**Table 11A Percentage Error Limits (Single-Phase Meters and Polyphase Meters with Balanced Loads)**

(*Clause* 11.1)

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl No.** | **Value of Current** | **Power Factor** | **Percentage Error Limits for Meter of Class** |
|  |  |  | 0.1 S | 0.2 S | 0.5 S |
| (1) | (2) | (3) | (4) | (5) | (6) |
| (i) | 0.01 Ib ≤ I < 0.05 Ib | 1 | ± 0.20 | ± 0.40 | ± 1.00 |
| (ii) | 0.05 Ib ≤ I ≤ Imax | 1 | ± 0.10 | ± 0.20 | ± 0.50 |
| (iii) | 0.02 Ib ≤ I < 0.1 Ib | 0.5 lagging | ± 0.25 | ± 0.50 | ± 1.00 |
| (iv) | 0.8 leading | ± 0.25 | ± 0.50 | ± 1.00 |
| (v) | 0.1 Ib ≤ I ≤ Imax | 0.5 lagging | ± 0.15 | ± 0.30 | ± 0.60 |
| (vi) | 0.8 leading | ± 0.15 | ± 0.30 | ± 0.60 |
| (vii) | When specially required by the user: from 0.2 Ib to Ib | 0.25 lagging | ± 0.25 | ± 0.50 | ± 1.00 |
| (viii) | 0.5 leading | ± 0.25 | ± 0.50 | ± 1.00 |

**Table 13 Influence Quantities**

(*Clauses* 9.2.1, 11.2, 12.8.3, 12.8.4 *and* 12.10)

| **SI No.** | **Influence Quantities** | **Value for current (Balanced Unless Otherwise Stated)** | **Power Factor** | **Limit of Variation in Percentage Error for Meters of Class** |
| --- | --- | --- | --- | --- |
|  |  |  |  | 0.1 S | 0.2 S | 0.5 S | 1 S |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| i) | Voltage Variation (*see Note 1*)±10 percent | 0.05 Ib ≤ I ≤ Imax | 1 | 0.05 | 0.10 | 0.20 | 0.40 |
| ii) | 0.1 Ib ≤ I ≤ Imax | 0.5 lagging | 0.10 | 0.20 | 0.40 | 0.80 |
| iii) |  | 0.05 Ib ≤ I ≤ Imax | 1 |  0.05 |  0.10 |  0.20 |  0.40 |
| iv) | Frequency Variation ± 5 percent | 0.1 Ib ≤ I ≤ Imax | 0.5 lagging |  0.05 |  0.10 |  0.20 |  0.40 |
| v) | Waveform 10 percent of 3rd harmonic in the current (*see* Note 2) | 0.05 Ib ≤ I ≤ Imax | 1 |  0.05 |  0.10 |  0.10 |  0.20 |
| vi) | Reversed phase sequence | 0.1 Ib | 1 |  0.05 |  0.05 |  0.10 |  0.20 |
| vii) | Voltage Unbalance (*see* Note 3) | Ib | 1 |  0.25 |  0.50 |  1.0 |  2.0 |
| viii) | Auxiliary voltage ± 15 percent (*see* Note 4) | 0.05 Ib | 1 |  0.05 |  0.05 |  0.10 |  0.20 |
| ix) | Phase of Auxiliary supply voltage by 120 degree (s*ee* Note 4) | 0.05 Ib | 1 |  0.10 |  0.10 |  0.20 |  0.40 |
| x) | Continuous magnetic induction of external origin (*see* Note 5) | Ib | 1 |  2.0 |  2.0 |  3.0 |  3.0 |
| xi) | Magnetic induction of external origin 0.5mT (*see* Note 6) | Ib | 1 |  0.50 |  0.50 |  1.0 |  2.0 |
| xii) | Electromagnetic HF fields (*see* Note 7) | Ib | 1 | 0.50 | 1.0 | 2.0 | 2.0 |
| xiii) | Continuous abnormal magnetic induction of external origin (*see* Note 9) | Ib | 1 | 4.0 | 4.0 | 4.0 | 4.0 |
| xiv)xv) | Abnormal a.c. magnetic induction of external origin (10 mT) (*see* Note 9)Fast transient burst (*see* Note 10) | IbIb | 11 | 4.01.0 | 4.02.0 | 4.03.0 | 4.04.0 |

**Table 14 Temperature Co-efficient**

(*Clause* 11.3)

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl No.** | **Value of Current** | **Power Factor** | **Mean Temperature Coefficient for Meter of Class (percentage/°C)**  |
|  |  |  | 0.1 S | 0.2 S | 0.5 S | 1 S |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| i) | From 0.05 Ib to Imax | 1 | 0.005 | 0.010 | 0.030 | 0.050 |
| ii) | From 0.1 Ib to Imax | 0.5 lagging | 0.010 | 0.020 | 0.050 | 0.070 |

(*Page* 34, *Annex J*) — Substitute the following for the existing:

