

Bavarian Engine System Tester 60 kW

BEST - 60

Technical data:

Rated power	60 kW
Rated speed	2.000 rpm
Max. speed	8.000 rpm
Rated torque	285 Nm
Max. torque	677.4 Nm
Motor	Asynchronous servo motor
Effective test set-up	No gear between the loading and test motor
Materials	Metal 5 copper rails for grounding with threaded inserts and wing bolts length of copper rails
Dimensions (L x W x H)	2.5 m x 1.2 m x 1.5 m
Height of tabletop plate	0.9 m
Height of motor-shaft above tabletop	310 mm
Voltage	400 VAC; 50 Hz / 60 Hz; 3-phase
Current consumption	max. 250 A
Required RCD	300 mA
Control cable	Fiber optic lines
Remote control via	LAN (TCP/IP)
Interference suppression	20 dB under limits DIN EN 55011/A11:2021-03 class B
Temperature working range	10°C – 35°C
Total weight	approx. 2200 kg
Accessories	Service manual Adapter flange for test motor Power supply cable

Brief description

The **Bavarian Engine System Tester** is especially designed as freestanding test stand for installation in electromagnetic absorption chambers in combination with a CISPR test table for component testing according to DIN EN 55025:2018-03 (CISPR 25:2016 + COR1:2017). The table surface is a cross-slotted table for easy mounting of the test motors with a working surface of approx. 1.2 m x 1.2 m.

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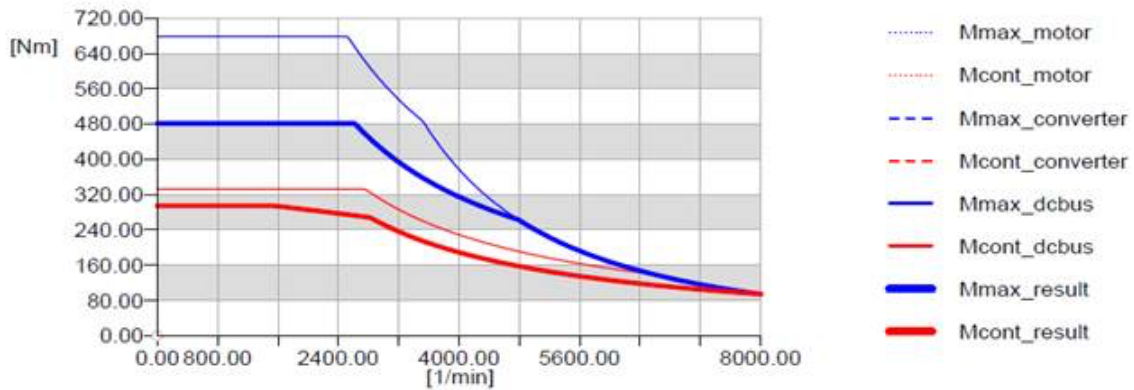
absolute-emc.com
Phone: 703-774-7505
info@absolute-emc.com

