

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer : V.J. PAMENSKY CANADA INC.

Sales document : 50067450 - 20

Product line :

Part # : JP040402NPW22286JP

Frame	: 284/6JP	Locked rotor time	: 7 s (hot) 13 s (cold)
Output	: 40 HP (30 kW)	Temperature rise ⁴	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20 °C to +40 °C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l
Rated current	: 92.6/46.3 A	Degree of protection	: IP55
L. R. Amperes	: 796/398 A	Cooling method	: TEFC
LRC (p.u.)	: 8.6	Mounting	: F-1
No load current	: 25.0/12.5 A	Direct of rotation ¹	: Both
Rated speed	: 3550 rpm	Noise level ²	: 72.0 dB(A)
Slip	: 1.39 %	Starting method	: Direct On Line
Rated torque	: 59.1 ft.lb	Approx. weight ³	: 419 lb
Locked rotor torque	: 310 %	Design	: A
Pull up torque	: 230 %		
Breakdown torque	: 310 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 2.95 sq.ft.lb		

Output	50%	75%	100%	Load type: -
Efficiency (%)	91.7	92.4	92.4	Load torque: -
Power factor	0.76	0.85	0.88	Load inertia (J=GD ² /4): -

	Drive end	Non drive end
Bearing type	6311-C3	6211-C3
Lubrication interval	14000 h	17000 h
Lubricant amount	18 g	11 g
Lubricant type	MOBIL POLYREX EM	

Notes:
W22 - NEMA Premium Efficiency.

Standards	Specification	: MG1 - Part 10	Vibration	: MG1 - Part 7
	Tests	: MG1 - Part 12	Tolerance	: MG1 - Part 12
	Noise	: MG1 - Part 9		

This revision replaces and cancels the previous one, which must be eliminated.
 (1) When viewed from the drive end.
 (2) Measured at 1m and with tolerance of +3dB(A).
 (3) Approximate weight subject to changes after manufacturing process.
 (4) At the rated point.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG 1-12.

Rev.	Summary of changes	Performed	Checked	Date
Performed by	luanamc			490668/2018
Checked by	roselaineb			Page Revision
Date	13/07/2020			1/5 1

