
Torque Sharing Report

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1 Introduction

I have implemented torque sharing using three different approaches. In this document, I have collected the results for evaluation.

2 Equal Torque Distribution Between Modules

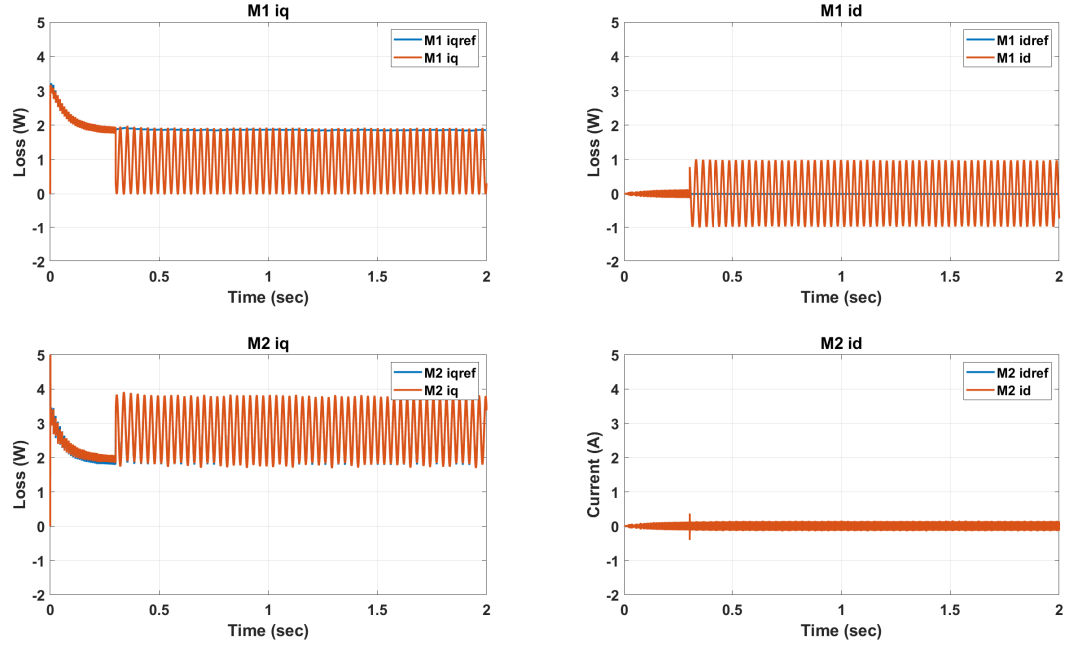


Figure 1: dq Phase Currents and References for Equal Torque Distribution

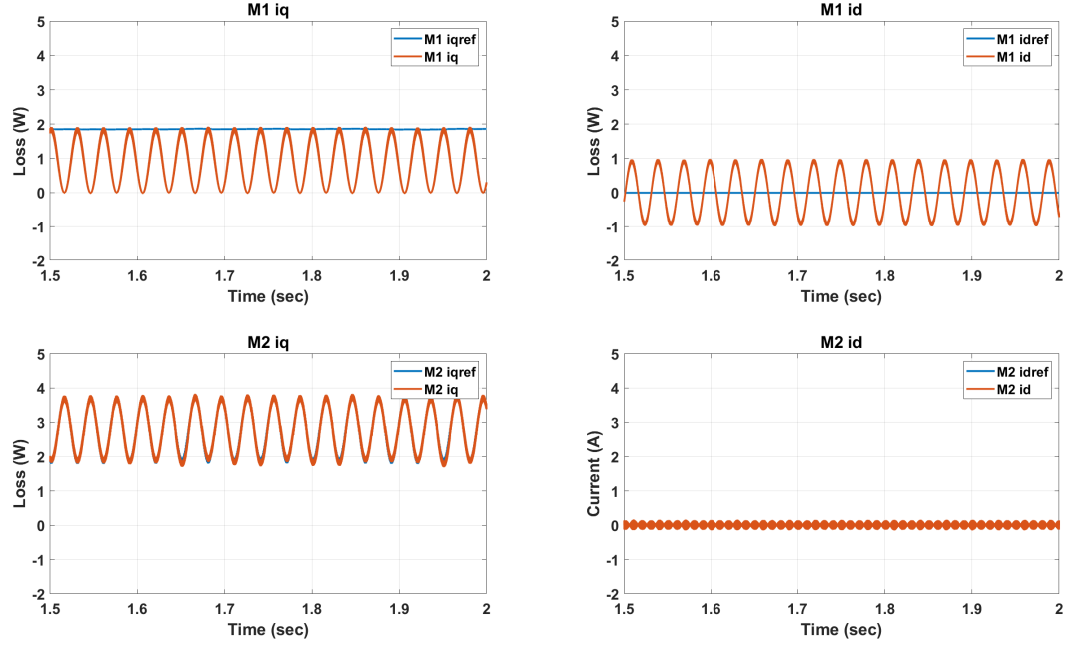


Figure 2: dq Phase Currents and References for Equal Torque Distribution Closer

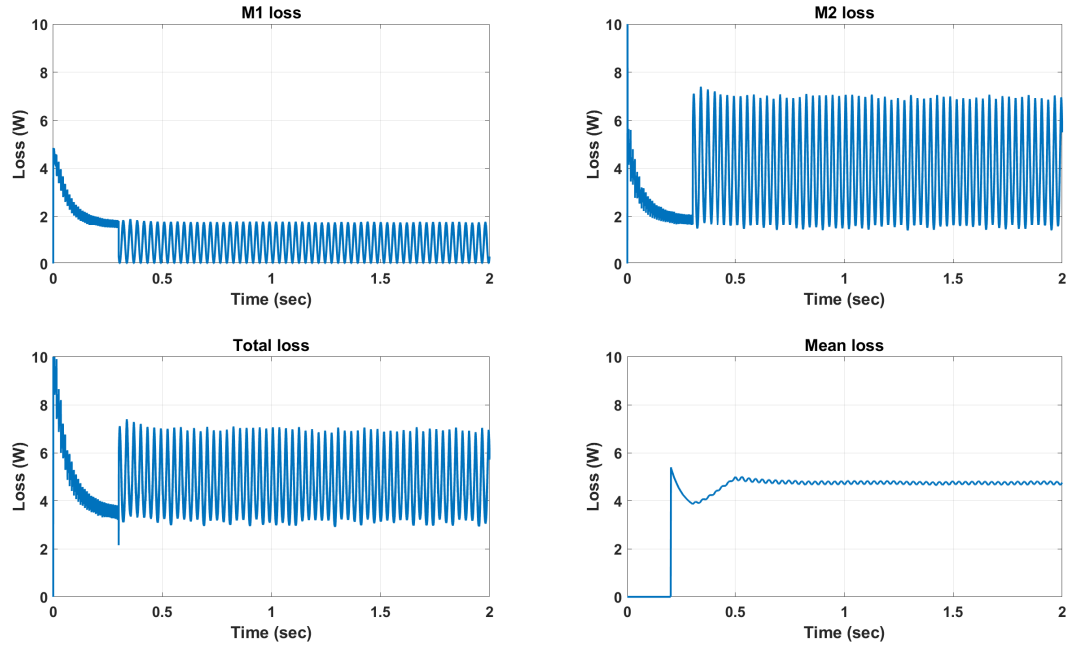


