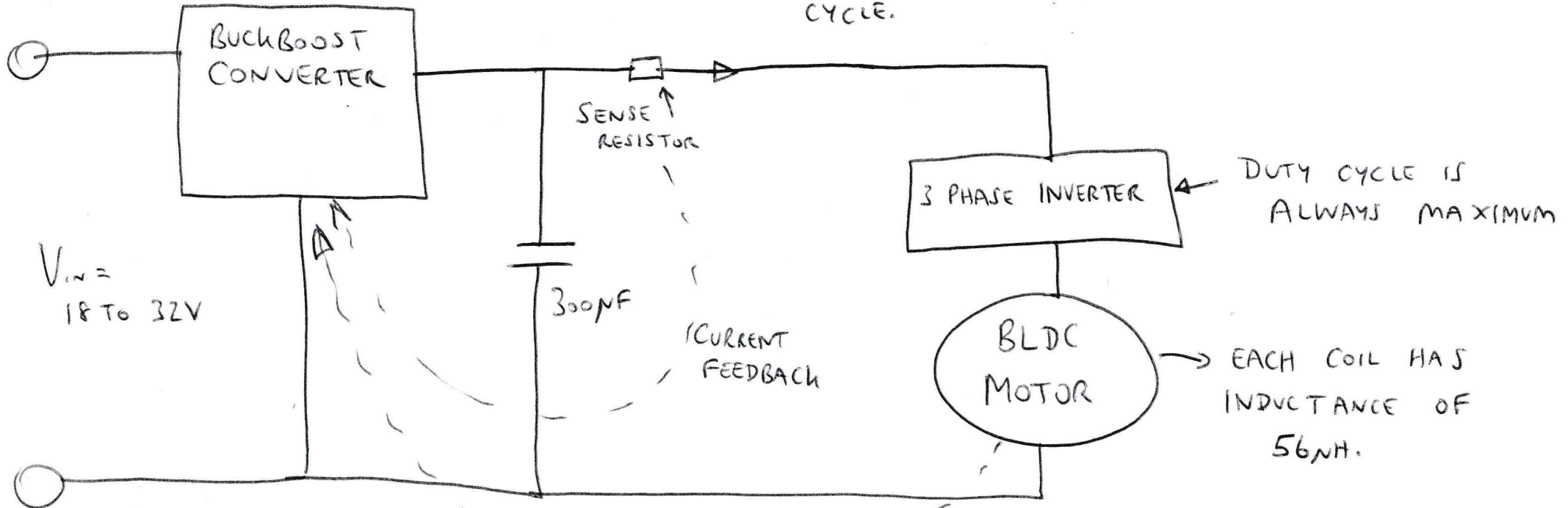


THE CURRENT TO THE
INVERTER/MOTOR IS REGULATED
BY A FEEDBACK LOOP WHICH
ADJUSTS THE BUCKBOOST DUTY
CYCLE.



SPEED
FEEDBACK.

THE SPEED FEEDBACK LOOP IS
MUCH SLOWER THAN THE CURRENT
FEEDBACK LOOP..... THE SPEED FEEDBACK LOOP
SETS THE REFERENCE FOR THE CURRENT FEEDBACK LOOP

MOTOR COIL COMMUTATION
PERIOD = 1.05ms

RESONANT PERIOD OF MOTOR
COIL AND DC LINK CAPACITOR
IS 814µs

LESS THAN COMMUTATION PERIOD!!!