TORQUE AND CURRENT X SPEED CURVE



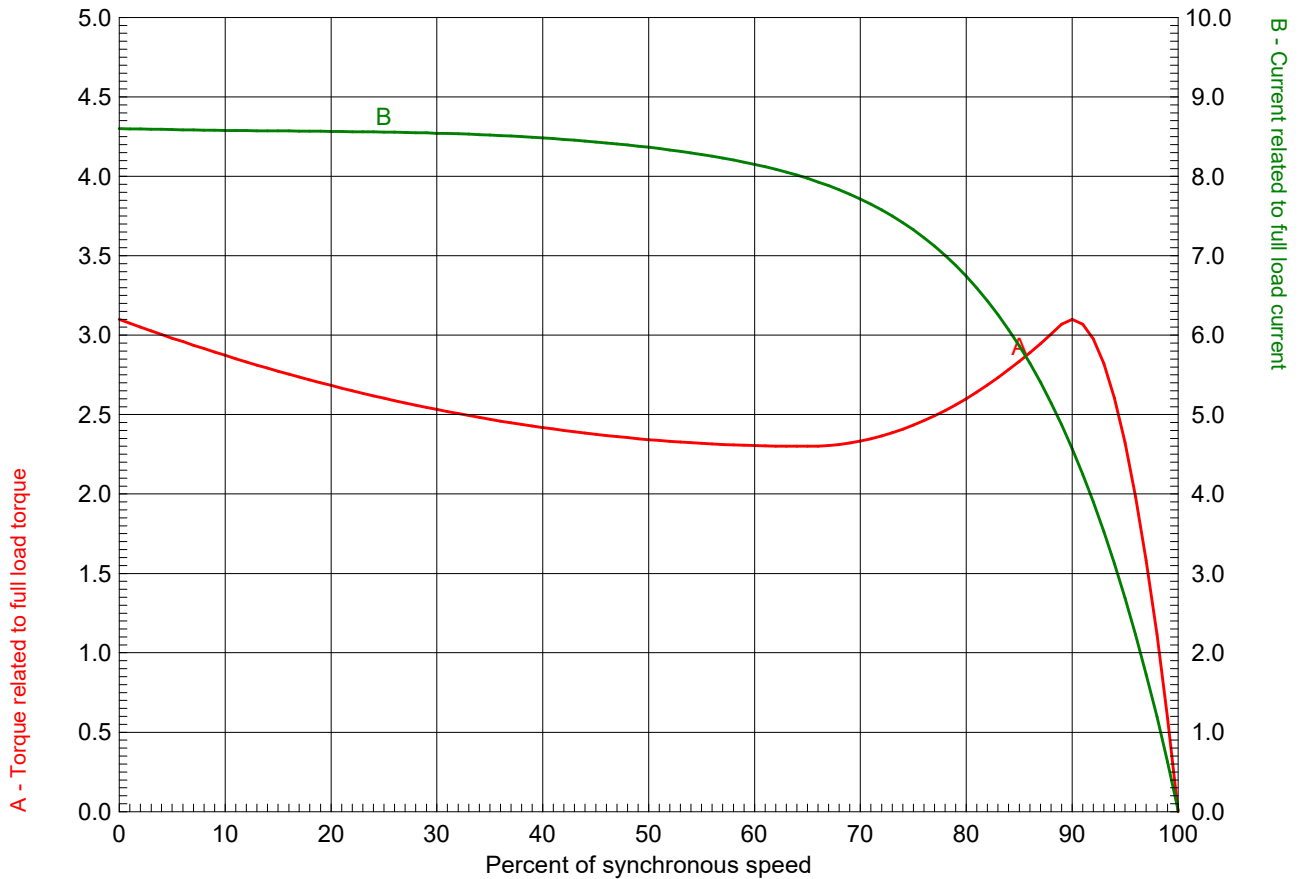
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Rated current	: 92.6/46.3 A	Moment of inertia (J)	: 2.95 sq.ft.lb
LRC (p.u.)	: 8.6	Duty cycle	: Cont.(S1)
Rated torque	: 59.1 ft.lb	Insulation class	: F
Locked rotor torque	: 310 %	Service factor	: 1.25
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 3550 rpm	Design	: A

Locked rotor time 100% : 7 s (hot) 13 s (cold)
 Load inertia (J=GD²/4) : 2.9496 sq.ft.lb

Rev.	Summary of changes		Performed	Checked	Date
Performed by	luanamc			490668/2018	
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Date	13/07/2020			2/5	1