Figure 3: Module Losses for Equal Torque Distribution

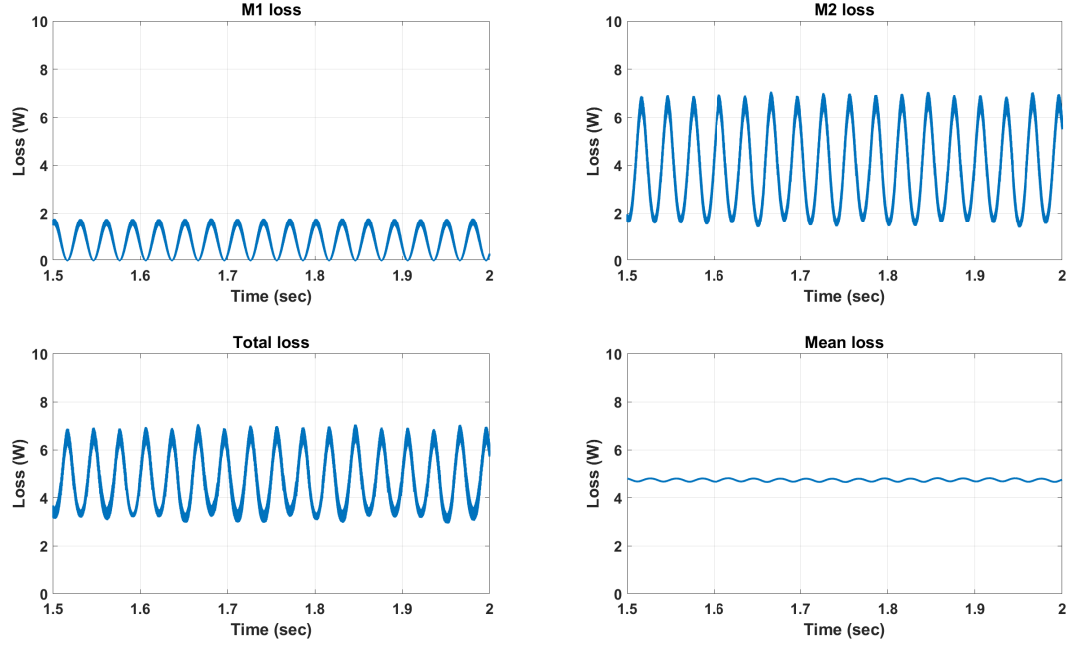


Figure 4: Module Losses for Equal Torque Distribution Closer

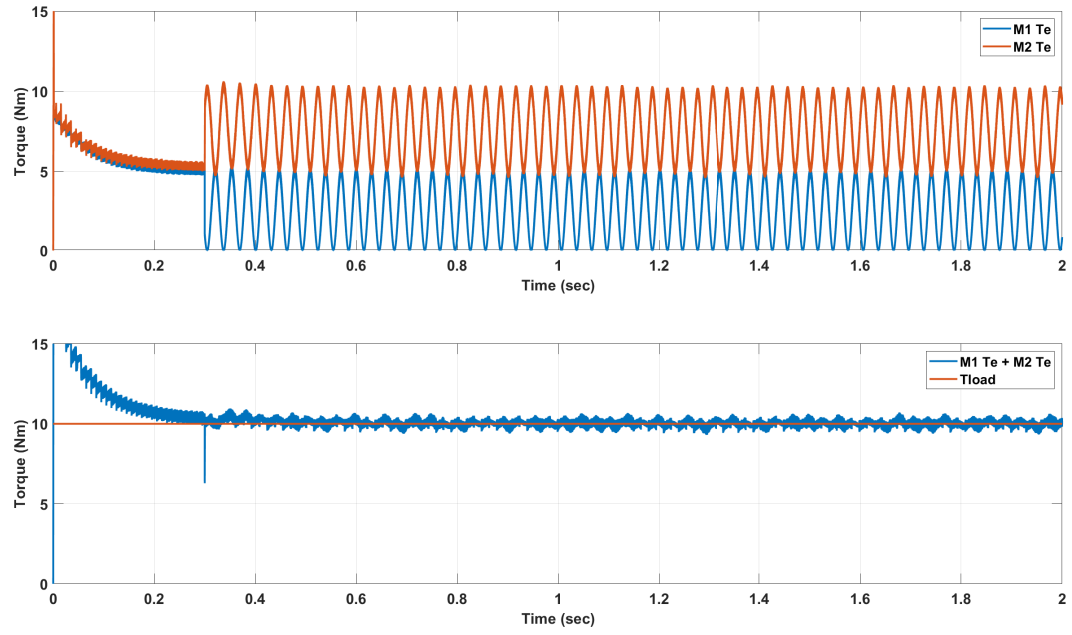


Figure 5: Module Losses for Equal Torque Distribution

