

L_m	Mutual inductance
J	Total inertia
p	Number of pole pairs
K_f	Friction coefficient

APPENDIX B

DSIM motor parameters.

Item	Symbol	Data
DSIM Mechanical Power	P_w	4.5 kW
Nominal Voltage	V_n	220 V

Nominal Current	I_n	6.5 A
Nominal speed	ω_n	300 rad/s
Pole pairs number	p	1
Stators resistances	$R_{s1} = R_{s2}$	3.72 Ω
rotor resistance	R_r	2.12 Ω
Stators self inductances	$L_{s1} = L_{s2}$	0.22 H
rotor self inductance	L_r	0.006 H
mutual inductance	L_m	0.3672 H
Moment of inertia	J	0.625 kg.m ²
friction coefficient	K_f	0.001 Nms/rad
Nominal Frequency	f	50 Hz