Phone: +49 (0)9606 923913-0
Fax: +49 (0)9606 923913-29

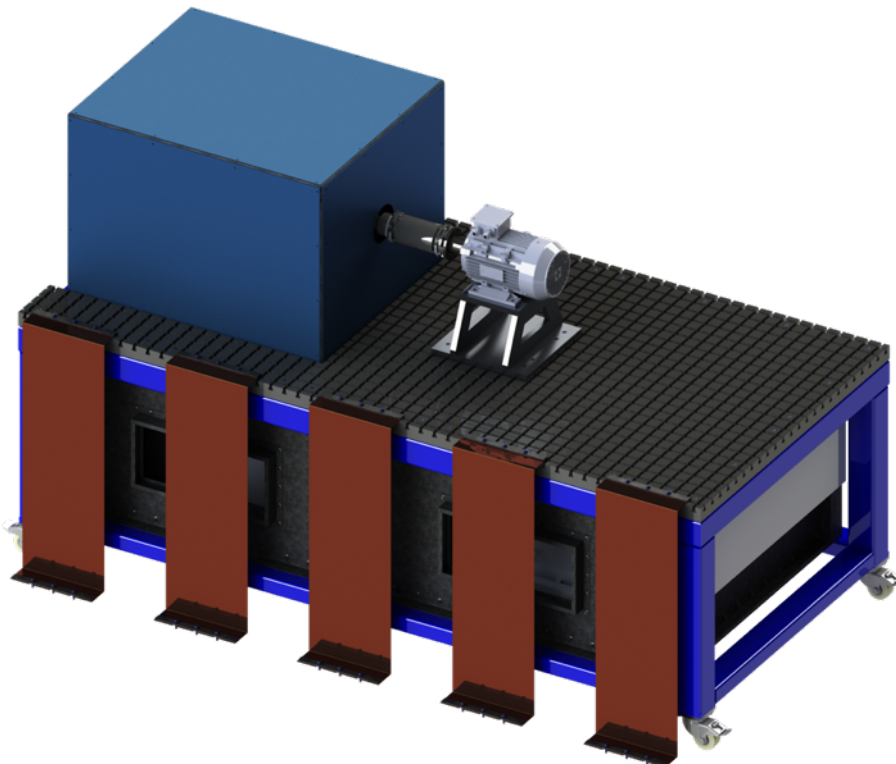
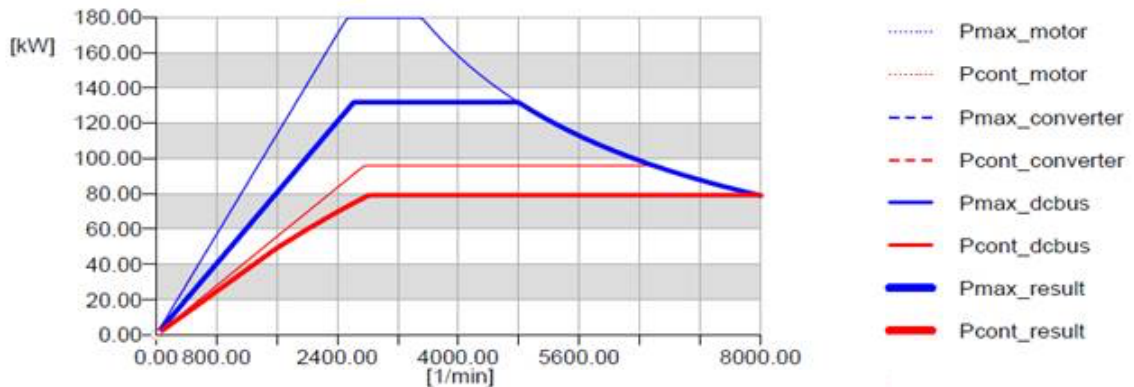
eMail: info@matur-gmbh.de
Web: www.matur-gmbh.de

Characteristic motor diagrams:

speed – torque diagram



speed – power diagram



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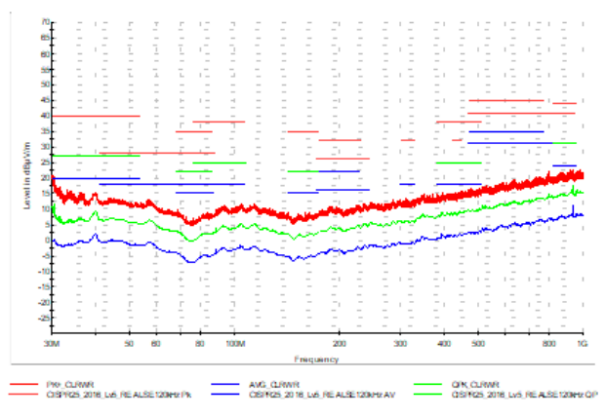
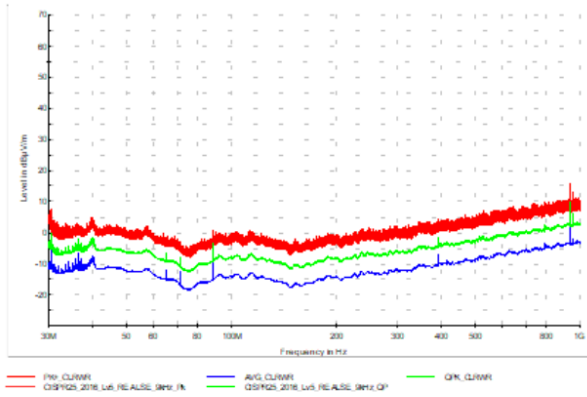
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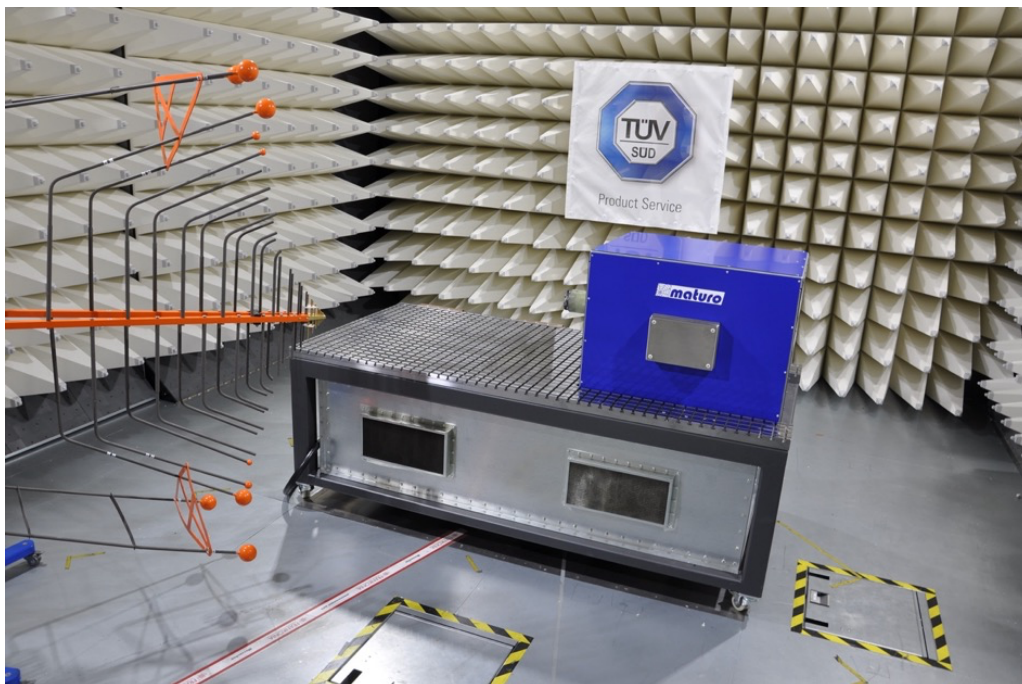
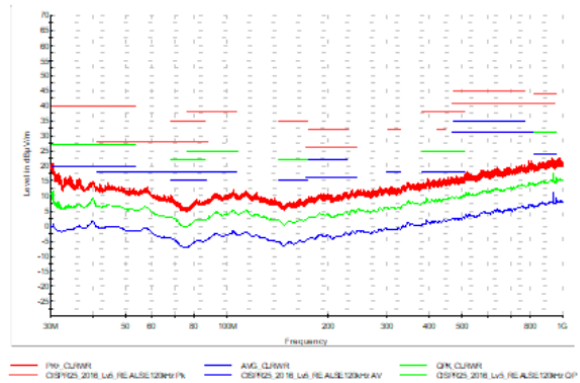
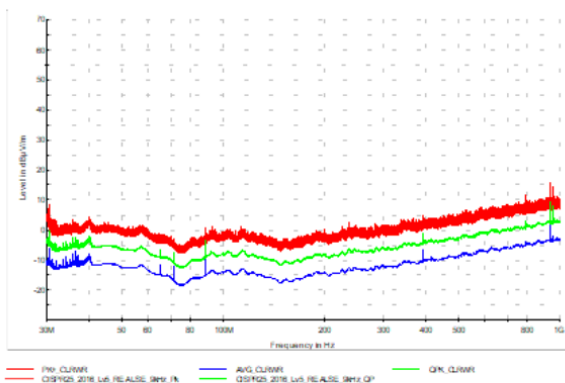
Noise measurement results (1/2):

According to CISPR25:2016-10 4th Edition; Vertical polarization of antenna
 Measurement Bandwidth 9 kHz / 120 kHz; Measurement time 3000 ms

30 MHz – 1 GHz; Ambient noise – Mains switch OFF



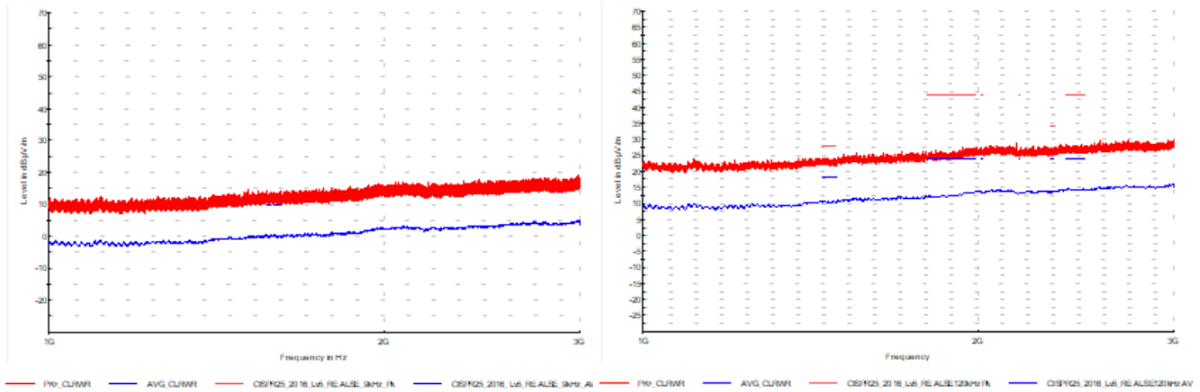
30 MHz – 1 GHz; Ambient noise – Testbench running 1000 rpm