3 Proposed Optimum on a paper

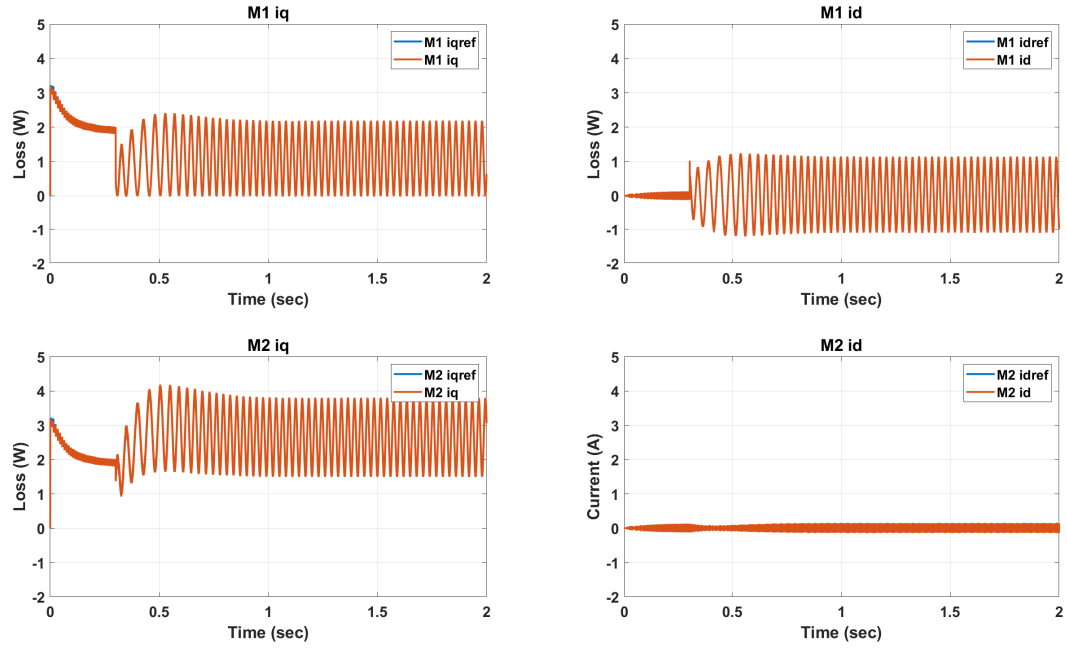


Figure 6: dq Phase Currents and References for Proposed Optimum Distribution

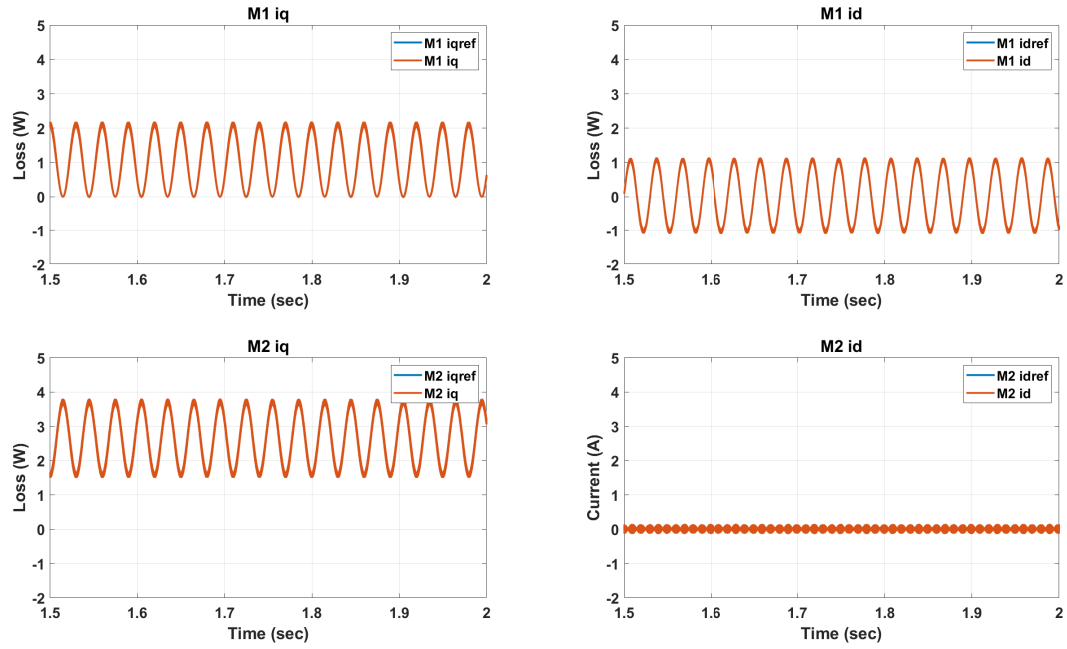


Figure 7: dq Phase Currents and References for Proposed Optimum Distribution Closer

