# DATA SHEET

Three Phase Induction Motor - Squirrel Cage

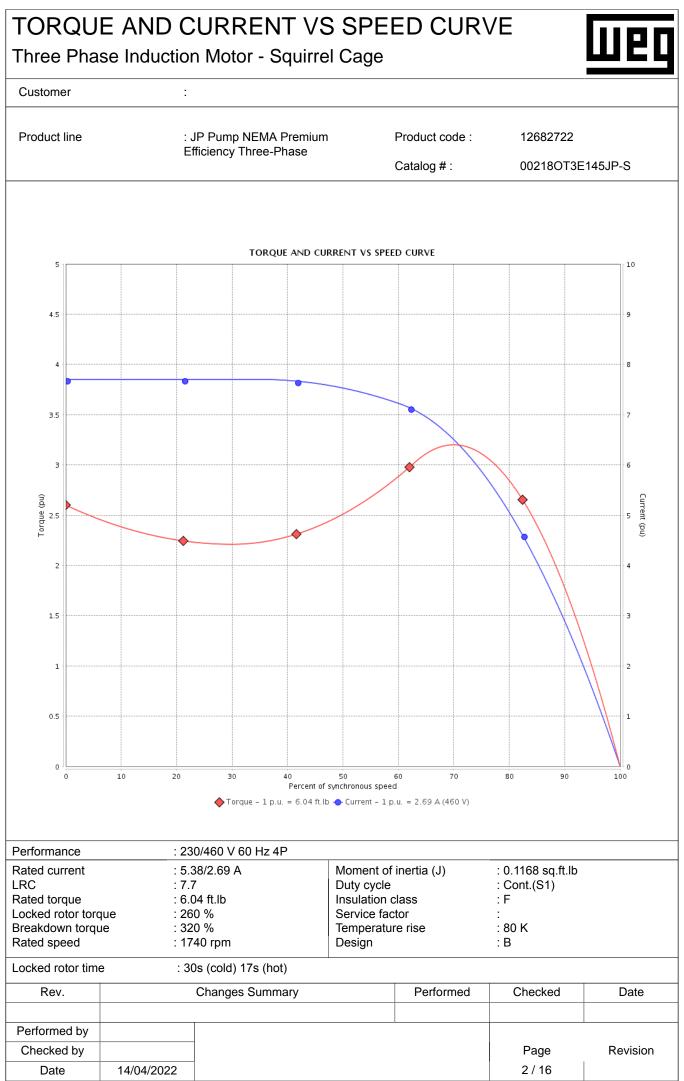
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#### Customer

Product line		: JP Pump NEMA Premiun Efficiency Three-Phase	n Product code :	12682722	
		LINGENCY THEE-FHASE	Catalog # :	00218OT3E145JP-S	
Frame		: 143/5JP	Cooling method	: IC01 - ODP	
Insulation class		: F	Mounting	: F-1	
Duty cycle		: Cont.(S1)	Rotation <sup>1</sup>	: Both (CW and CCW)	
Ambient tempera	ature	: -20°C to +40°C	Starting method	: Direct On Line	
Altitude		: 1000 m.a.s.l.	Approx. weight <sup>3</sup>	: 42.3 lb	
Design		: B	Moment of inertia (J)	: 0.1168 sq.ft.lb	
U U					
Output [HP]		2	2	2	
Poles		4	4	4	
Frequency [Hz]		60	50	50	
Rated voltage [V]		230/460	190/380	220/415	
Rated current [A]		5.38/2.69	6.52/3.26	5.90/3.13	
L. R. Amperes [A]		41.4/20.7	36.5/18.3	36.6/19.4	
LRC [A]		7.7x(Code K)	5.6x(Code G)	6.2x(Code H)	
No load current [A	]	2.75/1.38	2.70/1.35	2.82/1.49	
Rated speed [RPN		1740	1410	1420	
Slip [%]	-	3.33	6.00	5.33	
Rated torque [ft.lb]	1	6.04	7.45	7.40	
Locked rotor torqu		260	200	220	
Breakdown torque		320	200	260	
Service factor	· [ /v]	520	1.00	1.00	
		00 K			
Temperature rise		80 K	105 K	80 K	
Locked rotor time		30s (cold) 17s (hot)	0s (cold) 0s (hot)	Os (cold) Os (hot)	
Noise level <sup>2</sup>	0=0/	52.0 dB(A)	49.0 dB(A)	49.0 dB(A)	
	25%	85.2	88.2	86.4	
Efficiency (%)	50%	85.5	85.9	85.2	
	75%	86.5	85.0	85.2	
	100%	86.5	82.2	83.4	
	25%	0.36	0.42	0.38	
Power Factor	50%	0.61	0.69	0.64	
Power Factor	75%	0.74	0.80	0.77	
	100%	0.81	0.85	0.83	
	1	Drive end Non drive e	nd Foundation loads		
Bearing type		: 6206 ZZ 6203 Z		: 146 lb	
Sealing		: Without Withou		: 188 lb	
Sealing				. 100 IU	
Lubrication inter-		Bearing Seal Bearing S	cai		
Lubrication interv					
Lubricant amoun	it.	· · · ·			
Lubricant type		: Mobil Polyrex EM			
Notes USABLE @208V	′ 5.95A SF 1.	00 SFA 5.95A			
must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate w manufacturing pro-	ed. notor from the 1m and with t weight subjec ocess.	ncel the previous one, which e shaft end. olerance of +3dB(A). et to changes after		s based on tests with sinusoidal he tolerances stipulated in NEMA	
must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate	ed. notor from the 1m and with t weight subjec ocess.	shaft end. olerance of +3dB(A).	power supply, subject to the		
must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro-	ed. notor from the 1m and with t weight subjec ocess.	shaft end. olerance of +3dB(A).	power supply, subject to the		
must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful	ed. notor from the 1m and with t weight subjec ocess.	e shaft end. olerance of +3dB(A). et to changes after	power supply, subject to the MG-1.	he tolerances stipulated in NEMA	
must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful Rev. Performed by	ed. notor from the 1m and with t weight subjec ocess.	e shaft end. olerance of +3dB(A). et to changes after	power supply, subject to the MG-1.	he tolerances stipulated in NEMA Checked Date	
must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful Rev.	ed. notor from the 1m and with t weight subjec ocess.	e shaft end. olerance of +3dB(A). et to changes after Changes Summary	power supply, subject to the MG-1.	he tolerances stipulated in NEMA Checked Date	

