

```

1  FUNCTION_BLOCK DiameterComp
2  VAR_INPUT
3      MeterWirePulledOut : REAL ;
4      Tension_kg : REAL ;
5  END_VAR
6
7  VAR_OUTPUT
8      TorquePercent : REAL ;
9  END_VAR
10

```

1 Calculation from tension in [kg] to torque in [%].  
 14.6% extra torque is added when the wire is fully in, as the effective diameter of the drum is changing.  
 Limits the torque to 20kg when less than 10m wire, otherwise the motor can tend oscillate at stillstand.