LOAD PERFORMANCE CURVE



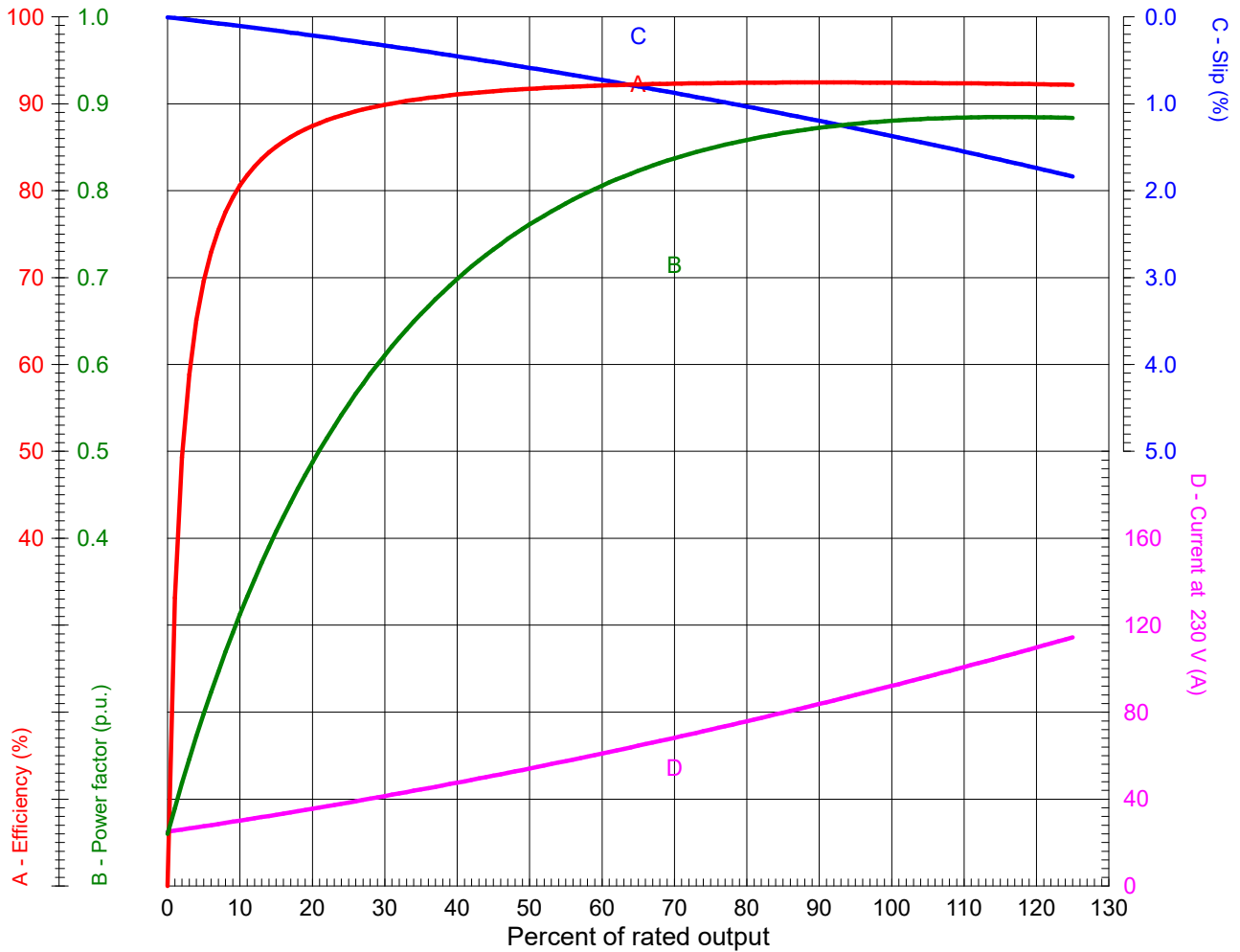
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LRC (p.u.)	: 8.6	Duty cycle	: Cont.(S1)
Rated torque	: 59.1 ft.lb	Insulation class	: F
Locked rotor torque	: 310 %	Service factor	: 1.25
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 3550 rpm	Design	: A