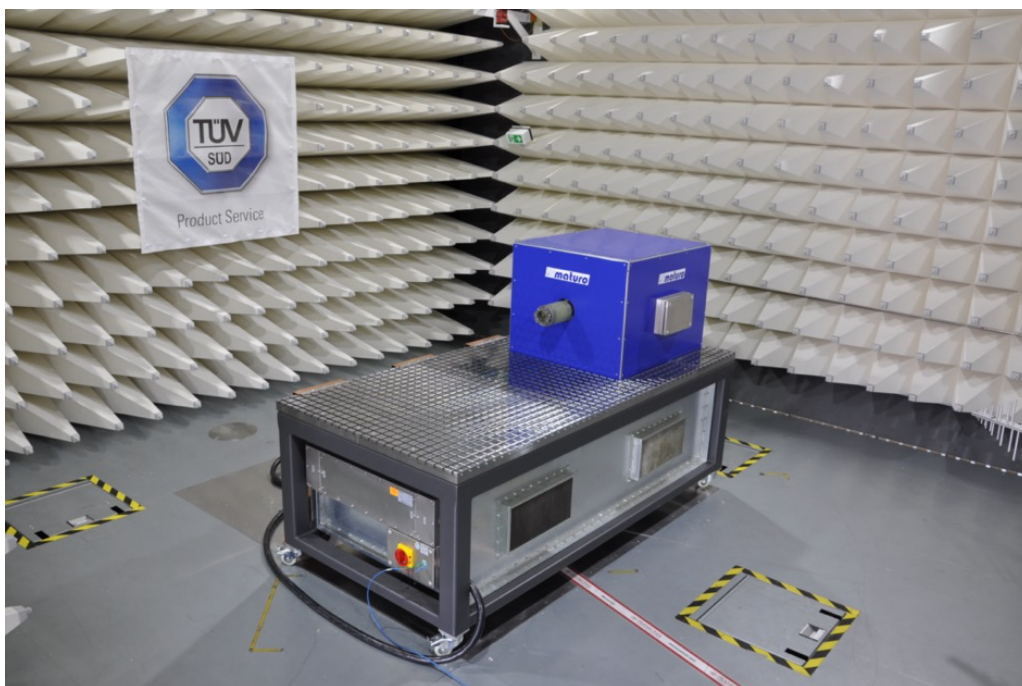
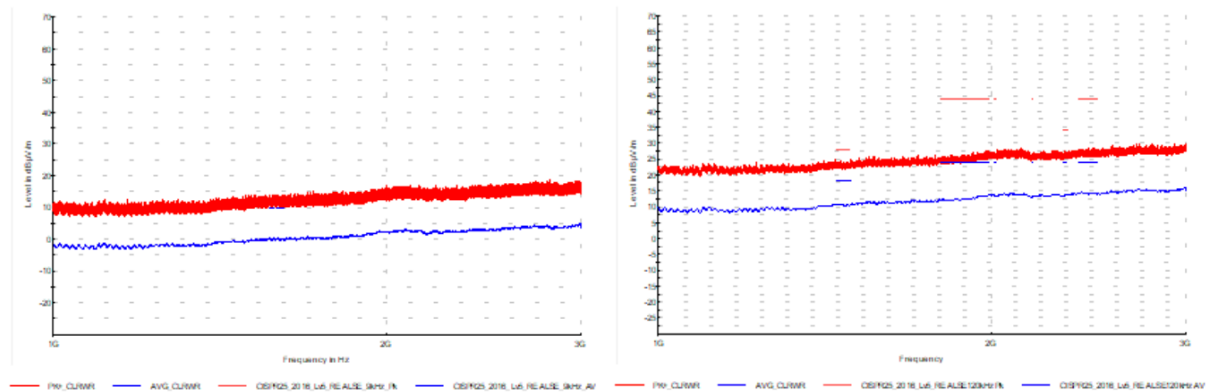
Noise measurement results (2/2):

According to CISPR25:2016-10 4th Edition; Vertical polarization of antenna
 Measurement Bandwidth 9 kHz / 120 kHz; Measurement time 3000 ms

1 GHz – 6 GHz; Ambient noise – Mains switch OFF



1 GHz – 6 GHz; Ambient noise – Testbench running 1000 rpm



Information presented enclosed is subject to change as product enhancements are made regularly.
 Pictures included are for illustration purposes only and do not represent all possible configurations.