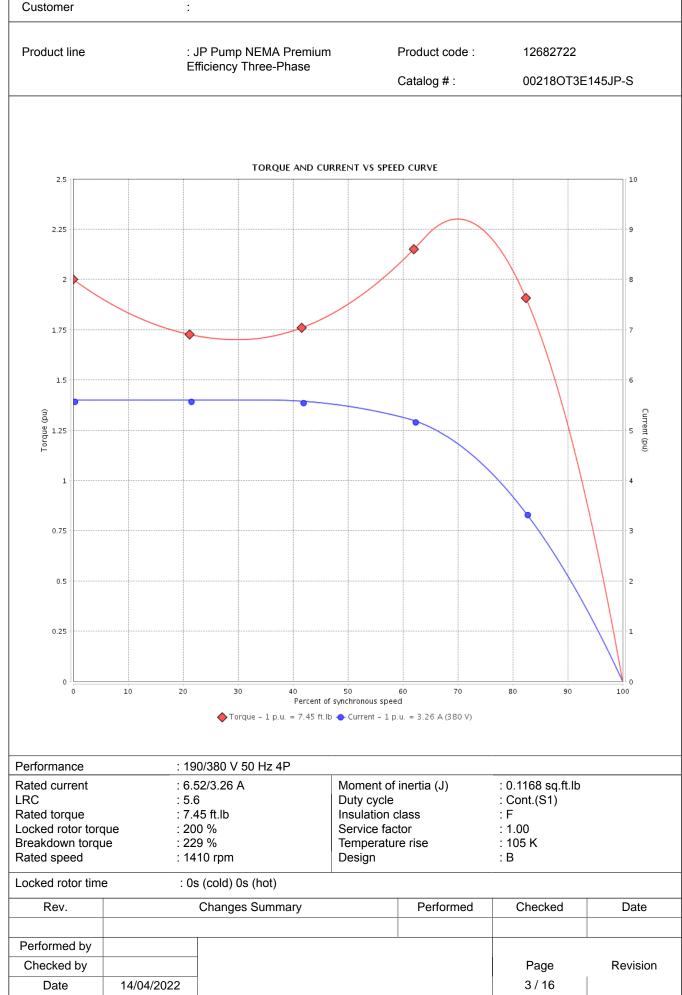
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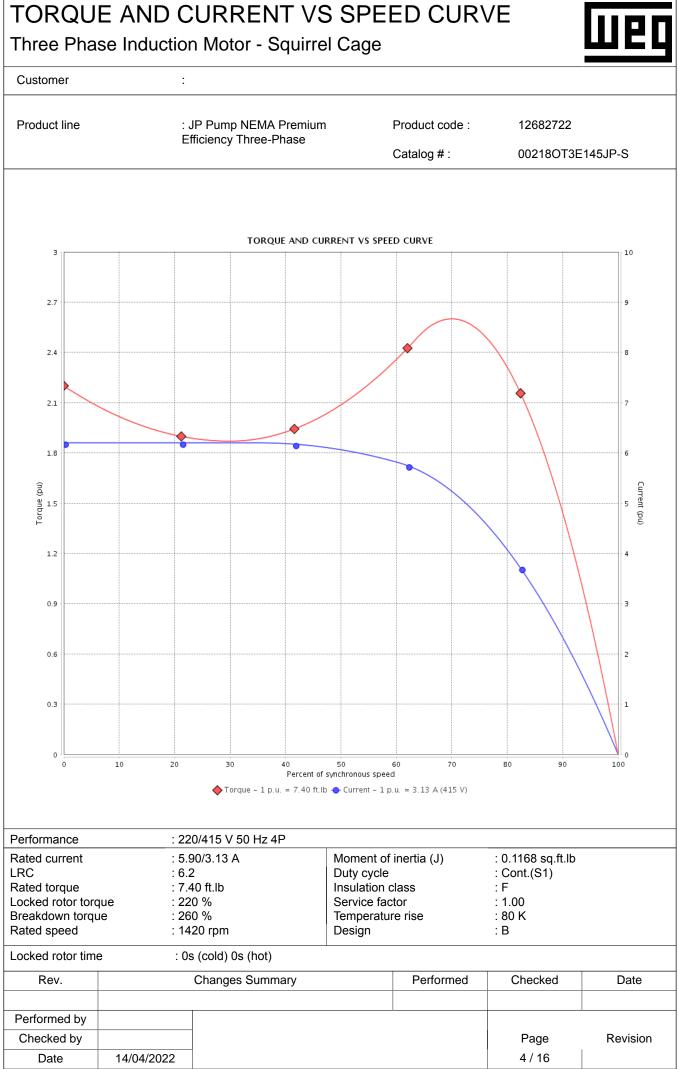
## TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

#### Customer



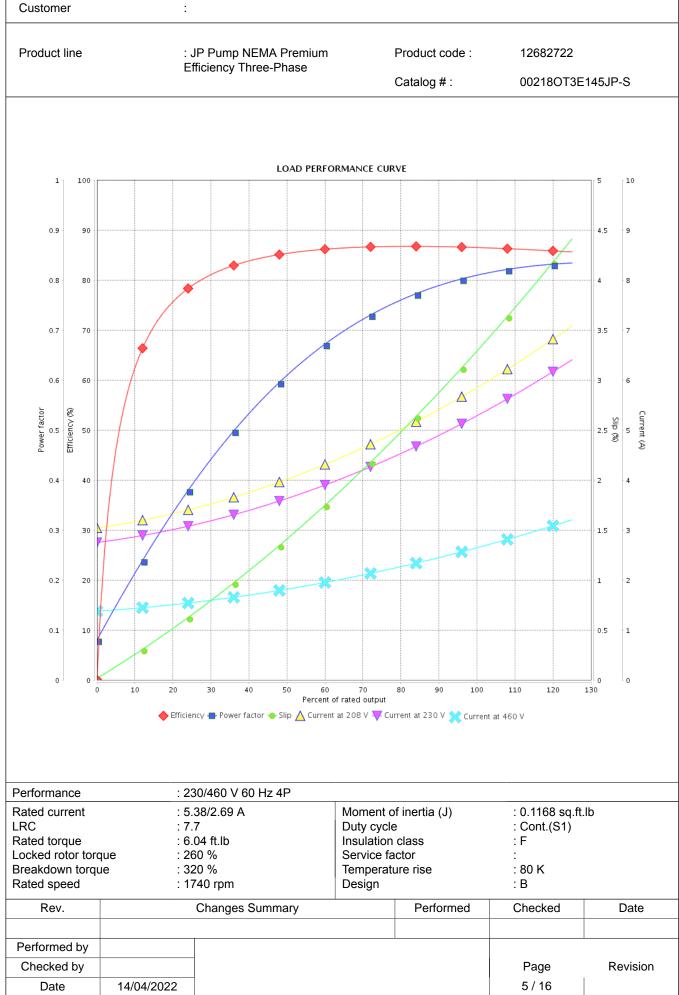
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# LOAD PERFORMANCE CURVE

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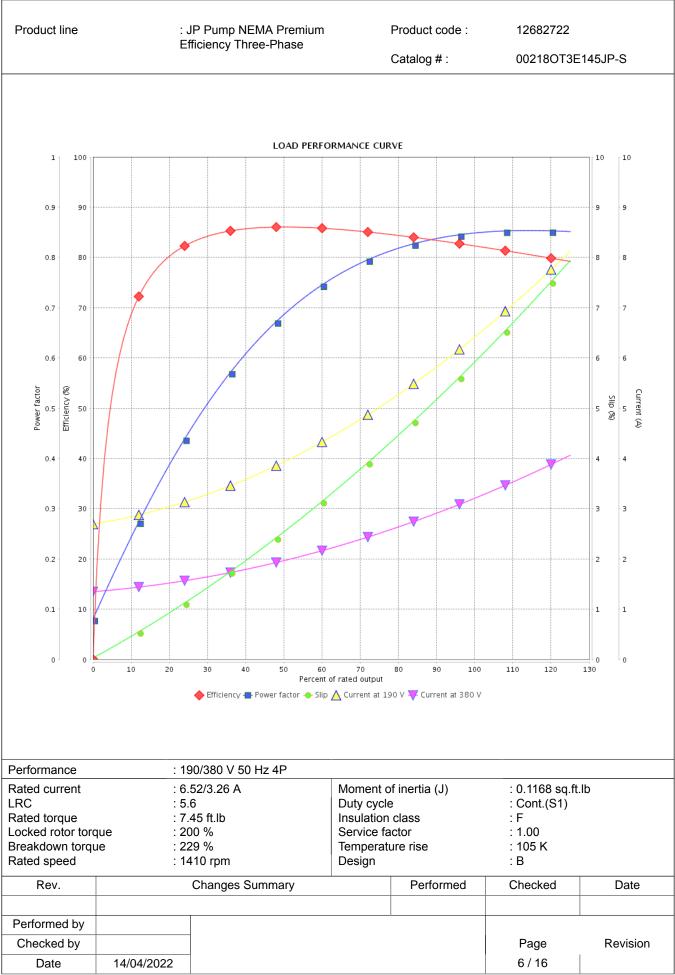
## LOAD PERFORMANCE CURVE

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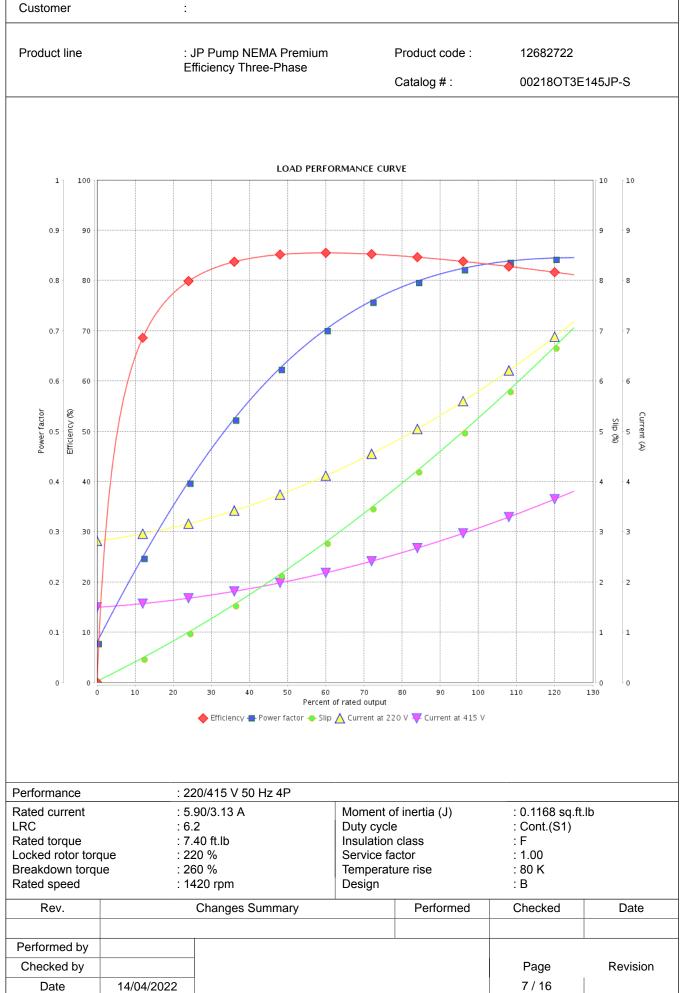
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# LOAD PERFORMANCE CURVE

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# THERMAL LIMIT CURVE

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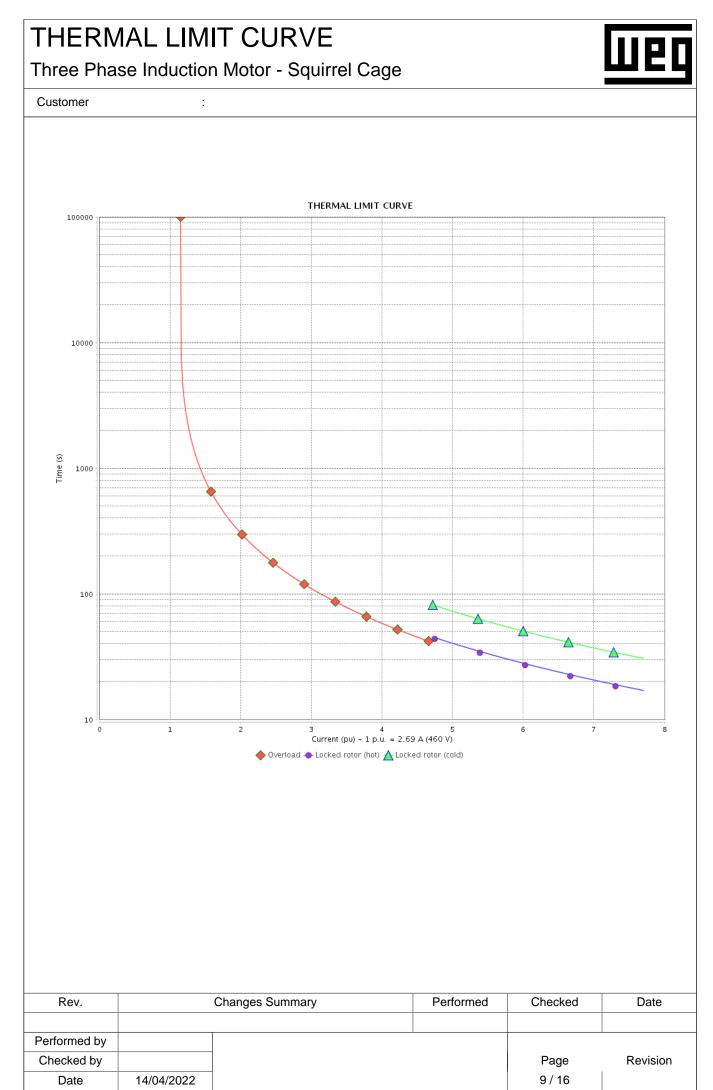


Customer

Product line	: c Ef	JP Pump NEMA Premium fficiency Three-Phase		Product code :	12682722	
				Catalog # :	00218OT3E	145JP-S
Performance	: 23	30/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 7. : 6. que : 26 ue : 32	38/2.69 A 7 04 ft.lb 60 % 20 % 740 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.1168 sq.ft. : Cont.(S1) : F : : 80 K : B	lb
Heating constan	t					
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				8 / 16	

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 8 / 16

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# THERMAL LIMIT CURVE

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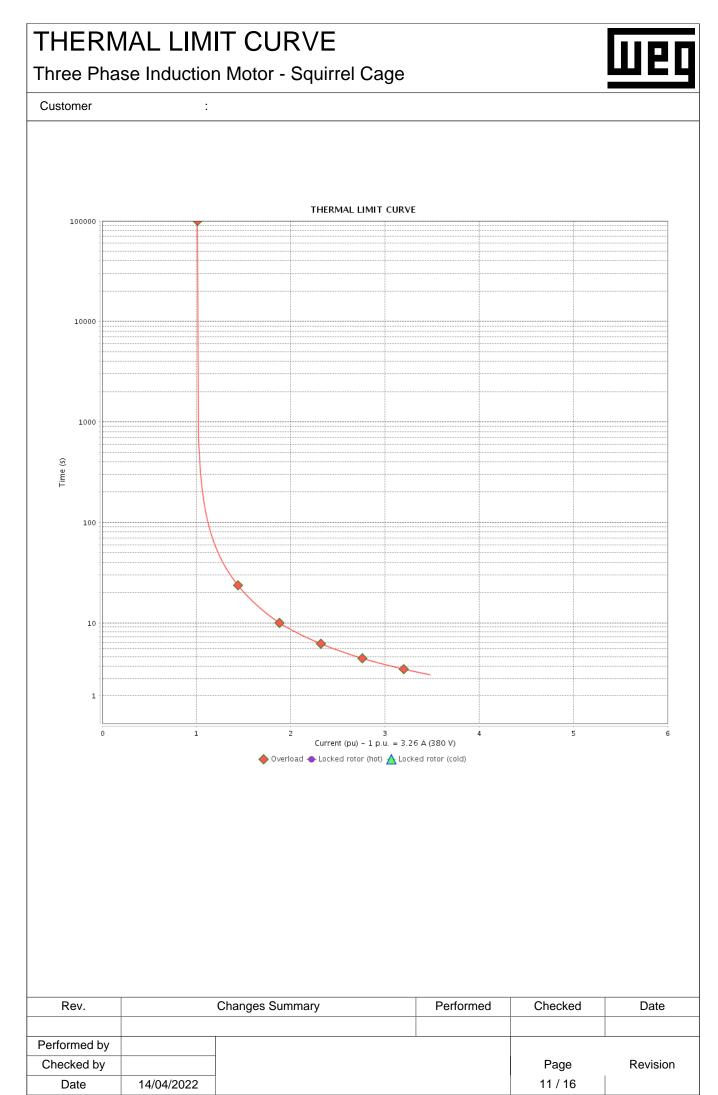


Customer

Product line	:.	: JP Pump NEMA Premium		Product code :	12682722		
	Ef	fficiency Three-Phase		Catalog # :	00218OT3E	145JP-S	
Performance	: 19	90/380 V 50 Hz 4P					
Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	: 5. : 7. jue : 20 ie : 22	52/3.26 A 6 45 ft.lb 00 % 29 % 410 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.1168 sq.ft. : Cont.(S1) : F : 1.00 : 105 K : B	lb	
Heating constant							
Cooling constant		Changes Current			Charles	Detr	
Rev.		Changes Summary		Performed	Checked	Date	
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Checked by					Page	Revision	
Date	14/04/2022				10 / 16		

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 10 / 16

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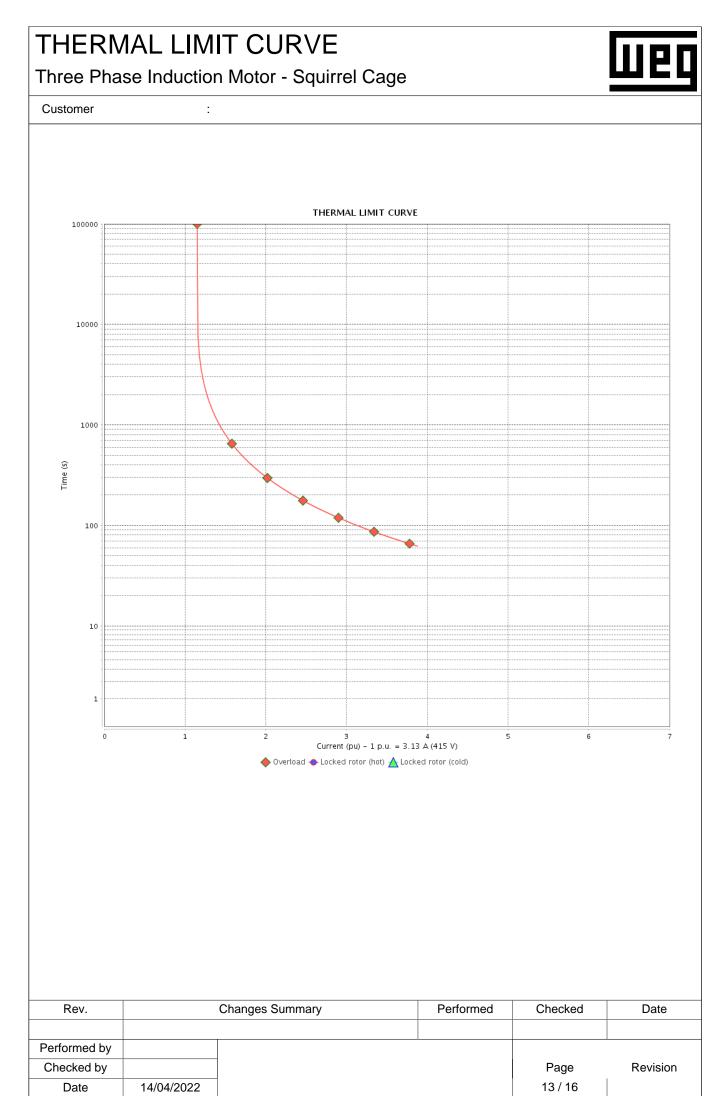


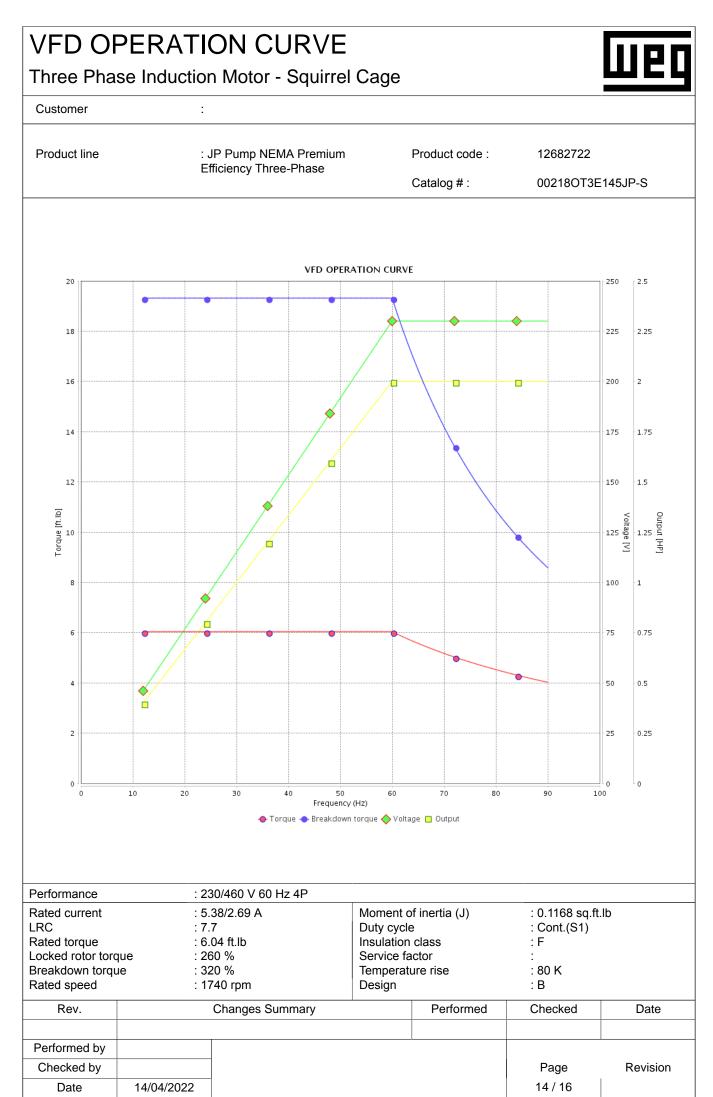
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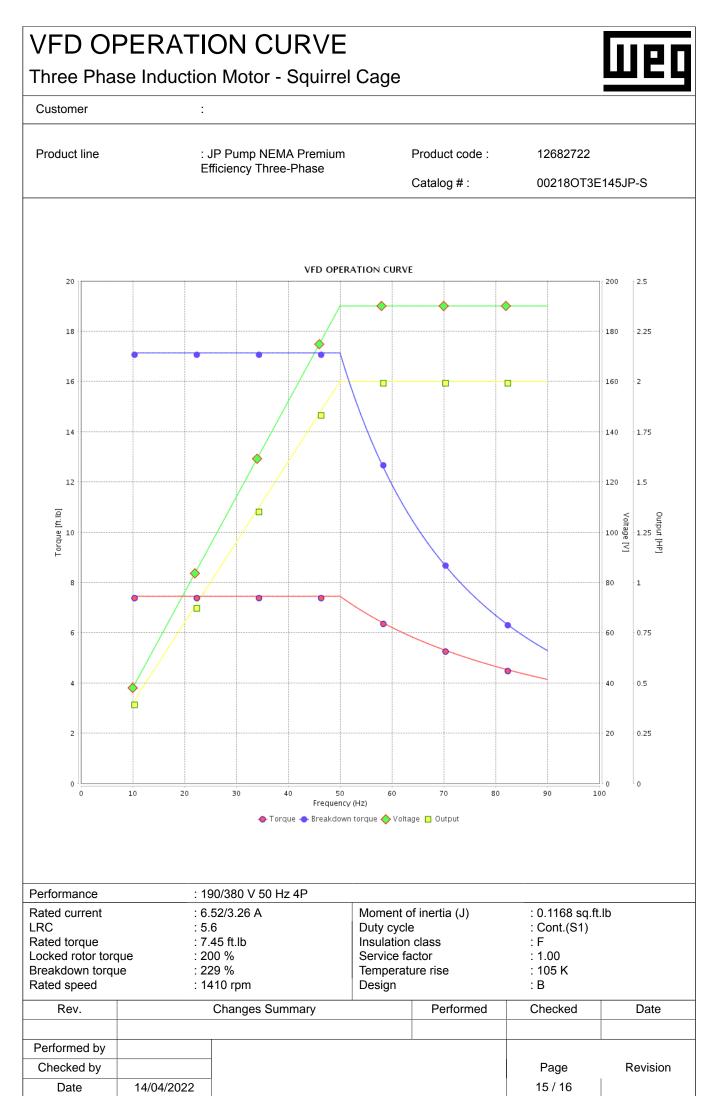
Product line	: c Ff	JP Pump NEMA Premium fficiency Three-Phase		Product code :	12682722	
				Catalog # :	00218OT3E	145JP-S
Performance	: 22	20/415 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu	: 5. : 6. : 7. que : 22	90/3.13 A	Moment of Duty cycle Insulation Service fa Temperate	class ctor	: 0.1168 sq.ft. : Cont.(S1) : F : 1.00 : 80 K	lb
Rated speed		120 rpm	Design		: B	
Heating constan						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				12 / 16	

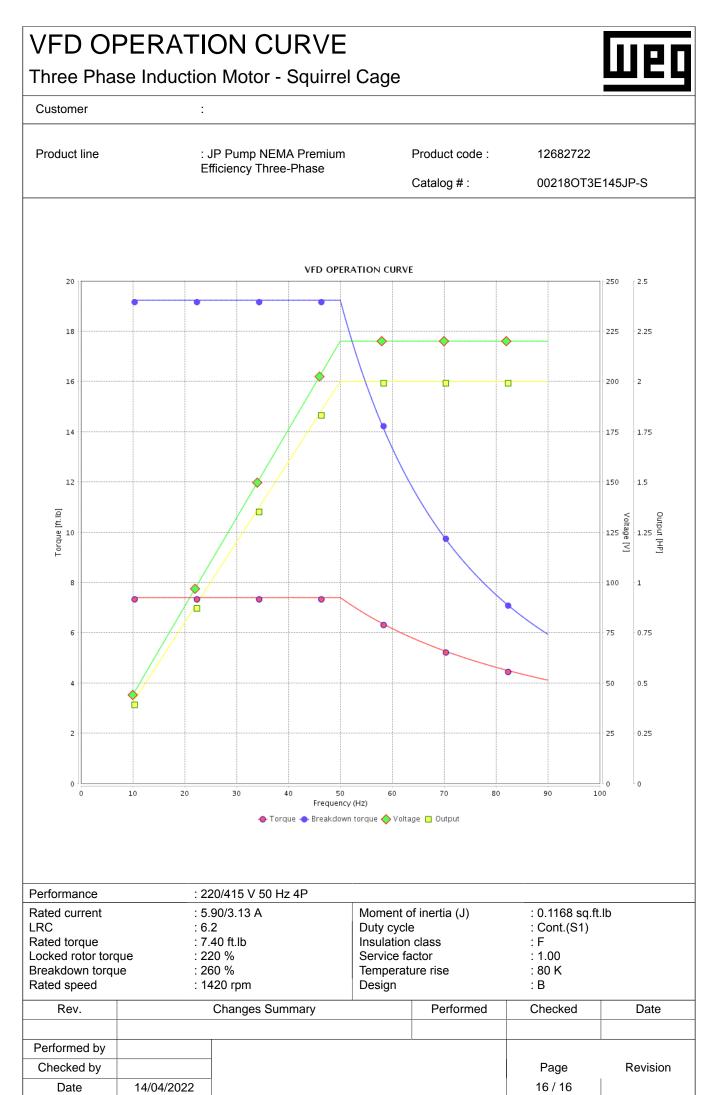
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 12 / 16

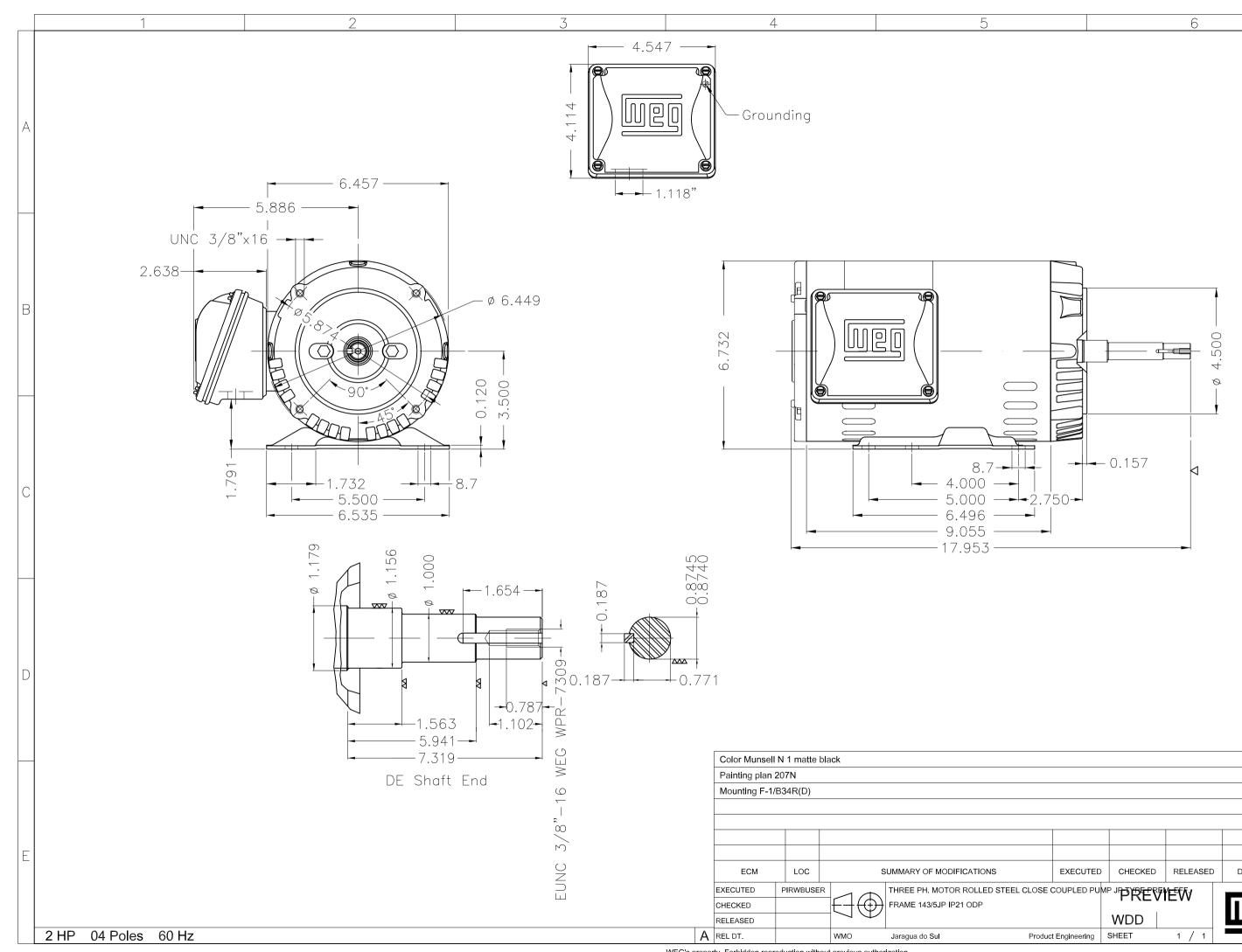
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						Dimensions in inches
ONS	EXECUTED	CHECKED	RELEASED	DATE	VER	
LED STEEL CLOSE (	COUPLED PU	<sup>,</sup> PREV	ľÉŴ			
		WDD		ШВ		A3
Produc	t Engineering	SHEET	1 / 1			XME

MARE IN EACH IN THE AND THE AND THE AND	PH3 FFR 143/5JP HP(kW) 2.0(1.5) Hz 60 V 230/460 AFRPM 1740 A 5.387 69 DITY CONT	6.19/3.09         CODE           15         INS CL F ΔT 80K   ΔMB 40°           .81         INS CL F ΔT 80K   ΔMB 40°	ALI TUUU M.a.s.r. IUSABLE @ 2009 3:393 5F1.30 ALTERNATE RATING: 2.0HP 3042 190-220/380-415V SF1.00 A.S.F.193.26 3.07A 1410RPM EFF 87.2% (IE1) IEC 8003-1		Inverter duty For 50Hz use on VPWM 1000:1 VT, 5:1 CT DE: 6206-ZZ ODE: 6203-ZZ MOBIL POLYREX EM	NING: Motor must be grounded in according to a contract of the codes of the prevent serious electrical to be a before servicing unit. It ISSEMENT: Le moteur doit être mis à l codes électriques locant et nationaux at rique grave. Déconnectes l'alimentation
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