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THERMAL LIMIT CURVE



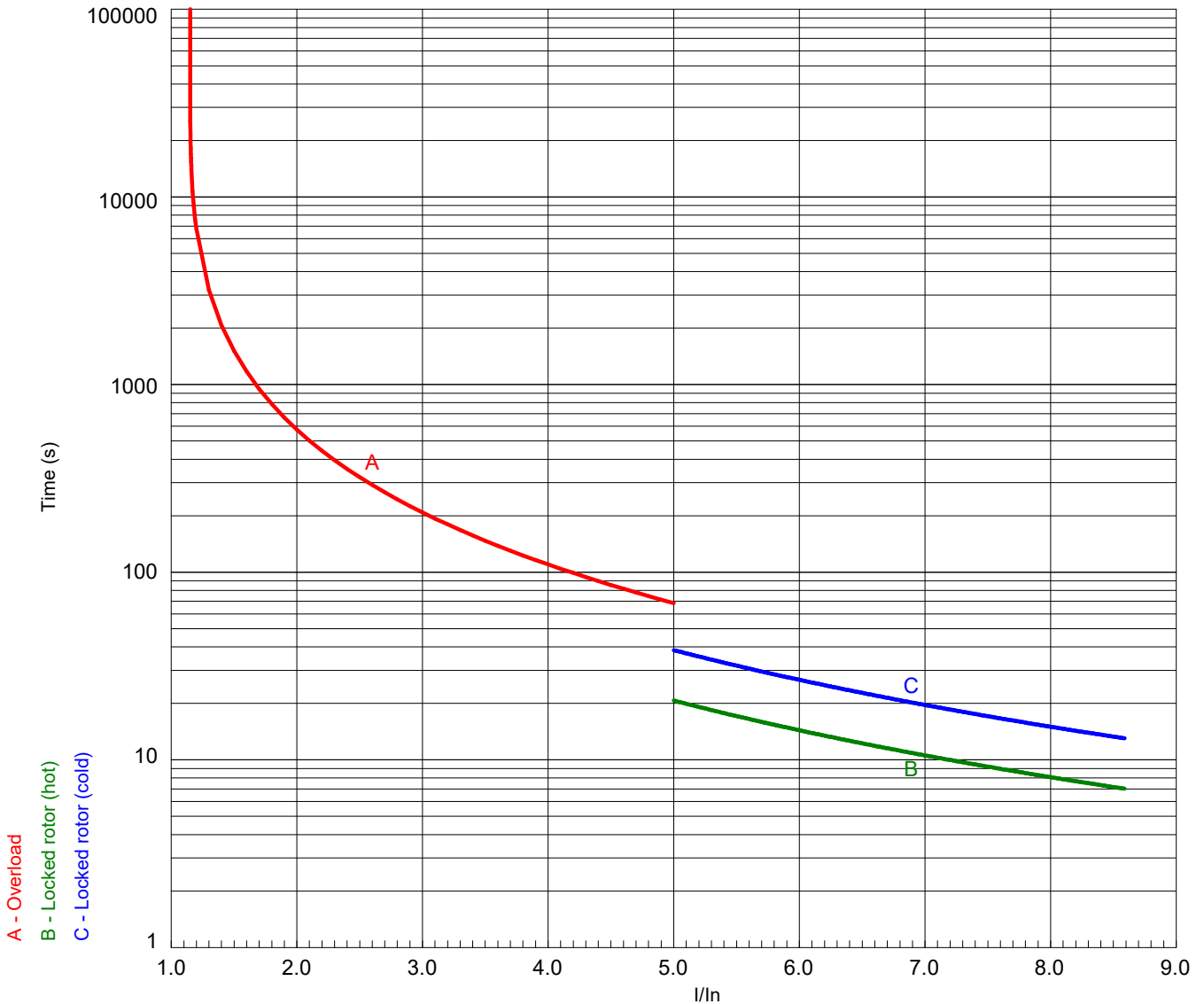
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LRC (p.u.) : 8.6	Duty cycle : Cont.(S1)
Rated torque : 59.1 ft.lb	Insulation class : F
Locked rotor torque : 310 %	Service factor : 1.25
Breakdown torque : 310 %	Temperature rise : 80 K
Rated speed : 3550 rpm	Design : A

Heating constant : 27.9 min
Cooling constant : 83.7 min

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Performed by	luanamc			490668/2018
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VFD OPERATION CURVE



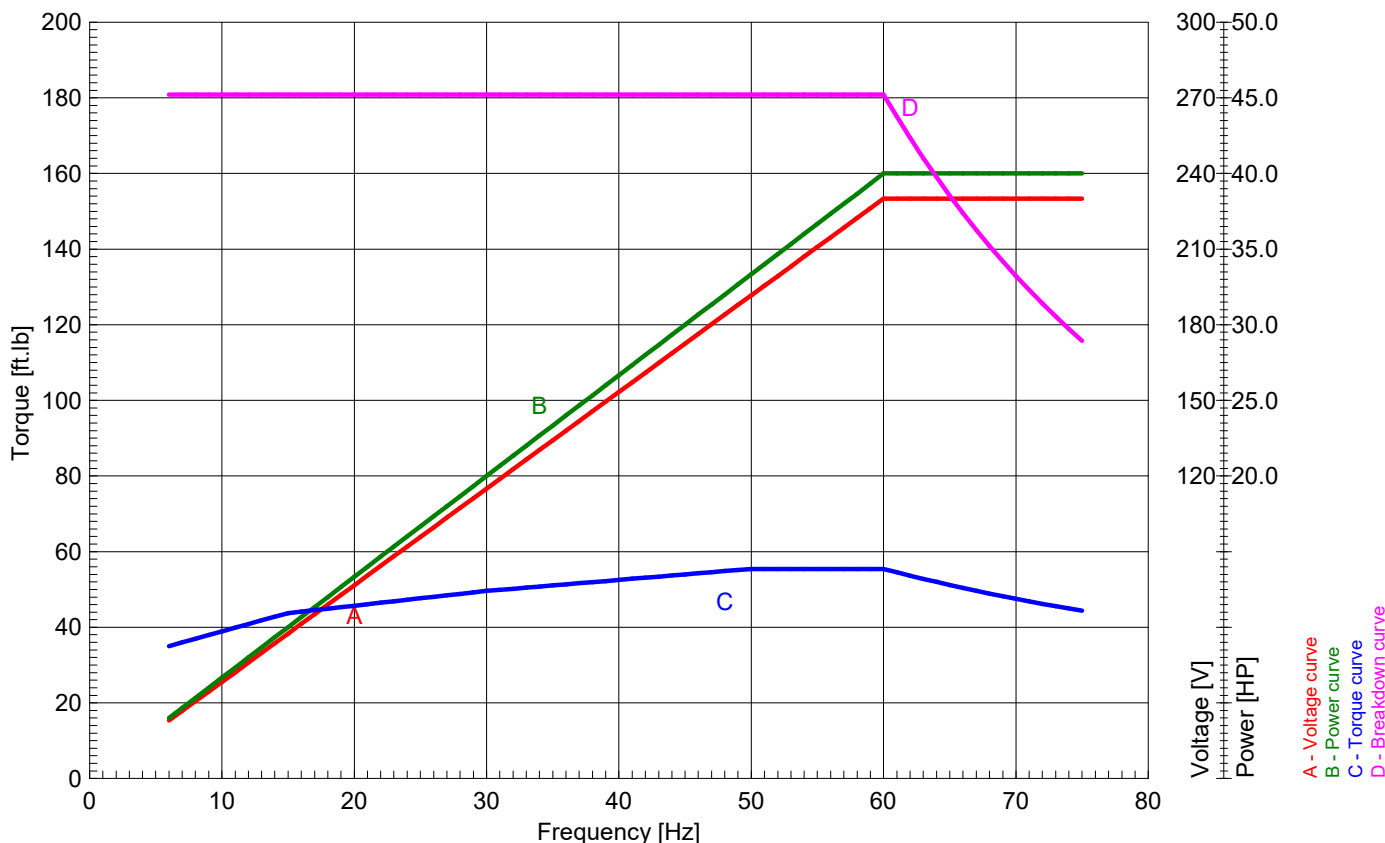
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LRC (p.u.) : 8.6	Duty cycle : Cont.(S1)
Rated torque : 59.1 ft.lb	Insulation class : F
Locked rotor torque : 310 %	Service factor : 1.25
Breakdown torque : 310 %	Temperature rise : 80 K
Rated speed : 3550 rpm	Design : A
	Maximum peak voltage phase-to-phase <= 2000 V
	dV/dt <= 6500 V/μs
	Rise time >= 0,1 μs

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