

Mo 02.09.2019 11:41

RE: [GRE TF EMC] Question regarding ESD-Test levels used today for R116

Dear colleagues,

We might take inspirations from the requirements of ISO 13766-1:2018 or the stricter (functional safety) limits of 13766-1:2018.

For test methods ISO 10605 is referenced.

Opposed to ISO 13776, I see ESD testing covering scenarios of installation, service or repair conditions as highly relevant for ESAs and such scenarios may be relevant also at vehicle level.

Another EMC issue in R116, Annex 9, §1, Immunity against disturbances conducted along supply lines:

This section of R116 refers to ISO 7632-2:2004 that specifies all the pulses listed.

ISO 7637-2:2004 has been superseded by ISO 7637-2:2011 in which we find:

5.6.4 Note on test pulses 4, 5a, and 5b

The test pulses 4, 5a, and 5b have been removed from this edition of this part of ISO 7637, since they are specified in ISO 16750-2 and ISO 21848.

Where ISO 16750-2:2012 is the relevant standard for 12 V and 24 V vehicles.

Definitions of pulse 1, 2a/2b, 3a, and 3b can also be found in ISO 16750-2, details in the definition of some of the pulses differs slightly from ISO 7637-2.

My recommendation is to allow both standards, ISO 7637-2:2011 and ISO 16750-2:2012 in this section of R116 (providing test laboratories some continued use of existing test equipment).

Yours sincerely

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