



SLOVENSKI STANDARD
oSIST prEN IEC 60079-7:2026
01-april-2026

Eksplozijska okolja - 7. del: Zaščita opreme z izboljšano varnostjo "e"

Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

Explosionsgefährdete Bereiche - Teil 7: Geräteschutz durch erhöhte Sicherheit "e"

Atmosphères explosives - Partie 7: Protection du matériel par sécurité augmentée "e"

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ICS:

29.260.20	Električni aparati za eksplozivna ozračja	Electrical apparatus for explosive atmospheres
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COMMITTEE DRAFT FOR VOTE (CDV)

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TITLE:

Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**Explosive atmospheres -
Part 7: Equipment protection by increased safety "e"**

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IEC 60079-7 has been prepared by IEC technical committee 31: Equipment for explosive atmospheres. It is an International Standard.

This sixth edition cancels and replaces the fifth edition published in 2015. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

Changes	Clause/ Subclause	Type		
		Minor and editorial changes	Extension	Major technical changes
"Equipment" replaced by "Ex Equipment"	General	X		
Clarification of documentation to specifically point to Schedule Drawings	General	X		
Updated RTD to ETD to cover additional devices	General	X		
Changed "Electrical Machines" to "Electric Machines"	General	X		
"Ballast" replaced by "Control Gear" in Luminaire applications	General	X		
IEC 60044-6 is replaced by IEC 61869-2	Clause 2	X		
IEC 60079-15 is added	Clause 2	X		
IEC 60947-7-3 is added	Clause 2	X		
ANSI/UL 746B is added	Clause 2	X		
ANSI/UL 746E is added	Clause 2	X		
Battery Definitions are moved to IEC 60079-0	Clause 3	X		
Definition for "Fuse" moved to IEC 60079-0	Clause 3	X		
Series of "LED related definitions" added along with Notes to Entry	3.8 (3.8)	X		
Definition for "LED" added	3.8.1 (3.8.1)	X		
Definition for "LED module" revised	3.8.2 (3.8.2)	X		
Definition for "LED Package" revised	3.8.3 (3.8.3)	X		
Low Voltage Switchgear and Controlgear assemblies definition added	3.9 (3.9)	X		

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		Type		
Changes	Clause/ Subclause	Minor and editorial changes	Extension	Major technical changes
Definition for "Rate of temperature rise of the stator" has been added	3.13 (3.13)	X		
Pulse Frequency definition added	3.15 (3.15)	X		
Semiconductor Device definition added	3.16 (3.16)	X		
"Solid Insulation" definition moved to IEC 60079-0	Clause 3	X		
Switching Frequency definition added	3.20 (3.20)	X		
Revised Definition of Terminal and added indication of domain	3.21 (3.21)	X		
"Safety Device" definition moved to IEC 60079-0	Clause 3	X		
"Transportable" definition moved to IEC 60079-0	Clause 3	X		
Clarification that the arcing and sparking device in an enclosure must have tool access	4.1	X		
No additional requirements for connection of stranded conductors beyond those of the general industrial requirements	4.2.1	X		
Clarified requirements of contact pressure through insulating materials	4.2.1		X	
Addressed fused terminal blocks per IEC 60947-7-3	4.2.2.2		X	
Clarified Soldering as a connection method	4.2.3.3, list item d)		X	
Clarified the group connections of pluggable connection	4.2.3.4, list item c)		X	
Clarified the group connections of pluggable connection	4.2.3.5		X	
Clarified the group connections of pluggable connection	4.2.3.6		X	
Clarification of Terms for Socket Outlet and Inlet	4.2.4	X		
Added Field Wiring connections involving Plugs and Socket Outlets	4.2.4		X	
Clarification of Securing requirements and evaluation	4.2.4, list item b)		X	
Introduction into Insulation coordination	4.3			C1
Summarized Environmental conditions for Insulation coordination and provide details and application of micro- and macro- environments	4.3.1			C1
Clarified requirements for Clearance Distances	4.3.3			C1
Clarified requirements for Creepage Distances	4.3.4			C1

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Changes	Clause/ Subclause	Type		
		Minor and editorial changes	Extension	Major technical changes
Clarified requirements for separation distances	4.3.4			C1
Clarified requirements Separation Distances and Coatings for Printed Circuit Boards	4.4			C1
Clarified requirements for Solid Insulating materials	4.5	X		
Clarified winding wire requirements	4.6.2, list item b)		X	
Corrected requirements to align with IEC 60034-1	4.7.3 Table 4		X	
Requirements for "ec" moved to IEC 60079-0	4.9.1		X	
Requirement for a minimum IP64 for other than fixed equipment.	4.9.1, list item d)			C3
Clarification of Fastener Terms to align with IEC 60079-0	4.10	X		
Clarified applicability of IEC 60034-1	5.2.1	X		
Clarified IP requirement for machines with terminal boxes	5.2.3	X		
Clarified requirements for internal cooling fans	5.2.5		X	
Clarified requirements for air gap	5.2.6		X	
Clarified bars and rings of cage rotors are not bare conductive parts.	5.2.7.2.1		X	
Clarified assessment for possible air gap sparking	5.2.7.3		X	
Added a calling clause for Annex A	5.2.8.1	X		
Clarification of rotor temperature limits	5.2.8.2		X	
Added Section on use of current dependent safety devices	5.2.8.3		X	
Clarification on the use of temperature sensors in rotors	5.2.8.4		X	
Clarified use on operation by a converter	5.2.8.5	X		
Added requirements for reluctance rotors	5.2.10		X	
Added instruction requirements on the maintenance of rubbing seals	5.2.13.2		X	
Added requirements for determining temperatures with anti-condensation heaters	5.2.15		X	
Removed requirements for manufacturer's declaration with respect to IEC 60598-1 for fluorescent lamps	5.3.1		X	