# Metal Clad Combi Instrument Transformer 12 - 36 kV

## (Current and Voltage Instrument Transformer)

| Technical data | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Type (Size) | KGBEI 12<br>KGBEA 12 | | | KGBEI 24<br>KGBEA 24 | | | KGBEI 36<br>KGBEA 36 | | |
| Max. Primary Voltage Um | 12 kV | | | 24 kV | | | 36 kV | | |
| With Inner Cone<br>(Drawing on request) | MB 3.3800 (KGBEI 12) | | | MB 3.5165 (KGBEI 24) | | | MB 3.5910 (KGBEI 36) | | |
| With Outer Cone<br>(Drawing on request) | MB 3.3801 (KGBEA 12) | | | MB 3.5144 (KGBEA 24) | | | MB 3.5913 (KGBEA 36) | | |
| Plug Size Inner Cone | Size 1 for 600 A; $I_{th}$ 20 kA/1 sec.<br>Size 2 for 800 A; $I_{th}$ 20 kA/1 sec. | | | | | | | | |
| Plug Size Outer Cone | Size A for max. 250 A; 12.5 kA/1 sec.<br>Size B for max. 400 A; 16 kA/1 sec.<br>Size C for max. 600 A; 28 kA/1 sec. | | | | | | | | |
| **Current Transformer Part** | | | | | | | | | |
| Rated Primary Current $I_{pn}$ | inside cone 5 A ... 800 A<br>outside cone 5 A ... 600 A | | | | | | | | |
| Rated Secondary Current $I_{sn}$ | 5 A or 1 A | | | | | | | | |
| Accuracy Factor | 0,2s / 0,2 / 0,5s / 0,5 / 1 / 10P / 5P | | | | | | | | |
| **Max. Core Data** | **For Example** | | | | | | | | |
| **1 Measuring Core** | **max.** | **5 VA Kl. 0.2 ($I_{th}$=800x$I_n$) or 10 VA Kl. 0.2s ($I_{th}$= 500x$I_n$)** | | | | | | | |
| **1 Protection Core** | **max.** | **20 VA Kl. 10P 10 ($I_{th}$=100x$I_n$) or 5 VA Kl. 10P 10 ($I_{th}$= 300x$I_n$)** | | | | | | | |
| **2 Cores** | **max.** | **Core 1: 10 VA Kl. 0.5s Core 2: 10 VA cl. 0.5s ($I_{th}$= 300x$I_n$)**<br>**Core 1: 10 VA cl. 0.5s Core 2: 10 VA cl. 5P 10 ($I_{th}$= 100x$I_n$)** | | | | | | | |
| **Voltage Transformer Part** | | | | | | | | | |
| Rated Primary Voltage [V] | 5000/√3 ... 11000/√3 | | | 10000/√3 ... 22000/√3 | | | 22000/√3 ... 36000/√3 | | |
| Rated Secondary Voltage [V] | 100/√3 / 110/√3 | | | | | | | | |
| Number of Measuring Windings | 1 or 2* (optional: with Earthing Winding 100:3 or 110:3 V) | | | | | | | | |
| Accuracy Class | 0,2 | 0,5 | 1 | 0,2 | 0,5 | 1 | 0,2 | 0,5 | 1 |
| Max. Rated Output [VA] | 15 | 50 | 120 | 30 | 75 | 180 | 30 | 75 | 180 |
| Thermal Limit Current | 6 A / 8 h | | | | | | | | |
| Rated Voltage Factor | 1,9 $U_n$ / 8 h | | | | | | | | |

* The more accurate measuring winding will limit the max. rated output to the indicated value for one measuring winding.