



IEC 61784-3-18

Edition 1.0 2021-04

INTERNATIONAL STANDARD

NORME INTERNATIONALE



AMENDMENT 2

AMENDEMENT 2

Industrial communication networks – Profiles –

Part 3-18: Functional safety fieldbuses – Additional specifications for CPF 18
(standards.iteh.ai)

Réseaux de communication industriels – Profils –

Partie 3-18: Bus de terrain de sécurité fonctionnelle – Spécifications
supplémentaires pour CPF 18

IEC 61784-3-18:2011/AMD2:2021

<https://standards.iteh.ai/catalog-standards/sst/14d02500-d179-4089-ad13->

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PROFILES –****Part 3-18: Functional safety fieldbuses –
Additional specifications for CPF 18****AMENDMENT 2****FOREWORD**

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The text of this Amendment is based on the following documents:

FDIS	Report on voting
65C/1083/FDIS	65C/1087/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

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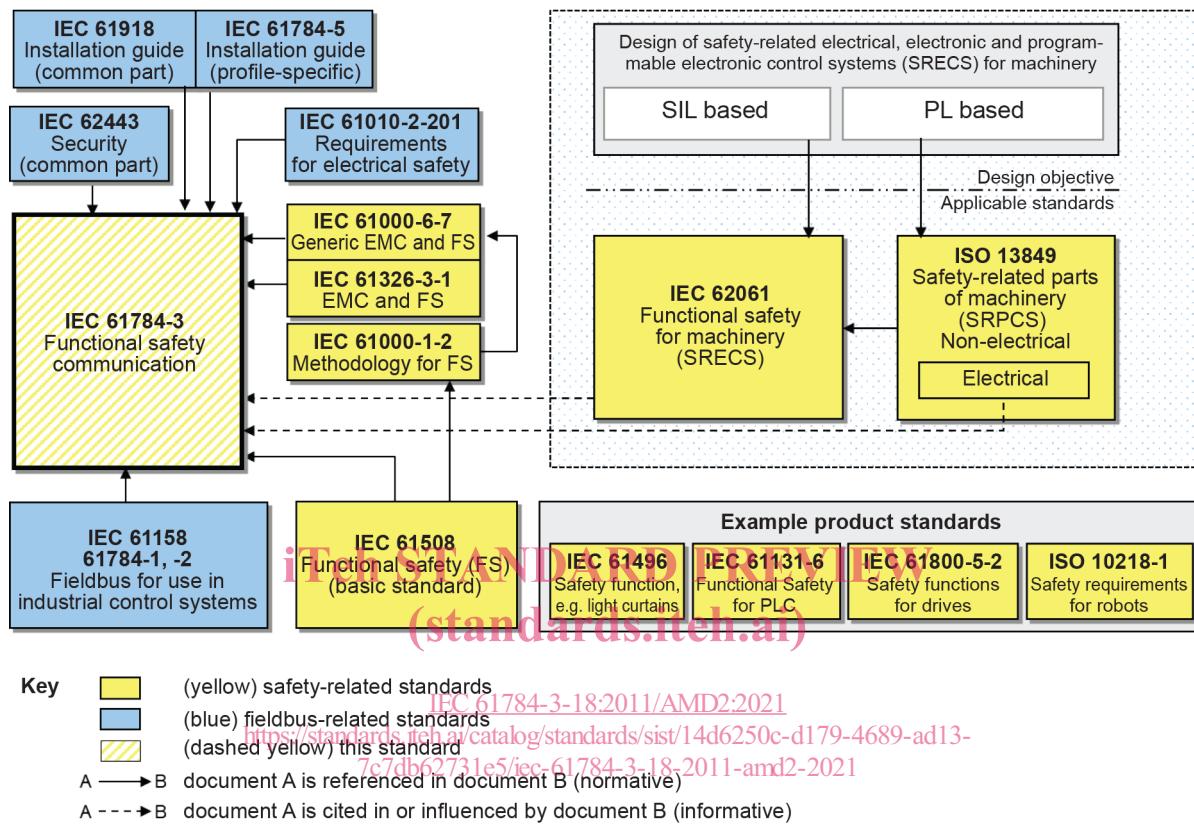
INTRODUCTION to Amendment 2

This Amendment 2 introduces several editorial and informational corrections in the context of Edition 4 of IEC 61784-3.

