

| | | | |
|--------------------------|--|--|-------------|
| Motor Rated Power | | | 575W |
|--------------------------|--|--|-------------|

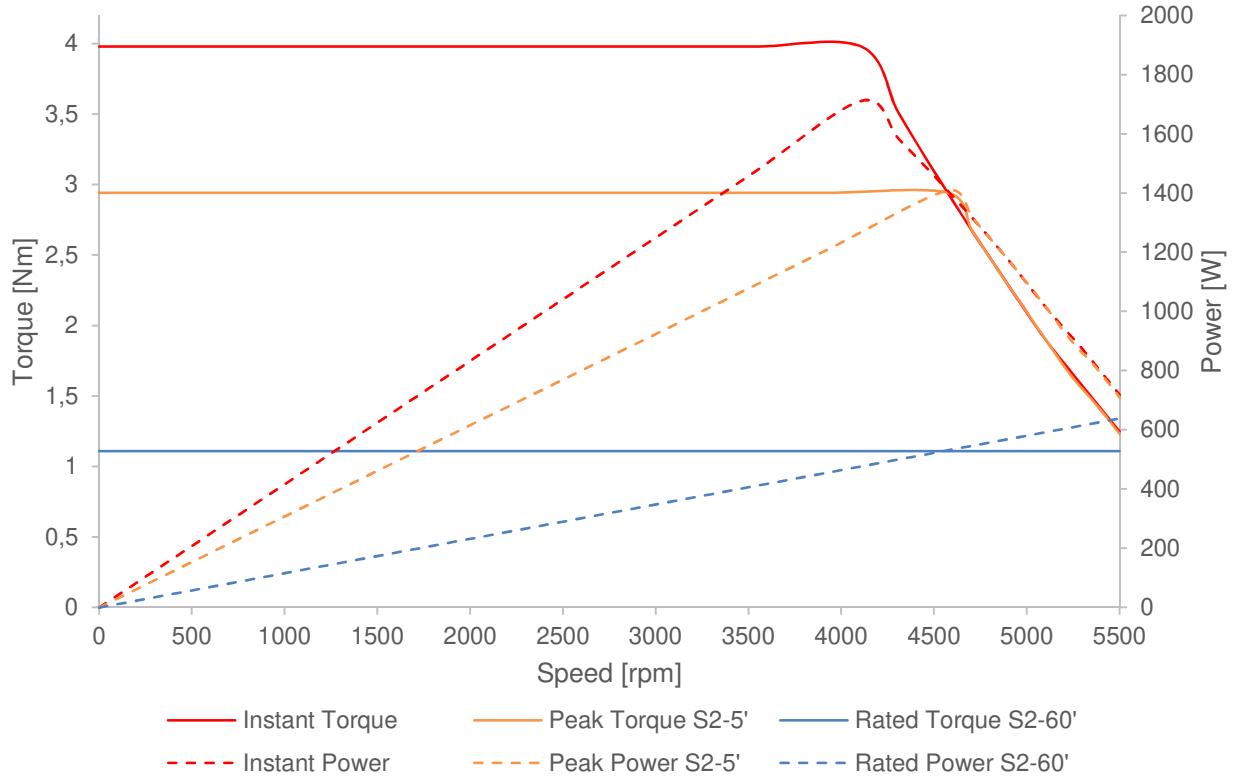
| | | | |
|------------------------------|--|--|--------------|
| Inverter Power Supply | | | 48Vdc |
|------------------------------|--|--|--------------|

