

Declaration of manufacturer Mechanical gears

Series	412F5..
Test Lab / Client	Gerhard Geiger GmbH & Co., Schleifmühle 6, 74321 Bietigheim-Bissingen, Germany
Standard	DIN EN 14203 (D) July 2004, Blinds and shutters – Capability for use of gears with crank handle – Requirements and test methods

Test data

Family of products	Folding arm awning (EN 13561)		
Gear type	Bevel gear	Reduction ratio i	4,4:1
Efficiency η (M_S)	0,68		

Only for folding arm awnings

Torque 90% of travel M_{SN} [Nm]	7,00	Torque 10% of travel M_{SP} [Nm]	29,00
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Test results

Forced operation test carried out			
Test effort P_F [N]	120 (21,60 Nm) (Working radius 0,18 m)		
Cycles	50	Passed	YES

Number of achieved cycles	10.000 (endurance class 3)
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This gear series is in conformity with the requirements of the directive DIN EN 14203 dated July 2004

Divergence from the norm:

Due to the strong thermal load at the test rig, the outflow of tiny amounts of lubricants is unavoidable.

