OSW - Kollmorgen AKM52M-ANCNC-00								
U _N	Data	Symbol	52M	53G	ACTUAL MOTOR LABEL			
Electrical data								
	Standstill torque*	M _o [Nm]**	8.60	11.4	KOLLMORGEN			a all
	Standstill current	I _{0rms} [A]**	13.1	4.77	30 PM SERVOMOTOR			
	max. Mains voltage	U _N [VAC]		-	MODEL: AKM52M-ANCNC-00	The us		7
75VDC	Rated speed	n _n [rpm]			los 12.6 Arms	E61960 KM-180		
	Rated torque*	M _n [Nm]			Tos 8.26 Nm Vs 320 VDC			a a a
	Rated power	P _n [kW]			Prtd 2.29 kW	CC		Carried Ct.
115V	Rated speed	n _n [rpm]			Rm 0.49 Ω (L-L)@25°C	77	a set	
	Rated torque*	M _n [Nm]			AMBIENT 40°C IP54 E	N60034-1 N60034-5	8	
	Rated power	P _n [kW]			Made in U.S.A -R03 WWW.Kollmor	gen.com		
230V	Rated speed	n _n [rpm]	4500					*
	Rated torque*		5.20				and the second second	
	Rated power	P _n [KVV]	2.45		Calculations: To achieve motor Peak Torqu	ue AKM52M	AKM53G	IONI PRO HC (25A MAX)
400V	Rated torque*	M [Nm]			Peak Torque/Torque Constant = Current (A)			
	Rated power	P [kW]	_		21 9/0 66 = 33 2 A	33 2 A	12 4 A	25 A
	Rated speed	n _n [rpm]		2400	Current*Winding Resistance = Voltage (V)	00.27	12.17	2071
480V	Rated torque*	M _n [Nm]		9.50	33.2*0.40 - 16.2 V	16.2.1/	40.2 \/	12.25.\/
	Rated power	P _n [kW]		2.39	33.2 0.49 - 10.2 V	10.2 V	49.2 V	12.23 V
	Peak current	I _{0max} [A]	39.4	14.3	Voltage*Current = Power (W)			
	Peak torque	M _{0max} [Nm]	21.9	29.7	16.2*33.2 = 538 W	538 W	610 W	306 W
	Voltage constant	K [m\/min]	42.4	2.39	Drive Voltage/Mains Voltage*Rated Speed = RPM			
	Winding resistance p-	-p $R_{-1}[\Omega]$	0.49	3.97	16.2/230*4500	317 rpm	214 rpm	240 rpm
	Winding inductance p	p-p L [mH]	2.50	21.3	Torque Constant*Current = Peak Torque	21.9 Nm	29.7 Nm	16.5 Nm
SimuCube + Ioni Drive Pro HC								
Motor output current1 AC/BLDC/Stepping/Linear motors (current specified as peak of sine): IONI 0-15 A IONI Pro 0-18 A IONI Pro HC 0-25 A								
Given the Ioni Pro HC can only output a max 25 A to the Motor, the Peak Torque for the AKM52M = 16.5 Nm ??								
Ques	tions:							
What is the Vs 320 VDC on the motor label mean? (The table only has values for 230VDC)								
Is this motor suitable for an OSW build?								
What	spec power supply	is required to ge	t the be	st perfor	mance from this motor?			
Resources:								
https://www.kollmorgen.com/en-us/products/motors/servo/akm-series/akm-series-ac-synchronous-motors/ac-synchronous-servo-motors/#tab5								
http://kamanautomation.com/product/kollmorgen-akm52m-240-v/								
https://granitedevices.com/wiki/SimuCUBE_technical_specifications								
https:/	granitedevices.com	n/wiki/IONI_spec	cificatio	ns				
http://www.isrtv.com/forums/topic/23904-looking-to-build-an-osw-setup-with-simucube-and-kollmorgen-akm-motor-could-use-some-help/								