

Model	All empirical values available	Speed behavior compared to measurement	Load behavior compared to measurement	No-load friction compared to measurement
Palmgren	No	Good (no speed dependence)	(Adjusted to empirical value)	(Adjusted to empirical value)
Manufacturer 1	No	Good (no speed dependence)	Poor (67 % underestimated)	(Adjusted to empirical value)
Wang	Yes	Poor (55 % average increase from 3 to 6° s ⁻¹)	Poor (39 % underestimated)	Not determined
Manufacturer 2	Yes	Good (no speed dependence)	Fair (15 % overestimated)	–