Description of elements in the example .json file

Nodes.py			
Variable Name	Туре	Description	Units
name	String	Name of the node	N/A
phase	String	Phase of the node	N/A

VoltageSources (Sinusoidal Voltage Sources)				
Variable Name	Туре	Description	Units	
name	String	Name of the node	N/A	
vp_node	String	The node connection at the positive terminal of the voltage source.	N/A	
vn_node	String	The node connection at the negative terminal of the voltage source.	N/A	
amp_ph_ph_rms	Float	The phase-phase RMS amplitude.	Volts	
phase_deg	Float	The phase angle	Degrees	
frequency_hz	Float	The frequency	Hz	

Resistors			

Variable Name	Туре	Description	Units
name	String	Name of the node	N/A
from_node	String	The node connection at	N/A
		the sending end of the	
		circuit element.	
to_node	String	The node connection at	N/A
		the receiving end of	
		the circuit element.	
r	Float	The resistance	Ω

Capacitors			
Variable Name	Туре	Description	Units
name	String	Name of the node	N/A
from_node	String	The node connection at the sending end of the circuit element.	N/A
to_node	String	The node connection at the receiving end of the circuit element.	N/A
С	Float	The inductance	Farads

Inductors			
Variable Name	Туре	Description	Units

name	String	Name of the node	N/A
from_node	String	The node connection at the sending end of the circuit element.	N/A
to_node	String	The node connection at the receiving end of the circuit element.	N/A
L	Float	The inductance	Н

Switches				
Variable Name	Туре	Description	Units	
name	String	Name of the node	N/A	
from_node	String	The node connection at the sending end of the circuit element.	N/A	
to_node	String	The node connection at the receiving end of the circuit element.	N/A	
t_open	Float	Time at which to open the switch	sec	
t_close	Float	Time at which to close the switch	sec	

Induction Motor				
Variable Name	Туре	Description	Units	
name	String	Name of the node	N/A	
phase_a_node	String	The node that is connected to phase A of the induction motor.	N/A	
phase_b_node	String	The node that is connected to phase B of the induction motor.	N/A	
phase_c_node	Float	The node that is connected to phase C of the induction motor.	N/A	
power_nom	Float	Time at which to close the switch	sec	
v_nom	Float	Nominal voltage for the motor (RMS values)	Volts	
f	Float	frequency	Hz	
rs	Float	Stator resistance	Ω	
lm	Float	Mutual inductance	Н	
rr	Float	Rotor resistance	Ω	

lls	Float	Stator leakage reactance	Н
Ilr	Float	Rotor leakage reactance	Н
j	Float	Combined inertia of motor and load	kgm^2
tm	Float	Mechanical Torque	Nm
d_fric	Float	Combined viscous friction of motor and load	$\frac{Nm}{rad}$. S
n_pole_pairs	Float	No. of pole pairs	N/A