0 Introduction

0.1 General

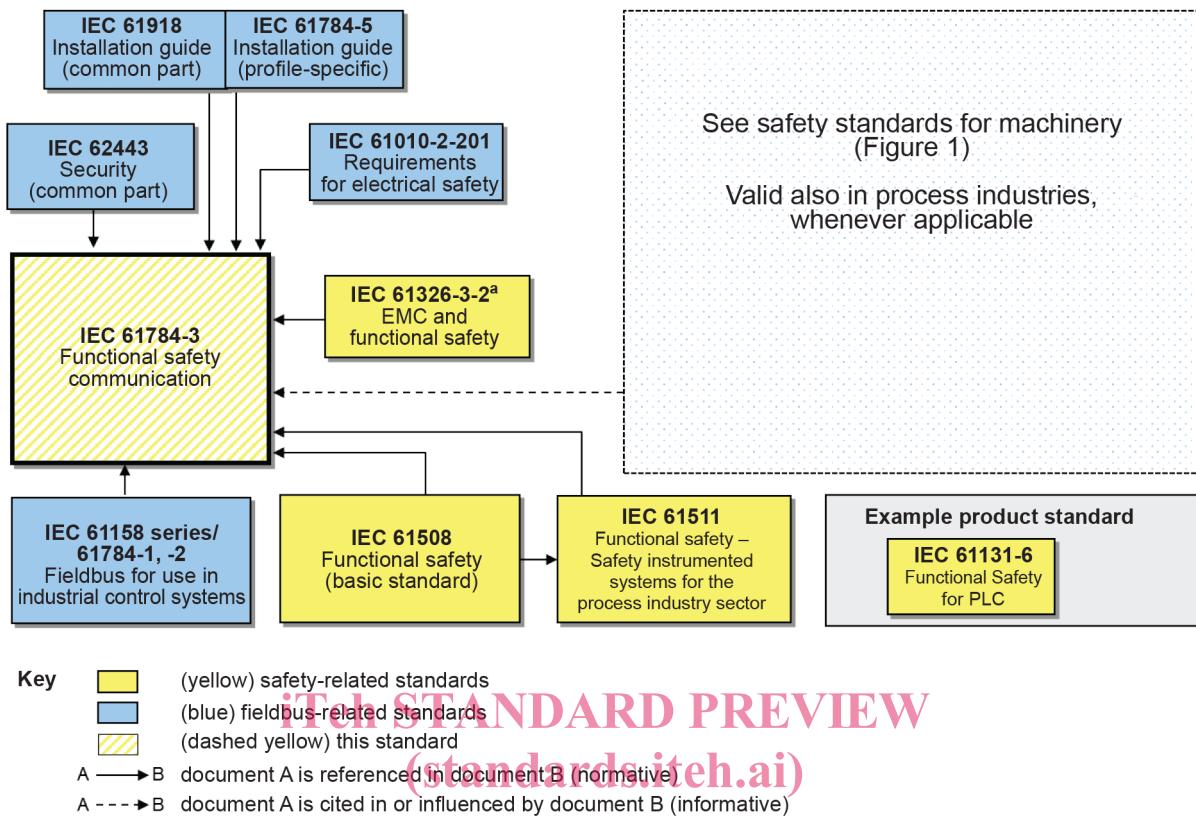
Replace the existing Figure 1 by the following new figure:



Replace the existing text of the NOTE below Figure 1 (before the title) by the following:

IEC 62061 specifies the relationship between PL (Category) and SIL.

Replace the existing Figure 2 by the following new figure:



[IEC 61784-3-18:2011/AMD2:2021](#)

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Replace, below Figure 2, the existing text of figure footnote a by the following:

For specified electromagnetic environments; otherwise IEC 61326-3-1 or IEC 61000-6-7.

Delete, below Figure 2, figure footnote b.

5 General

5.1 External documents providing specifications for the profile

Replace the existing text by the following:

There is no additional external document used for FSCP 18/1.

7 Safety communication layer protocol

7.1.2.4 Safety data

Delete, at the end of second paragraph: "as proven in 9.5.2".

7.1.2.7 SPDO CRC

Replace, in second paragraph: "0x20044009" with "0x120044009".