| Description | Symbol | Unit | |
|---------------------------------|---------------|---------------------------|----------------------|
| <i>Duty</i> | - | - | S2-60min |
| <i>Nominal Speed</i> | n_n | <i>rpm</i> | 5000 |
| <i>Frequency (N° poles)</i> | $f (2p)$ | <i>Hz</i> | 250.0 (6) |
| <i>Maximum speed</i> | n_{MAX} | <i>rpm</i> | 5500 |
| <i>Costant Voltage</i> | K_e | <i>Vrms/Krpm</i> | 5.5 |
| <i>Costant Torque</i> | K_t | <i>Nm/Arms</i> | 0.09 |
| <i>Instant Torque</i> | T_{inst} | <i>Nm</i> | 3.90 |
| <i>Instant Current</i> | I_{inst} | <i>Arms</i> | 46.0 |
| <i>Peak Torque S2-5min</i> | T_{peak} | <i>Nm</i> | 2.70 |
| <i>Peak Current S2-5min</i> | I_{peak} | <i>Arms</i> | 34.0 |
| <i>Nominal Torque S2-60min</i> | T_n | <i>Nm</i> | 1.1 |
| <i>Nominal Current S2-60min</i> | I_n | <i>Arms</i> | 14.0 |
| <i>Rotor Inertia</i> | J_r | <i>kg x m²</i> | 1.0×10^{-4} |
| <i>Ambient Temperature</i> | θ_a | <i>°C</i> | -15 ÷ +40 |
| <i>Protection Degree</i> | IP | | IP 54 |
| <i>Insulation Class</i> | - | - | F |
| <i>Thermal protection</i> | - | - | PTY 84-130 |
| <i>Cooling system</i> | | | Air |

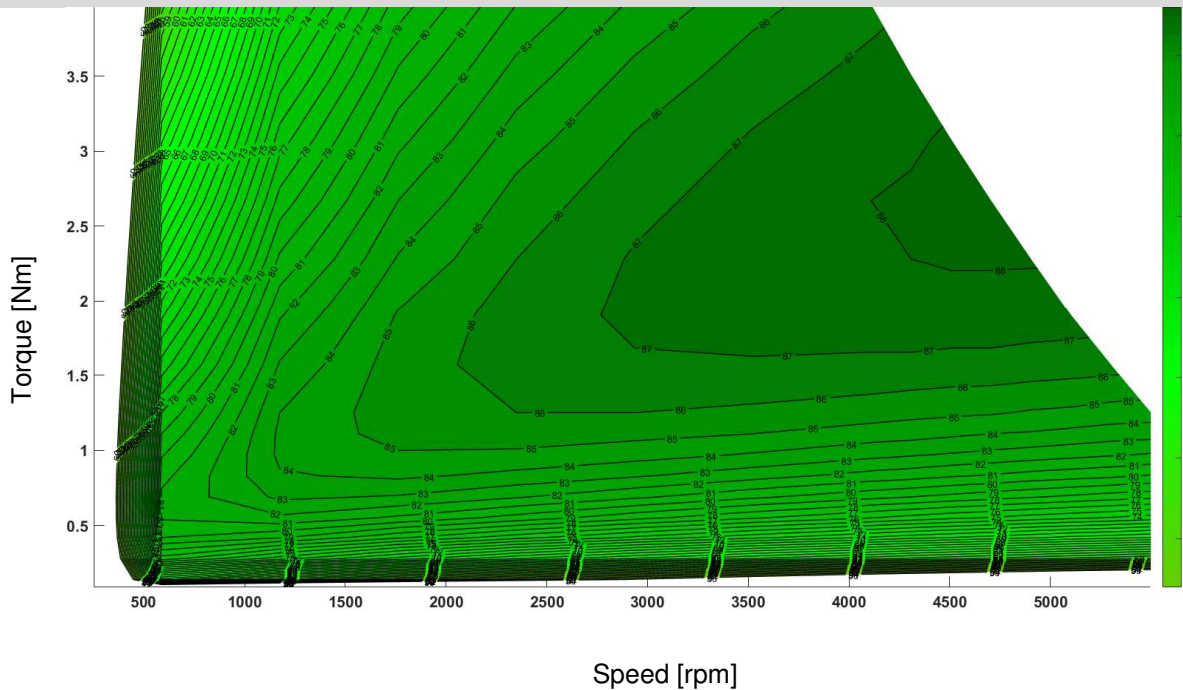
PRELIMINARY

Speed-Torque & Speed Power Motor Curves

SMAC 077-050



Efficiency Map % (*)



* MTPA Field Weakening strategy control & Optimized Advance Angle