



Lloyd's
Register

Type Approval Certificate

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

This certificate is issued to:

PRODUCER	Miele & Cie. KG Mielestraße 2 33611 Bielefeld Germany
DESCRIPTION	Dishwasher for commercial use
TYPES	GG 06: PG 8055, PG 8056, PG 8057, PG 8058, PG 8059, PG 8060 GG 09: PG 8130, PG 8131, PG 8132, PG 8133
APPLICATION	Dishwasher for the use on-board ships in general power distribution zone.
ADDITIONAL TESTS	<u>Tests according to LR Test Specification Number No. 1, July 2015:</u> Visual inspection Performance test Insulation resistance Power supply variation Power supply failure Vibration test 1: 2 – 13.2 Hz (± 1.0 mm); 13.2 – 100 Hz (± 0.7 g (6.9 ms ⁻²)) Damp heat test 2 – steady state: +40° C / 96% / 96 h Low temperature test: +5° C / 16 h High voltage Immunity to conducted low frequency interference Immunity to conducted radio interference Immunity to radiated radio frequency fields Immunity to fast low-energy transients (bursts) Immunity to slow high-energy transients (surges) Immunity to electrostatic discharge (ESD)
Certificate No.	19/20047
Issue Date	05/08/2019
Expiry Date	04/08/2024
Sheet	1 of 2

Lloyd's Register EMEA
71 Fenchurch Street, London EC3M 4BS



Thorsten Wolff
Hamburg Technical Support Office
Lloyd's Register EMEA

Lloyd's Register EMEA
Is a subsidiary of Lloyd's Register Group

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



**ADDITIONAL TESTS
(continued)**

Radiated emission (acc. to bridge and deck zone)
Conducted emission (acc. to general power distribution zone)

Tests according to IEC 60068-2-2: 2007
Dry heat test: +40° C / 16 h

STANDARD

Manufacturer's specification

RATINGS

Type	Power supply	Power consumption
GG 06	3N AC, 400 V, 50 Hz	max. 8.9 kW
	3 AC, 230 V, 50 Hz	max. 7.1 kW
	3 AC, 208 V, 60 Hz	max. 5.8 kW
	3 AC, 240 V, 60 Hz	max. 5.8 kW
	3 AC, 440 V 60 Hz	max. 9.4 kW
	3 AC, 220 V, 60 Hz	max. 6.5 kW
	1 AC, 230 V, 50 Hz	max. 6.4 kW
GG 09	3N AC, 400 V, 50 Hz	max. 8.3 kW
	3 AC, 230 V, 50 Hz	max. 6,7 kW
	1 AC, 230 V, 50 Hz	max. 6,7 kW
	1 AC, 120 V, 60 Hz	max. 1,5 kW
	2N AC, 120/208-240 V, 60 Hz	max. 4,2 kW

The Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

If the specified standards are amended during the validity of this certificate, the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply.

The Design Appraisal Document No. HTS/ETS 38487-19 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

Certificate No. 19/20047

Issue Date 05/08/2019

Expiry Date 04/08/2024

Sheet 2 of 2



Thorsten Wolff
Hamburg Technical Support Office
Lloyd's Register EMEA

Lloyd's Register EMEA
71 Fenchurch Street, London EC3M 4BS

Lloyd's Register EMEA
Is a subsidiary of Lloyd's Register Group