Replace, at the end of second paragraph: "9.5.2" with "Clause A.1".

7.1.3.8 SHB CRC

Replace, in second paragraph: "0x20044009" with "0x120044009".

Replace, at the end of second paragraph: "9.5.2" with "Clause A.1".

9 System requirements

9.5 Constraints for calculation of system characteristics

Delete Subclause 9.5.2.

Annex A – Additional information for functional safety communication profiles of CPF 18

Delete the sentence: "There is no additional information for this FSCP. "

Add the following new Clauses A.1 and A.2.

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A.1 Hash function calculation

(standards.iteh.ai)

The 32-bit CRC used in this FSCP is 0x120044009. It is calculated by:

[IEC 61784-3-18:2011/AMD2:2021](#)

$G(x) = x^{32} + x^{29} + \text{https://standards.iteh.ai/catalog/standards/sist/14d6250c-d179-4689-ad13-7c7db62731e5/iec-61784-3-18-2011-amd2-2021}$

Table A.1 contains the residual error probabilities for the used 32-bit polynomial for different code length and bit error probabilities in the range of 120 bits up to data lengths of 1 024 bits (128 octets) as specified in 9.5.1.4 including the CRC signature and incorporating the overall safety PDU structure as described in 7.1.

Table A.1 – Residual error probabilities for CRC32 Polynomial 0x120044009

Length n (bits)	$P_{BER} = 0,000\ 1$	$P_{BER} = 0,001$	$P_{BER} = 0,01$	$P_{BER} = 2/n$ ($2/n < 0,01$)	$P_{BER} = 4/n$ ($4/n < 0,01$)	$P_{BER} = 8/n$ ($8/n < 0,01$)
120	1,4236765E-22	1,2847875E-16	4,5824514E-11	-	-	-
128	1,5805978E-22	1,4161637E-16	4,6991099E-11	-	-	-
136	1,8162338E-22	1,6156082E-16	4,9874896E-11	-	-	-
144	2,0514920E-22	1,8117854E-16	5,2040784E-11	-	-	-
152	2,2863728E-22	2,0047350E-16	5,3582492E-11	-	-	-
160	2,5208766E-22	2,1944972E-16	5,4586144E-11	-	-	-
168	2,7550040E-22	2,3811128E-16	5,5130780E-11	-	-	-
176	2,9887554E-22	2,5646232E-16	5,5287180E-11	-	-	-
184	3,2221313E-22	2,7450668E-16	5,5112762E-11	-	-	-
192	3,4551322E-22	2,9224828E-16	5,4660017E-11	-	-	-
200	3,6877585E-22	3,0969120E-16	5,3978908E-11	-	-	-
208	3,9200108E-22	3,2683958E-16	5,3114126E-11	4,5363410E-11	-	-
216	4,1518896E-22	3,4369773E-16	5,2107322E-11	3,8340651E-11	-	-

