEE/PES/SPDC		
MT 2	Revision of Standard test specification for silicon avalanche diode and thyristor surge suppressor components that are used in surge protective devices	IEEE/PES/SPDC		
WG 3	Performance requirements, test methods and application principles for Surge Isolation Transformer components	IEEE SPDC WG 3.6.2		

Publications by IEC TC 37 and SCs

Reference	Edition	Date	Title	Language
IEC 60099-4:2014	Edition 3.0	2014-06-30	Surge arresters - Part 4: Metal-oxide surge arresters without gaps for a.c. systems	EN-FR, ES
IEC 60099-5:2018	Edition 3.0	2018-01-19	Surge arresters - Part 5: Selection and application recommendations	EN
IEC 60099-5:2018 RLV	Edition 3.0	2018-01-19	Surge arresters - Part 5: Selection and application recommendations	EN
IEC 60099-6:2019	Edition 2.0	2019-05-22	Surge arresters - Part 6: Surge arresters containing both series and parallel gapped structures - System voltage of 52 kV and less	EN-FR
IEC 60099-8:2017	Edition 2.0	2017-11-14	Surge arresters - Part 8: Metal-oxide surge arresters with external series gap (EGLA) for overhead transmission and distribution lines of a.c. systems above 1 kV	EN-FR, EN
IEC 60099-8:2017 RLV	Edition 2.0	2017-11-14	Surge arresters - Part 8: Metal-oxide surge arresters with external series gap (EGLA) for overhead transmission and distribution lines of a.c. systems above 1 kV	EN
IEC 60099-9:2014	Edition 1.0	2014-06-26	Surge arresters - Part 9: Metal-oxide surge arresters without gaps for HVDC converter stations	EN-FR
IEC 61643-11:2011	Edition 1.0	2011-03-09	Low-voltage surge protective devices - Part 11: Surge protective devices connected to low-voltage power systems - Requirements and test methods	EN-FR, ES

IEC 61643-12:2020	Edition 3.0	2020-05-07	Low-voltage surge protective devices - Part 12: Surge protective devices connected to low-voltage power systems - Selection and application principles	EN-FR
IEC 61643-21:2000+AMD1:2008+AMD2:2012 CSV	Edition 1.2	2012-07-27	Low voltage surge protective devices - Part 21: Surge protective devices connected to telecommunications and signalling networks - Performance requirements and testing methods	EN-FR
IEC 61643-21:2000+AMD1:2008 CSV	Edition 1.1	2009-04-29	Low voltage surge protective devices - Part 21: Surge protective devices connected to telecommunications and signalling networks - Performance requirements and testing methods	EN-FR
IEC 61643-21:2000	Edition 1.0	2000-09-29	Low voltage surge protective devices - Part 21: Surge protective devices connected to telecommunications and signalling networks - Performance requirements and testing methods	EN-FR, ES
IEC 61643-21:2000/COR1:2001	Edition 1.0	2001-03-28	Corrigendum 1 - Low voltage surge protective devices - Part 21: Surge protective devices connected to telecommunications and signalling networks - Performance requirements and testing methods	EN-FR

IEC 61643-21:2000/AMD1:2008	Edition 1.0	2008-04-25	Amendment 1 - Low voltage surge protective devices - Part 21: Surge protective devices connected to telecommunications and signalling networks - Performance requirements and testing methods	EN-FR
IEC 61643-21:2000/AMD2:2012	Edition 1.0	2012-07-27	Amendment 2 - Low voltage surge protective devices - Part 21: Surge protective devices connected to telecommunications and signalling networks - Performance requirements and testing methods	EN-FR, ES
IEC 61643-22:2015	Edition 2.0	2015-06-25	Low-voltage surge protective devices - Part 22: Surge protective devices connected to telecommunications and signalling networks - Selection and application principles	EN-FR
IEC 61643-31:2018	Edition 1.0	2018-01-10	Low-voltage surge protective devices - Part 31: Requirements and test methods for SPDs for photovoltaic installations	EN-FR
IEC 61643-32:2017	Edition 1.0	2017-09-20	Low-voltage surge protective devices - Part 32: Surge protective devices connected to the d.c. side of photovoltaic installations - Selection and application principles	EN-FR
IEC 61643-32:2017/COR1:2019	Edition 1.0	2019-06-17	Corrigendum 1 - Low-voltage surge protective devices - Part 32: Surge protective devices connected to the d.c. side of photovoltaic installations - Selection and application principles	EN-FR

IEC 61643-311:2013	Edition 2.0	2013-04-11	Components for low-voltage surge protective devices - Part 311: Performance requirements and test circuits for gas discharge tubes (GDT)	EN-FR, ES
IEC 61643-312:2013	Edition 1.0	2013-04-22	Components for low-voltage surge protective devices - Part 312: Selection and application principles for gas discharge tubes	EN-FR, ES
IEC 61643-312:2013/COR1:2013	Edition 1.0	2013-07-16	Corrigendum 1 - Components for low-voltage surge protective devices - Part 312: Selection and application principles for gas discharge tubes	EN-FR
IEC 61643-321:2001	Edition 1.0	2001-12-04	Components for low-voltage surge protective devices - Part 321: Specifications for avalanche breakdown diode (ABD)	EN-FR, ES
IEC 61643-331:2020	Edition 3.0	2020-03-19	Components for low-voltage surge protection - Part 331: Performance requirements and test methods for metal oxide varistors (MOV)	EN
IEC 61643-331:2020 RLV	Edition 3.0	2020-03-19	Components for low-voltage surge protection - Part 331: Performance requirements and test methods for metal oxide varistors (MOV)	EN
IEC 61643-341:2020	Edition 2.0	2020-05-13	Components for low-voltage surge protection - Part 341: Performance requirements and test circuits for thyristor surge suppressors (TSS)	EN-FR
IEC 61643-351:2016	Edition 1.0	2016-10-28	Components for low-voltage surge protective devices - Part 351: Performance requirements and test methods for telecommunications and signalling network surge isolation	EN-FR

			transformers (SIT)	
IEC 61643-352:2018	Edition 1.0	2018-01-10	Components for low-voltage surge protection - Part 352: Selection and application principles for telecommunications and signalling network surge isolation transformers (SITs)	EN-FR

Number of Projects and Publications:

TC	Numer of publications	Number of projects
TC 37	7	1
SC 37A	12	3
SC 37A	9	6

استانداردهای ملی تدوین شده و در دست تدوین مرتبط با این کمیته فنی در پایگاه اینترنتی سازمان ملی استاندارد ایران به آدرس www.isiri.gov.ir موجود است.