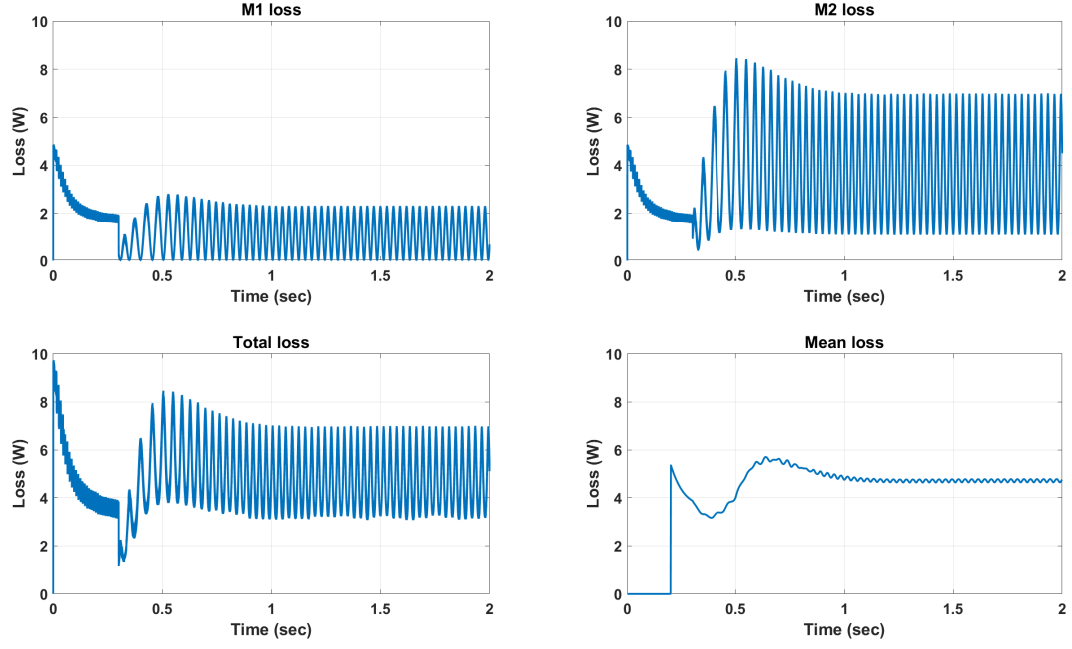


Figure 8: Module Losses for Proposed Optimum Distribution

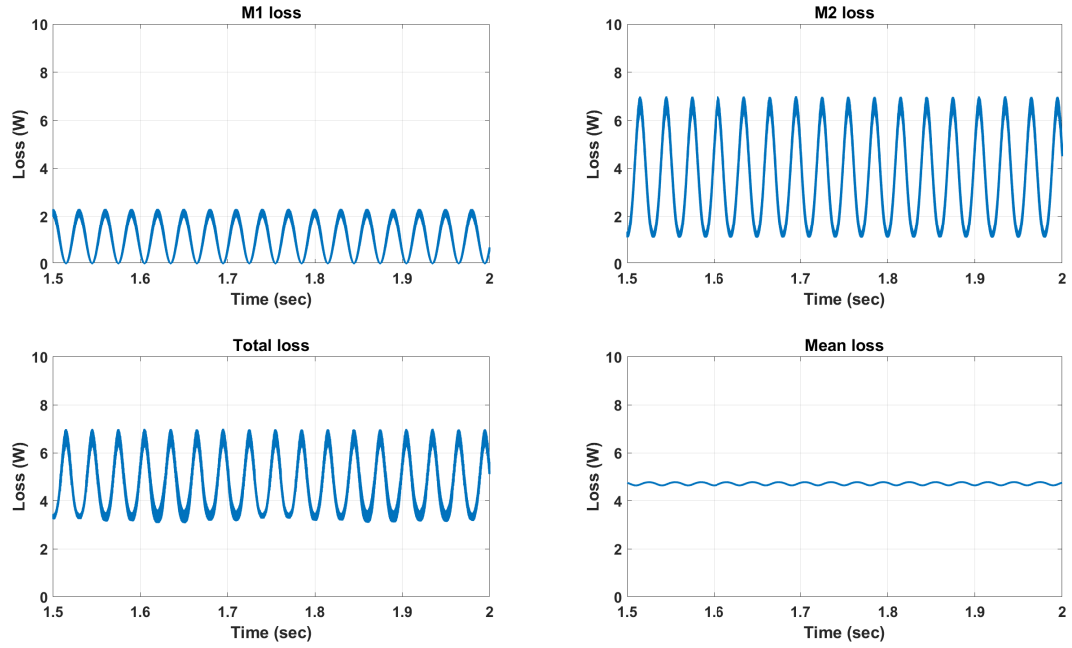


Figure 9: Module Losses for Proposed Optimum Distribution Closer

