<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Area swept by rotor blades (m²)</td>
</tr>
<tr>
<td>$C_{DC}$</td>
<td>DC capacitance</td>
</tr>
<tr>
<td>F</td>
<td>Frequency</td>
</tr>
<tr>
<td>$I_1$</td>
<td>Value of current at fundamental frequency</td>
</tr>
<tr>
<td>$I_n$</td>
<td>Harmonic current of nᵗʰ order</td>
</tr>
<tr>
<td>J</td>
<td>Polar moment of inertia</td>
</tr>
<tr>
<td>KE</td>
<td>Kinetic energy</td>
</tr>
<tr>
<td>m</td>
<td>Air mass per second (Kg/s)</td>
</tr>
<tr>
<td>$P_{\text{wind}}$</td>
<td>Wind power (NM/s or watts)</td>
</tr>
<tr>
<td>$P_{\text{wt}}$</td>
<td>Mechanical power of wind turbine (Nm/s)</td>
</tr>
<tr>
<td>$P_e$</td>
<td>Electrical power</td>
</tr>
<tr>
<td>P</td>
<td>Number of poles</td>
</tr>
<tr>
<td>R</td>
<td>Rotor radius</td>
</tr>
<tr>
<td>$S_{\text{base}}$</td>
<td>Rated power</td>
</tr>
<tr>
<td>S</td>
<td>Slip</td>
</tr>
<tr>
<td>T</td>
<td>Period of one cycle</td>
</tr>
<tr>
<td>V</td>
<td>Wind speed (m/s)</td>
</tr>
<tr>
<td>$V_n$</td>
<td>Harmonic voltage of nᵗʰ order</td>
</tr>
<tr>
<td>$V_1$</td>
<td>Value of voltage at fundamental frequency</td>
</tr>
<tr>
<td>$V_{\text{base}}$</td>
<td>Rated voltage</td>
</tr>
<tr>
<td>$V_{\text{CMAX}}$</td>
<td>Pre-set upper limit for voltage</td>
</tr>
<tr>
<td>$V_{dc}$</td>
<td>Voltage across capacitor</td>
</tr>
<tr>
<td>$W_S$</td>
<td>Synchronous speed</td>
</tr>
<tr>
<td>Wr</td>
<td>Rotor speed</td>
</tr>
<tr>
<td>w</td>
<td>Angular speed of the rotor</td>
</tr>
<tr>
<td>Z</td>
<td>Impedance</td>
</tr>
<tr>
<td>$\omega$</td>
<td>Hub speed (rad/sec)</td>
</tr>
<tr>
<td>$\rho$</td>
<td>Air density</td>
</tr>
<tr>
<td>Symbol</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>------------------------------------</td>
</tr>
<tr>
<td>( \beta )</td>
<td>Blade pitch angle (deg)</td>
</tr>
<tr>
<td>( \lambda ) or ( \gamma )</td>
<td>Tip speed ratio</td>
</tr>
<tr>
<td>( \Delta E_c )</td>
<td>Energy loss of the capacitor</td>
</tr>
<tr>
<td>( \Delta I_L )</td>
<td>Step drop of load current</td>
</tr>
<tr>
<td>( \alpha )</td>
<td>Delay angle</td>
</tr>
<tr>
<td>( \Omega )</td>
<td>Ohm</td>
</tr>
</tbody>
</table>