Length <i>n</i> (bits)	$P_{\text{BER}} = 0,000\ 1$	$P_{\text{BER}} = 0,001$	$P_{\text{BER}} = 0,01$	$P_{\text{BER}} = 2/n$ ($2/n < 0,01$)	$P_{\text{BER}} = 4/n$ ($4/n < 0,01$)	$P_{\text{BER}} = 8/n$ ($8/n < 0,01$)
224	4,3833955E-22	3,6026990E-16	5,0993464E-11	3,2582177E-11	-	-
232	4,6145289E-22	3,7656011E-16	4,9799302E-11	2,7831581E-11	-	-
240	4,8452904E-22	3,9257249E-16	4,8549670E-11	2,3890359E-11	-	-
248	5,1342460E-22	4,1302103E-16	4,7793792E-11	2,0835782E-11	-	-
256	5,4812557E-22	4,3779805E-16	4,7436262E-11	1,8425386E-11	-	-
264	6,0226140E-22	4,7761306E-16	4,8446976E-11	1,6861505E-11	-	-
272	6,5631043E-22	5,1677587E-16	4,9125798E-11	1,5393430E-11	-	-
280	7,1027278E-22	5,5529640E-16	4,9531005E-11	1,4033750E-11	-	-
288	7,6609297E-22	5,9469202E-16	4,9823553E-11	1,2816366E-11	-	-
296	8,4708043E-22	6,5289301E-16	5,1327670E-11	1,2045553E-11	-	-
304	9,4735087E-22	7,2499111E-16	5,3455513E-11	1,1495922E-11	-	-
312	1,0629785E-21	8,0770133E-16	5,5857692E-11	1,1051648E-11	-	-
320	1,1997408E-21	9,0514335E-16	5,8700560E-11	1,0726971E-11	-	-
328	1,3556504E-21	1,0155031E-15	6,1761475E-11	1,0461785E-11	-	-
336	1,5635573E-21	1,1628976E-15	6,6182448E-11	1,0442536E-11	-	-
344	1,7865996E-21	1,3193279E-15	7,0326876E-11	1,0364686E-11	-	-
352	2,0208766E-21	1,4817260E-15	7,4063469E-11	1,0220116E-11	-	-
360	2,2682916E-21	1,6513297E-15	7,7479396E-11	1,0033566E-11	-	-
368	2,5596749E-21	1,8502188E-15	8,1427739E-11	9,9296272E-12	-	-
376	2,8756472E-21	2,0638556E-15	8,5243247E-11	9,8117258E-12	-	-
384	3,2257781E-21	2,2987099E-15	8,9120472E-11	9,7068404E-12	89	89 ad13-
392	3,6215308E-21	2,5623985E-15	9,3232281E-11	9,6349408E-12	-	-
400	4,0474134E-21	2,8434089E-15	9,7154398E-11	9,5450782E-12	9,7154463E-11	-
408	4,4841413E-21	3,1279116E-15	1,0051444E-10	9,3994061E-12	9,5832532E-11	-
416	4,9854381E-21	3,4529390E-15	1,0429003E-10	9,3077961E-12	9,4989209E-11	-
424	5,5396395E-21	3,8095810E-15	1,0814832E-10	9,2317820E-12	9,4283299E-11	-
432	6,1408682E-21	4,1931171E-15	1,1192889E-10	9,1545167E-12	9,3568240E-11	-
440	6,7985857E-21	4,6093325E-15	1,1572055E-10	9,0848438E-12	9,2923099E-11	-
448	7,5413586E-21	5,0766681E-15	1,1981327E-10	9,0497343E-12	9,2585427E-11	-
456	8,4186936E-21	5,6269908E-15	1,2464279E-10	9,0864545E-12	9,2881442E-11	-
464	9,3882365E-21	6,2304218E-15	1,2953135E-10	9,1304457E-12	9,3242112E-11	-
472	1,0453583E-20	6,8881152E-15	1,3441887E-10	9,1770946E-12	9,3626526E-11	-
480	1,1633575E-20	7,6111313E-15	1,3939755E-10	9,2345837E-12	9,4106788E-11	-
488	1,2863137E-20	8,3558251E-15	1,4382888E-10	9,2499280E-12	9,4218577E-11	-
496	1,4138339E-20	9,1191171E-15	1,4772488E-10	9,2271096E-12	9,3995500E-11	-
504	1,5508543E-20	9,9320460E-15	1,5148383E-10	9,2003769E-12	9,3738785E-11	-
512	1,6943099E-20	1,0774025E-14	1,5487542E-10	9,1517955E-12	9,3292441E-11	-
520	1,8445650E-20	1,1646634E-14	1,5794572E-10	9,0859281E-12	9,2696011E-11	-
528	2,0038809E-20	1,2563251E-14	1,6083659E-10	9,0145834E-12	9,2053257E-11	-
536	2,1716667E-20	1,3519161E-14	1,6350334E-10	8,9348614E-12	9,1336910E-11	-
544	2,3528296E-20	1,4543648E-14	1,6618275E-10	8,8648100E-12	9,0704765E-11	-
552	2,5463901E-20	1,5629140E-14	1,6878262E-10	8,7973089E-12	9,0095698E-11	-
560	2,7508047E-20	1,6764851E-14	1,7122196E-10	8,7256222E-12	8,9450634E-11	-