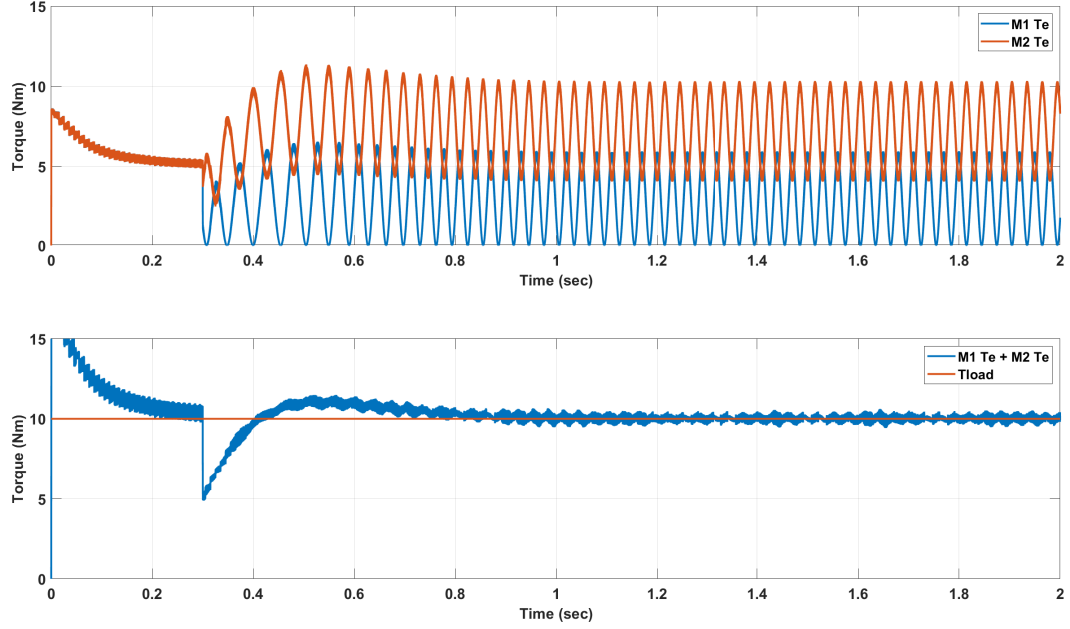


Figure 10: Module Losses for Proposed Optimum Distribution

4 MyMethod

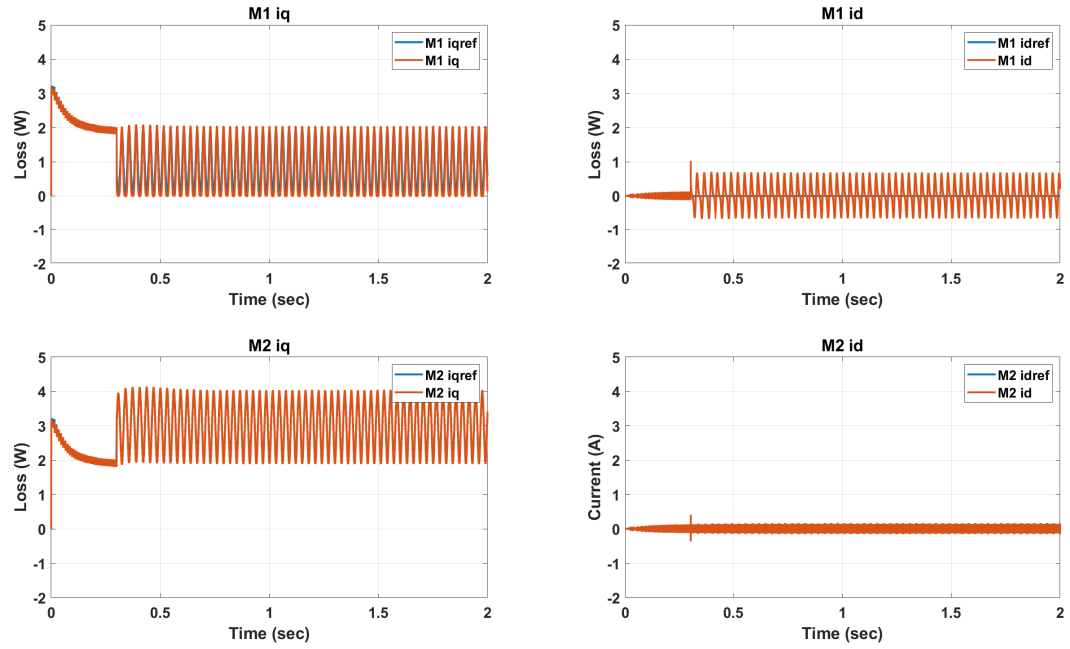


Figure 11: dq Phase Currents and References for My Method

