LIST OF SYMBOLS AND ABBREVIATIONS

AC	-	Alternating Current
i_{ai}	-	a-phase inverter output current
i_{ar}	-	a-phase rotor current
i_{as}	-	a-phase stator current
v_{as}	-	a-phase stator voltage
ω_b	-	Base speed
i_{bi}	-	b-phase inverter output current
i_{br}	-	b-phase rotor current
i_{bs}	-	b-phase stator current
v_{bs}	-	b-phase stator voltage
$\dot{\lambda}_r^{\ r}$	-	Change in rotor flux w.r.t in rotor reference frame
$\dot{\lambda}_s^{\ s}$	-	Change in stator flux w.r.t in stator reference frame
V_α	-	Control voltage
i_{ci}	-	c-phase inverter output current
i_{cr}	-	c-phase rotor current
i_{cs}	-	c-phase stator current
v_{cs}	-	c-phase stator voltage
K_i	-	Current controller gain
τ_i	-	Current controller time constant
τ_{if}	-	Current filter time constant
K_{cs}	-	Current sensor gain
CSI	-	Current Source Inverter
CS-SVM	-	Current Source Space Vector Modulation
i_{di}	-	d-axis inverter output current
λ_{dm}	-	d-axis magnetizing flux

i_{dr}	-	d-axis rotor current
${i_{dr}}^{e}$	-	d-axis rotor current in synchronous reference frame
λ_{dr}	-	d-axis rotor flux
${\lambda_{dr}}^{e}$	-	d-axis rotor flux in synchronous reference frame
i_{ds}	-	d-axis stator current
${i_{ds}}^{s}$	-	d-axis stator current in stator reference frame
${i_{ds}}^{e}$	-	d-axis stator current in synchronous reference frame
λ_{ds}	-	d-axis stator flux
v_{ds}	-	d-axis stator voltage
${v_{ds}}^{s}$	-	d-axis stator voltage in stator rotating frame
${v_{ds}}^{e}$	-	d-axis stator voltage in synchronous reference frame
${i_{dr}}'^{s}$	-	d-axis stator-referred rotor current in stator reference frame
${i_{dr}}'^{e}$	-	d-axis stator-referred rotor current in synchronous ref. frame
I_{dc} , I_d	-	DC link current
L_{dc}	-	DC link inductance
v_{dc}	-	DC link voltage
α	-	Delay angle or firing angle
DC	-	Direct Current
DTC	-	Direct Torque Control
T_e	-	Electromagnetic torque
I_f	-	Feedback current form current filter
FLC	-	Feedback Linearization Control
θ_f	-	Field angle
FOC	-	Field Oriented Control
IFOC	-	Indirect Field Oriented Control
IM	-	Induction Motor
i'_{dr0}	-	Initial value of d-axis stator-referred rotor current
i_{qs0}	-	Initial value of q-axis stator current

i'_{qr0}	-	Initial value of q-axis stator-referred rotor current
ω_{e0}	-	Initial value of synchronous speed
IOL	-	Input Output Linearization
σ_m	-	Leakage factor
L_l	-	Leakage inductance referred to the stator side.
v_{cb}	-	Line voltage between c and b phases
T_L	-	Load torque
${\lambda_m}^a$	-	Magnetic flux in arbitrary reference frame
L_m	-	Magnetizing inductance
x_m	-	Magnetizing or mutual reactance
J	-	Moment of inertia of the induction motor and load
ω_{mf}	-	Motor speed from speed filter
ω_{me}	-	Motor speed in electrical radians
N_r	-	Number of rotor turns
N_s	-	Number of stator turns
C	-	Output capacitor
PWM	-	Pulse Width Modulation
i_{qi}	-	q-axis inverter output current
λ_{qm}	-	q-axis magnetizing flux
i_{qr}	-	q-axis rotor current
${i_{qr}}^e$	-	q-axis rotor current in synchronous reference frame
λ_{qr}	-	q-axis rotor flux
${\lambda_{qr}}^e$	-	q-axis rotor flux in synchronous reference frame
i_{qs}	-	q-axis stator current
${i_{qs}}^s$	-	q-axis stator current in stator reference frame
${i_{qs}}^e$	-	q-axis stator current in synchronous reference frame
λ_{qs}	-	q-axis stator flux
v_{qs}	-	q-axis stator voltage

$v_{qs}{}^{s}$	-	q-axis stator voltage in stator rotating frame
$v_{qs}{}^{e}$	-	q-axis stator voltage in synchronous reference frame
$i_{qr}{}'^{s}$	-	q-axis stator-referred rotor current in stator reference frame
$i_{qr}{}'^{e}$	-	q-axis stator-referred rotor current in synchronous ref. frame
θ_r	-	Relative displacement angle of ar axis w.r.t as axis
R_{dc}	-	Resistance of dc link inductor
$i_r{}^{a}$	-	Rotor current in arbitrary reference frame
$i_r{}^{r}$	-	Rotor current in rotor reference frame
λ_r	-	Rotor flux
$\lambda_r{}^{a}$	-	Rotor flux in arbitrary reference frame
RFO	-	Rotor Flux Oriented
L_r	-	Rotor inductance
L_{lr}	-	Rotor leakage inductance
x_r'	-	Rotor reactance referred from stator
R_r	-	Rotor Resistance
$R_r{}'$	-	Rotor resistance referred from stator
ω_r	-	Rotor speed
$v_r{}^{r}$	-	Rotor voltage in rotor reference frame
s	-	Slip
θ_{sl}	-	Slip angle
ω_{sl}	-	Slip speed
SVM	-	Space Vector Modulation
K_s	-	Speed controller gain
τ_s	-	Speed controller time constant
τ_{sf}	-	Speed filter time constant
K_{ss}	-	Speed sensor gain
i_s	-	Stator current
$i_s{}^{a}$	-	Stator current in arbitrary reference frame

$i_s{}^s$	-	Stator current in stator reference frame
λ_s	-	Stator flux
$\lambda_s{}^a$	-	Stator flux in arbitrary reference frame
SFO	-	Stator Flux Oriented
L_{ls}	-	Stator leakage inductance
x_s	-	Stator reactance
R_s	-	Stator resistance
v_s	-	Stator voltage
$v_s{}^s$	-	Stator voltage in stator reference frame
ω_e	-	Synchronous speed
K_{te}	-	Torque coefficient
VSI	-	Voltage Source Inverter
VS-SVM	-	Voltage Source Space Vector Modulation
V/F	-	Volts to Frequency
$i_{\alpha s}$	-	α-axis stator current in stationary reference frame
$\lambda_{\alpha s}$	-	α-axis stator flux in stationary reference frame
$i_{\beta s}$	-	β-axis stator current in stationary reference frame
$\lambda_{\beta s}$	-	β-axis stator flux in stationary reference frame