

# Power Electronics Add-On 1.9.0

- Added support for the Squirrel Cage Induction Machine (SCIM) including a Hardware Configuration with 4 Squirrel Cage Induction Machine models.
- Archived the following Hardware Configurations:
  - eHSx128\_Dual\_PMSM\_SH\_IO\_7976R
  - eHSx128\_Dual\_PMSM\_VDQ\_IO\_7976R
  - eHSx64\_IM\_IO\_7868R
  - eHSx64\_PMSM\_VDQ\_IO\_7868R
- Corrected the scaling of the Mechanical and Electrical Angle measurements within the Permanent Magnet Synchronous Machine and Brushless DC Motor model. This allows the user to now map these measurements to waveforms and to Analog Output channels.
- Added measurements to probe the latest value of the Ld, Lq, and Flux Linkage in the Permanent Magnet Synchronous Machine and Brushless DC Motor model. These now appear as new VeriStand channels.
- Added measurements to probe the latest value for the Vd and Vq in the Permanent Magnet Synchronous Machine and Brushless DC Motor model. These now appear as new VeriStand Channels.
- Added filtering on the P and Q measurements output by the Permanent Magnet Synchronous Machine and Brushless DC Motor model.
- Added VeriStand 2020 support
- Added measurements probing the latest value of the PWM Duty Cycle and Frequency for each Digital In channel. This capability was added for all currently supported Hardware Configurations.
- Added a new Hardware Configuration, eHSx32\_Dual\_PMSM\_VDQ\_IO\_32DO\_7868R to support the Permanent Magnet Synchronous Machine and Brushless DC Motor model with more Digital Out channels (32 DO and 16 DI).
- Improved installation process

[Migrating to 1.9.0](#)