Length n (bits)	P _{BER} = 0,000 1	P _{BER} = 0,001	P _{BER} = 0,01	P _{BER} = 2/n (2/n < 0,01)	P _{BER} = 4/n (4/n < 0,01)	P _{BER} = 8/n (8/n < 0,01)
568	2,9662361E-20	1,7950558E-14	1,7349764E-10	8,6497338E-12	8,8770222E-11	-
576	3,1941688E-20	1,9193948E-14	1,7565753E-10	8,5731468E-12	8,8083883E-11	-
584	3,4391030E-20	2,0520402E-14	1,7783777E-10	8,5055102E-12	8,7477956E-11	-
592	3,7057131E-20	2,1955572E-14	1,8013261E-10	8,4538034E-12	8,7011456E-11	-
600	3,9903657E-20	2,3475690E-14	1,8237918E-10	8,4059524E-12	8,6578391E-11	-
608	4,2982901E-20	2,5109187E-14	1,8468353E-10	8,3695132E-12	8,6244617E-11	-
616	4,6279247E-20	2,6844449E-14	1,8696122E-10	8,3380158E-12	8,5955406E-11	-
624	4,9820371E-20	2,8694975E-14	1,8923972E-10	8,3134178E-12	8,5727711E-11	-
632	5,3590654E-20	3,0649202E-14	1,9144892E-10	8,2905610E-12	8,5515777E-11	-
640	5,7516332E-20	3,2663032E-14	1,9343615E-10	8,2576655E-12	8,5215707E-11	-
648	6,1673927E-20	3,4777895E-14	1,9534408E-10	8,2252391E-12	8,4921706E-11	-
656	6,6062878E-20	3,6991091E-14	1,9715750E-10	8,1919705E-12	8,4620212E-11	-
664	7,0637681E-20	3,9275117E-14	1,9880110E-10	8,1519464E-12	8,4260023E-11	-
672	7,5386656E-20	4,1621796E-14	2,0026705E-10	8,1043182E-12	8,3834377E-11	-
680	8,0356121E-20	4,4054787E-14	2,0162600E-10	8,0541279E-12	8,3386566E-11	-
688	8,5635210E-20	4,6620222E-14	2,0297999E-10	8,0090201E-12	8,2984111E-11	-
696	9,1165308E-20	4,9283501E-14	2,0424453E-10	7,9623964E-12	8,2568620E-11	-
704	9,7031602E-20	5,2087692E-14	2,0550110E-10	7,9204218E-12	8,2193635E-11	-
712	1,0333205E-19	5,5081361E-14	2,0681774E-10	7,8885969E-12	8,1907076E-11	-
720	1,1000416E-19	5,8227282E-14	2,0810912E-10	7,8600426E-12	8,1649426E-11	-
728	1,1711772E-19	6,1558301E-14	2,0941199E-10	7,8377961E-12	8,1447514E-11	-
736	1,2455641E-19	6,5009818E-14	2,1062129E-10	7,8129943E-12	8,1224133E-11	-
744	1,3232872E-19	6,8583268E-14	2,1174313E-10	7,7857987E-12	8,0979233E-11	-
752	1,4052665E-19	7,2322660E-14	2,1283238E-10	7,7607231E-12	8,0754068E-11	-
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792	1,8761682E-19	9,3233243E-14	2,1738322E-10	7,6251985E-12	7,9540042E-11	-
800	1,9851887E-19	9,7962401E-14	2,1819883E-10	7,6025501E-12	7,9336307E-11	2,1819883E-10
808	2,0987600E-19	1,0284454E-13	2,1895363E-10	7,5782009E-12	7,9118288E-11	2,1793283E-10
816	2,2176826E-19	1,0791450E-13	2,1967425E-10	7,5544679E-12	7,8905614E-11	2,1767439E-10
824	2,3419250E-19	1,1316622E-13	2,2035471E-10	7,5306262E-12	7,8692731E-11	2,1741553E-10
832	2,4726160E-19	1,1864890E-13	2,2102202E-10	7,5094219E-12	7,8502470E-11	2,1718358E-10
840	2,6084704E-19	1,2429641E-13	2,2163585E-10	7,4864440E-12	7,8297015E-11	2,1693343E-10
848	2,7496962E-19	1,3011436E-13	2,2220228E-10	7,4620265E-12	7,8080191E-11	2,1666866E-10
856	2,8958763E-19	1,3607912E-13	2,2271302E-10	7,4349302E-12	7,7837269E-11	2,1637651E-10
864	3,0485219E-19	1,4225675E-13	2,2320162E-10	7,4086247E-12	7,7604294E-11	2,1609304E-10
872	3,2078376E-19	1,4865144E-13	2,2366881E-10	7,3830309E-12	7,7375796E-11	2,1581768E-10
880	3,3729825E-19	1,5521961E-13	2,2409695E-10	7,3559126E-12	7,7134897E-11	2,1552708E-10
888	3,5453522E-19	1,6201998E-13	2,2450952E-10	7,3298555E-12	7,6903129E-11	2,1524826E-10
896	3,7260638E-19	1,6909701E-13	2,2491863E-10	7,3064026E-12	7,6695005E-11	2,1499642E-10
904	3,9139085E-19	1,7639021E-13	2,2530250E-10	7,2826816E-12	7,6484554E-11	2,1474226E-10