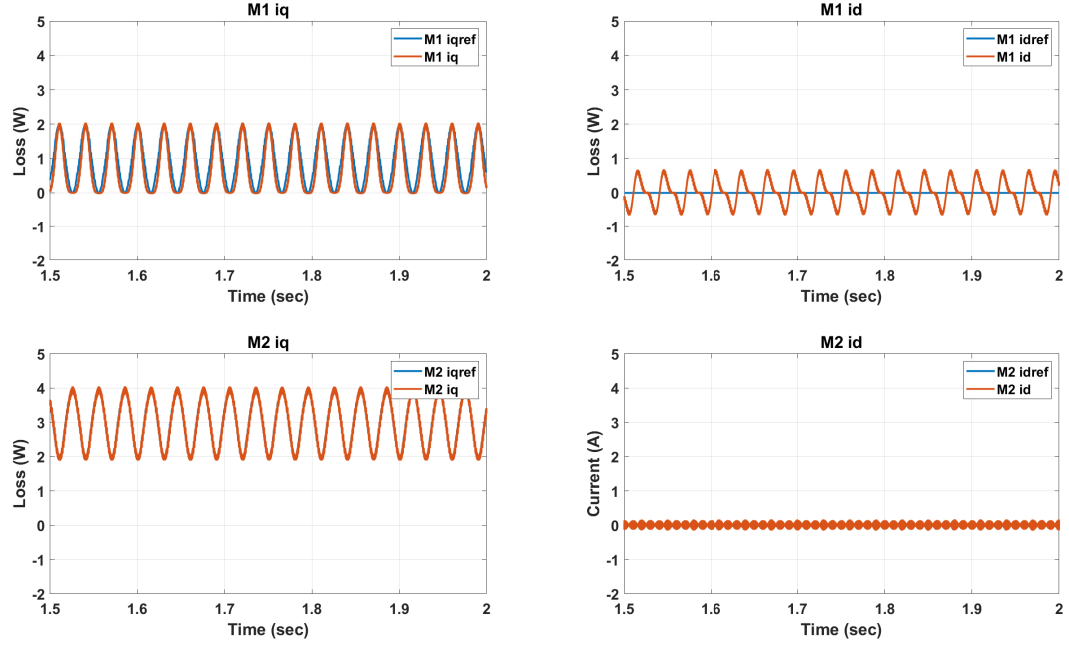


Figure 12: dq Phase Currents and References for My Method Closer

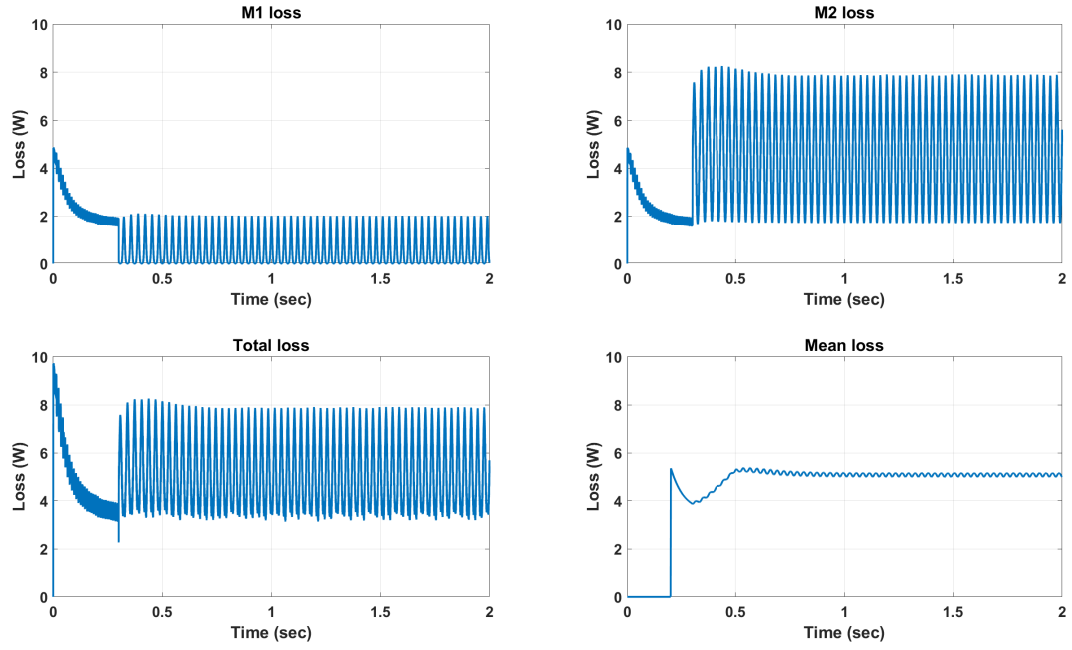


Figure 13: Module Losses for My Method

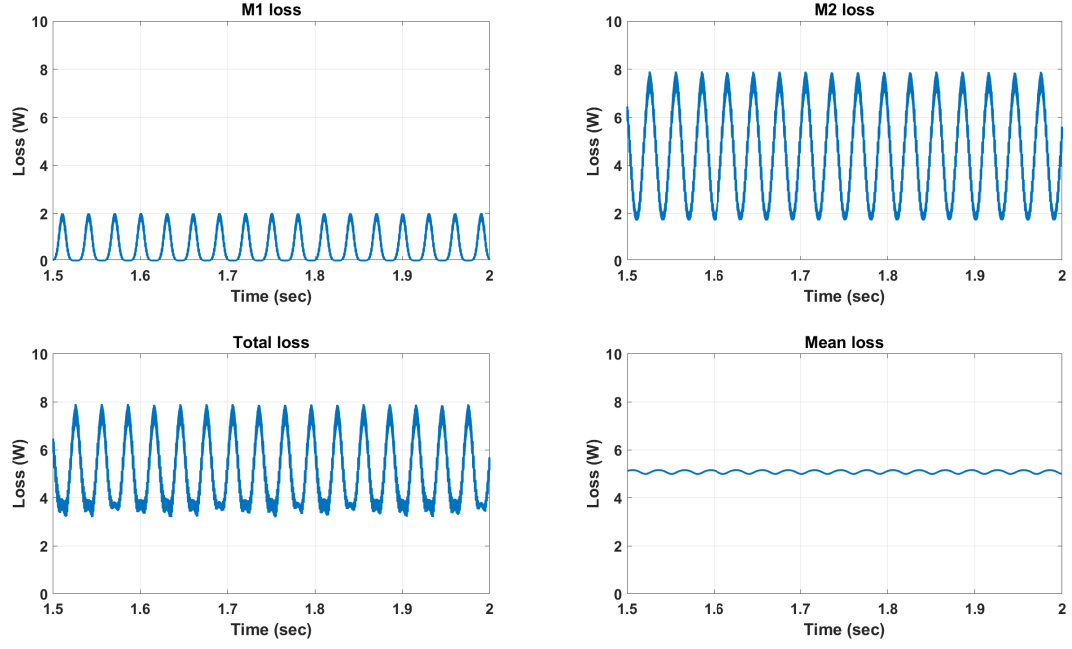


Figure 14: Module Losses for My Method Closer

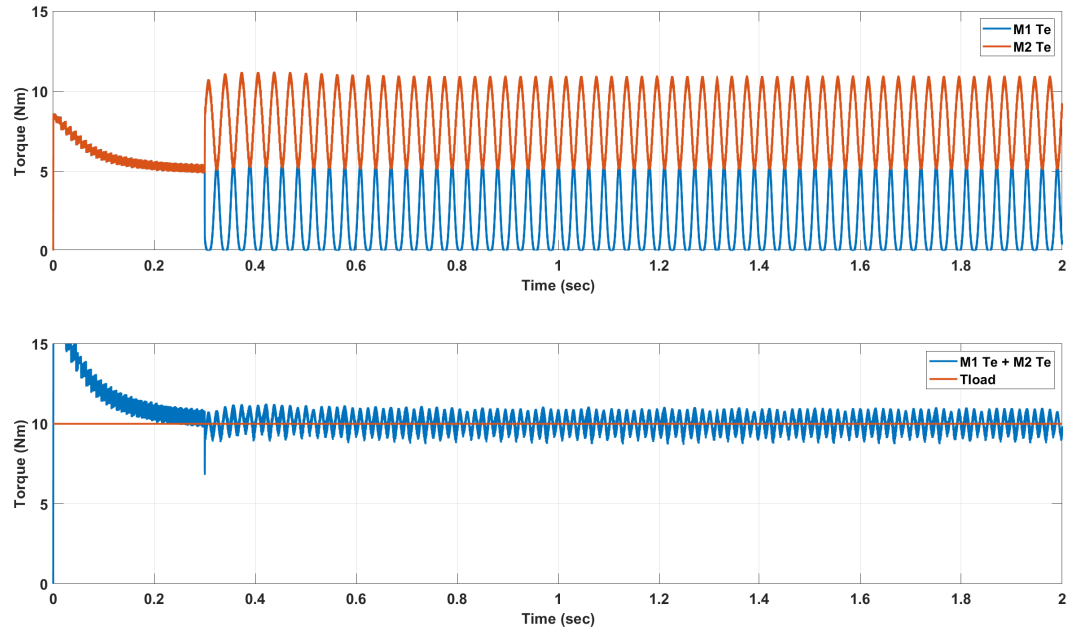


Figure 15: Module Losses for My Method

References