



Motor Data

Motor model	SME8013848H		
1 Nominal voltage	VT	48	VDC
2 No load speed	Wnl	5100	rpm
3 No load current	InI	2.5	A
4 Nominal speed	Wc	4100	rpm
5 Nominal torque	Tc	1.75	Nm
6 Peak torque	TP	12.25	Nm
7 Nominal current	Ic	19.9	A
8 Maximum current	IP	139.2	A
9 Nominal power	PR	750	watts
10 Maximum available power	PR	1790	watts
11 Current at maximum available power	IP	58	A
12 Terminal resistance	Rt	0.15	Ω
13 Terminal inductance	L	70	μH
14 Torque constant	Kt	0.088	Nm /A
15 Mechanical time constant	Tm	2.26	ms
16 Electric time constant	Te	0.47	ms
17 Rotor inertia	J	1.2	Kg*cm ²
18 Max. winding temperature	Temp	120	°C
19 Number of pole pairs	p	4	
20 Weight	Wt	2.7	kg
21 Motor insulation class		F	
22 Protection class		IP65	
23 Ambient temperature		0~40°C	
24 Encoder options		Incremental 2500PPR	Magnetic 2500PPR
25 Terminal definitions		U:green V: black W: red	
26 Encoder Terminal definitions		A+:green A-:green-black B+:white B-:white-black Z+:yellow Z-:yellow-black U+:brown U-:brown-black V+:gray V-:gray-black W+:orange W-:orange-black +5V:red GND:black	

Operating Range

A: Continuous Working Area
B: Repeatedly Working Area