Length <i>n</i> (bits)	$P_{\text{BER}} = 0,000\ 1$	$P_{\text{BER}} = 0,001$	$P_{\text{BER}} = 0,01$	$P_{\text{BER}} = 2/n$ ($2/n < 0,01$)	$P_{\text{BER}} = 4/n$ ($4/n < 0,01$)	$P_{\text{BER}} = 8/n$ ($8/n < 0,01$)
912	4,1094170E-19	1,8391771E-13	2,2566690E-10	7,2592645E-12	7,6276641E-11	2,1449176E-10
920	4,3149802E-19	1,9177870E-13	2,2603648E-10	7,2395448E-12	7,6100259E-11	2,1427904E-10
928	4,5285674E-19	1,9987672E-13	2,2638307E-10	7,2195852E-12	7,5922583E-11	2,1406390E-10
936	4,7511613E-19	2,0824843E-13	2,2671545E-10	7,2004844E-12	7,5752432E-11	2,1385768E-10
944	4,9812106E-19	2,1682048E-13	2,2701775E-10	7,1796799E-12	7,5567534E-11	2,1363440E-10
952	5,2211533E-19	2,2569173E-13	2,2731159E-10	7,1602491E-12	7,5394612E-11	2,1342565E-10
960	5,4694563E-19	2,3478996E-13	2,2758219E-10	7,1398017E-12	7,5212955E-11	2,1320663E-10
968	5,7273710E-19	2,4416203E-13	2,2783927E-10	7,1196502E-12	7,5034031E-11	2,1299117E-10
976	5,9964168E-19	2,5386459E-13	2,2809125E-10	7,1011601E-12	7,4869001E-11	2,1279303E-10
984	6,2750975E-19	2,6382758E-13	2,2832632E-10	7,0822275E-12	7,4701179E-11	2,1259066E-10
992	6,5649845E-19	2,7410911E-13	2,2855304E-10	7,0642280E-12	7,4541811E-11	2,1239812E-10
1000	6,8665031E-19	2,8471872E-13	2,2877180E-10	7,0471750E-12	7,4390378E-11	2,1221562E-10
1008	7,1800231E-19	2,9566333E-13	2,2898236E-10	7,0310126E-12	7,4246304E-11	2,1204228E-10
1016	7,5046837E-19	3,0690001E-13	2,2917944E-10	7,0146000E-12	7,4100550E-11	2,1186647E-10
1024	7,8405842E-19	3,1842537E-13	2,2936321E-10	6,9977961E-12	7,3951436E-11	2,1168675E-10

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A.2 Void

Void

[IEC 61784-3-18:2011/AMD2:2021](#)

<https://standards.iteh.ai/catalog/standards/sist/14d6250c-d179-4689-ad13-7c7db62731e5/iec-61784-3-18-2011-amd2-2021>

Remove the document in entry [2] and replace it with "Void".

Replace the number and title of document in entry [3] by the following:

- [3] IEC 61000-1-2, *Electromagnetic compatibility (EMC) – Part 1-2: General – Methodology for the achievement of functional safety of electrical and electronic systems including equipment with regard to electromagnetic phenomena*

Remove footnote 5 in entry [4].

Remove the document in entry [14] and replace it with "Void".

Remove footnote 6 associated with removed document in entry [14].

Remove the documents in entries [28], [32] and [33] and replace each one with "Void".

Remove the document in entry [34] and replace it with "Void".

Remove footnote 7 associated with removed document in entry [34].

Remove the document in entry [41] and replace it with "Void".

Add, at the end of Bibliography, the following new references: