

**Programmable controllers –  
Part 2: Equipment requirements and tests**

**CORRIGENDUM 1**

Page 10

1.1 Scope

*Eighth paragraph, item e)*

*Instead of:*

...(Clauses 7, 10 and 13);

*read:*

...(Clauses 7, 10 and 14);

*Eighth paragraph, item f)*

*Instead of:*

...(5.12, 8.5, 11.18 and Clause 13).

*read:*

...(Clauses 6, 9, and 12).

Page 11

1.2 Compliance with this standard

*Delete last paragraph and place it in Subclause 2.5 after the fifth indent.*

1.3 Normative references

*Add to the list of normative references:*

IEC 60364 (all parts), *Electrical installations of buildings*

Page 13

2 Type tests

*First paragraph, first indent:*

*Instead of:*

...given in 5.12, 8.5 and 11.18,

*read:*

...given in Clauses 6, 9 and 12,

2.1 Equipment to be tested (equipment under test/EUT)

*Sixth paragraph*

*Instead of:*

NOTE The application of statistical criteria based on samples for a large number of I/Os (for example, >100) may be considered.

*read:*

NOTE It may be appropriate to consider statistical criteria based on samples, for a large number of I/Os (for example, >100).

*Eighth paragraph*

*Indent this paragraph and the following three.*

Page 20

3.29 insulation

*After note 1, create two new notes 2 and 3 and make the existing note 2 a paragraph of note 3.*

Page 21

3.33 live part

*Add note 1, note 2, note 3 and note 4 before each of the four lines.*

3.35 material group

*Instead of:*

...(see 10.4.3)

*read:*

...(see 11.4.3)

Page 22

3.43 overvoltage category (of a circuit or within an electrical system)

*Note, second paragraph*

*Make this note 2.*

*Make first paragraph note 1.*

Page 23

3.54 service personnel

*Make the note part of the definition.*

Page 24

3.59 working voltage

*Make the notes part of the definition.*

Page 27

Add Subclause 4.3.2 as follows:

#### 4.3.2 Relative humidity

The relative humidity range is 10 % to 95 %, non-condensing.

Requirements of this subclause are verified in accordance with 6.1.3.

Replace the following subclauses by 4.3.3, 4.3.4 and 4.3.5.

Page 30

Table 6 – Rated values and operating ranges of incoming power supply

Note (3), last line:

Add Annex B after “equations in”.

Page 31

#### 5.2 Digital I/Os

Third paragraph after Figure 3, last line:

Instead of:

...Annex A.

read:

...Annex B.

Last paragraph after Figure 3, note:

Replace “NOTE” by “NOTE 1” and make the second paragraph “NOTE 2”.

Instead of:

5.2.2 Terminology (U/I operating regions)

read:

5.2.1.1 Terminology (U/I operating regions)

Page 33

Figure 4 – U-I operation regions of current-sinking inputs

Insert, in the centre white box, the label “Transition region”

Page 34

Instead of:

5.2.3 Standard operating ranges for digital inputs (current sinking)

read:

5.2.1.2 Standard operating ranges for digital inputs (current sinking)

Table 7 – Standard operating ranges for digital inputs (current sinking)

In note (3), replace “See 4.1.1.1...” by “See 5.1.1.1”.

In note (5), replace "...lower than 11 V..." by "...lower than d.c. 11 V..."

Add, at the end of the table, the following notes:

NOTE Compatibility with 2-wire proximity switches according to IEC 60947-5-2 is possible with Type 2. See also (3).

ND = Not defined.

Instead of:

5.2.4 Additional requirements

read:

5.2.1.3 Additional requirements

Instead of:

5.2.5 Digital outputs for alternating currents (current sourcing)

read:

5.2.2 Digital outputs for alternating currents (current sourcing)

Instead of:

5.2.5.1 Rated values and operating ranges (a.c.)

read:

5.2.2.1 Rated values and operating ranges (a.c.)

Page 35

Table 8 – Rated values and operating ranges for current sourcing digital a.c. outputs

In the tenth line, replace "(see Figure 6)" by "(see Figure 5)".

Page 36

Instead of:

5.2.5.2 Additional requirements

read:

5.2.2.2 Additional requirements

and change the numbering of the following five subclauses as follows: 5.2.5.2.1 to 5.2.2.2.1, 5.2.5.2.2 to 5.2.2.2.2, 5.2.5.2.3 to 5.2.2.2.3, 5.2.5.2.4 to 5.2.2.2.4 and 5.2.5.2.5 to 5.2.2.2.5.

5.2.2.2.2 Protected outputs

Change the two paragraphs of the existing note to "NOTE 1" and "NOTE 2".

Page 37

Instead of:

5.2.6 Digital outputs for direct current (current sourcing)

read:

5.2.3 Digital outputs for direct current (current sourcing)

and change the numbering of the following two subclauses as follows: 5.2.6.1 to 5.2.3.1, 5.2.5.2 to 5.2.3.2.

Table 9 – Rated values and operating ranges (d.c.) for current-sourcing digital d.c. outputs

In the tenth line, replace “See Figure 7...” by “See Figure 6....”.

Page 38

Table 10 – Rated values and impedance limits for analogue inputs

Insert, before the footnote, the number (1).

Page 39

5.7 Peripherals (PADTs, TEs, HMIs) requirements

In the fifth paragraph, first indent, replace “...min, etc.” by “...ms, etc.”

Page 42

Table 12 – Dry-heat and cold withstand tests

Insert a dividing line between “Initial measurement” and “Conditioning”.

Replace, under “Climatic conditions”, “See 6.1(1)” by “See 6.1 and 2.6(1)”

Table 13 – Change of temperature, withstand and immunity tests

Instead of:

Recover

read:

Recovery

Delete, in the fifteenth line, the word “time” and make it the sixteenth line.

Replace, under “Climatic conditions”, “See 6.1(4)” by “See 6.1 and 2.6(4)”.

Page 43

Table 14 – Cyclic (12 + 12) damp-heat

Delete the dividing line between “Preconditioning” and “Initial measurements”.

Delete, in the twelfth line, the word “time” and make it the thirteenth line.

Add a dash in the second column opposite “Recovery procedure”.

Page 48

Table 23 – Supply voltage variation tests

Replace, in the last line of the first box in the second column, “...of 6.3.1.1” by “...of 5.3.1.1”.

Add, at the beginning of the footnote, “(1)”.

Page 51

Table 26 – Overload and short-circuit tests for digital outputs

*Replace, in the fifteenth line, “...in 4.2.2.2 and 4.2.3.2” by “...in 5.2.2.2 and 5.2.3.2”.*

Page 52

6.4.3.4 Verification of other requirements

*Instead of:*

*...under 5.2 and the remaining requirements of 5.2.2.2....*

*read:*

*...under 5.2.2 or 5.2.3 and the remaining requirements of 5.2.2.2 or 5.2.3.2....*

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7.1 Information on type and content of documentation

*Replace, at the end of 7.1, the note before the title of 7.1.1; the title of 7.1.1 then becomes “Information on catalogues and datasheets”.*

Page 64

Table 29 – Criteria to prove the performance of a PLC-system against EMC disturbances

*Replace, in the fifteenth line, “...(1.5.5)” by “...(2.5)”.*

Page 65

Table 30 – Radiated immunity and enclosure ports

*Note (1), first line*

*Replace (1), (2) and (3) by (a), (b) and (c).*

8.3.3 General radiated immunity limits

*Replace, in the second line under Table 31, “Figure 12” by “Figure 11”.*

Page 70

Table 36 – Electrostatic discharge immunity test

*Replace, in the fourth paragraph of the second column, (1), (2) and (3) by (a), (b) and (c).*

Page 71

Table 38 – Power-frequency magnetic field immunity test

*Instead of:*

*“According to PFVP (25.5)”*