

# Type Approval Certificate



This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No. 59 718 - 13 HH

Company MBS AG

Eisbachstraße 51  
74429 Sulzbach-Laufen, GERMANY

Product Description Measuring current transformer

Type KBU23, KBU58, KBR18, KBR32, KBR44, KBU812, KBU816

Environmental Category C

Technical Data / Range of Application  
Highest voltage of equipment  $U_m$ : 0,72kV  
Rated frequency: 50Hz  
Rated power-frequency withstand voltage: 3kV  
Class of insulation: E

Type:	KBU23	KBU58
Rated Primary current:	100 up to 400A	250A up to 1000A
Rated Secondary current:	1 or 5A	1 or 5A
Accuracy class:	1FS10	1FS15 or 1FS10 0,5FS10 or 0,5FS15 $\geq 400A$
Rated continuous thermal current:	1,0 x $I_n$	1,0 x $I_n$
Rated short-time thermal current:	6 up to 24kA, 1sec	15 up to 40kA, 1sec
Rated dynamic current:	15 up to 60kA	37,5 up to 100kA

Test Standard Guidelines for the Performance of Type Approvals Chapter 2, Edition 2012  
IEC 60044-1 (2003) IEC 61869-2 (2012)

Documents Test Report: IPH 1469.2111233.0931, IPH 1469.2111215.0856  
IPH 1469.2121180.0591, IPH 1469.2121178.0592, IPH 1469.2130062.0009  
IPH 1469.2130166.0084, IPH 1469.2130166.0085, IPH 1469.2111429.0957  
MBS-Typprüfprotokoll Baureihe KBR 18, KBR 44, KBU 816  
RMS Nr. 02-04/2013, RMS Nr.01-11/2012

Remarks None

Valid until 2018-01-04

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File No. I.J.05

Hamburg, 2013-07-31

Type Approval Symbol



**Germanischer Lloyd**

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Arne Schaarmann

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Type:	KBR18	KBR32	KBR44
Rated Primary current:	50 up to 250A	100 up to 600A	250 up to 1000A
Rated Secondary current:	1A	1 or 5A	1 or 5A
Accuracy class:	1FS5 or 3FS5	1FS5 or 3FS5	1FS5
Rated continuous thermal current:	1,2 x I <sub>n</sub>	1,2 x I <sub>n</sub>	1,2 x I <sub>n</sub>
Rated short-time thermal current:	3 up to 15kA, 1sec	6 up to 36kA, 1sec	15 up to 60kA, 1sec
Rated dynamic current:	7,5 up to 37,5kA	15 up to 90kA	37,5 up to 150kA

Type:	KBU812	KBU816
Rated Primary current:	250 up to 1500A	1000 up to 5000A
Rated Secondary current:	1 or 5A	1 or 5A
Accuracy class:	1FS10 0,5FS10 or 0,5FS15 ≥500A	1FS10 or 1FS15 0,5FS10 or 0,5FS15
Rated continuous thermal current:	1,0 x I <sub>n</sub>	1,0 x I <sub>n</sub>
Rated short-time thermal current:	15 up to 60kA, 1sec	60 up to 100kA, 1sec
Rated dynamic current:	37,5 up to 150kA	150 up to 250kA

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This certificate is issued on the basis of "Guidelines for the Performance of Type Approvals Part 1, Procedure".