

NP VOLTS	460	MAX RPM	3000	WYE Connected HVC	
NP AMPS	21.6	Base Volt	480	BEMF	241
HP	20	NL AMPS	0.1	Ld	10.0
BASE SPEED	1800	S.F.	1.50	Lq	35.9
PHASE/HZ	3/60	WK ² (lb-ft ²)	232	Rs	0.330
					Meas L-L

Motor Rated Full Load Data

	RPM	HP	Torque	Volts	Freq-Hz	Amps
Base Speed	1800	20.0	58.4	460	60	21.6
Max Speed	3000	20.0	35.0	460	100.0	21.6
Min Speed	180	0.8	58.4	460	6.0	21.6

Motor Load Performance at Base Speed

	RPM	HP	Torque	Volts	Eff	Amps
No Load	1800	0.0	0.0	460	N/A	0.1
1/4	1800	5.0	14.6	460	81.7	5.4
1/2	1800	10.0	29.2	460	91.2	10.8
3/4	1800	15.0	43.8	460	94.1	16.2
Full Load	1800	20.0	58.4	460	95.0	21.6
O/L	1800	30.0	87.5	460	N/A	32.4

Remarks: Calculated Data
ECS Vector PWM IPM

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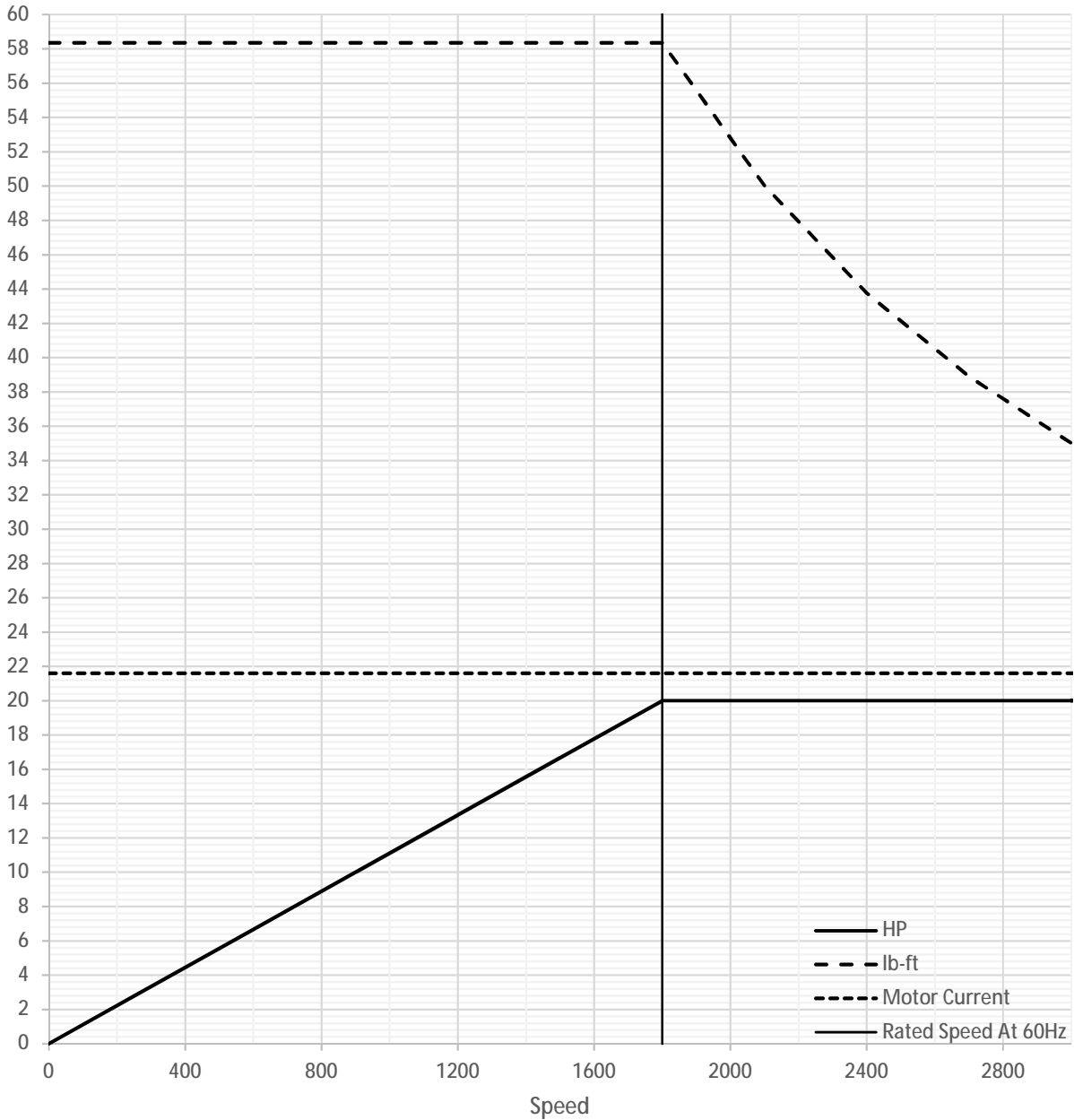
DR BY R&D
CK BY USJAROB1
APP BY ENG
DATE 8/17/2020

A-C MOTOR PERFORMANCE CURVES
ECS101M4H20FF4
37WGA0019-B001

NP VOLTS	460	MAX RPM	3000	WYE Connected HVC		
NP AMPS	21.6	Base Volt	480	BEMF	241	
HP	20	NL AMPS	0.1	Ld	10.0	
BASE SPEED	1800	S.F.	1.5	Lq	35.9	
PHASE/HZ	3/60	WK ² (lb-ft ²)	232	Rs	0.330	Meas L-L

Motor Performance Capability at Rated Load, ECS Vector PWM

Variable Speed IPM Motor Curves



Calculated Data

Data Valid For Nameplate Ratings

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 DATE 8/17/2020

A-C MOTOR
 PERFORMANCE
 CURVES

Calculated Data
 37WGA0019-B001