# DATA SHEET

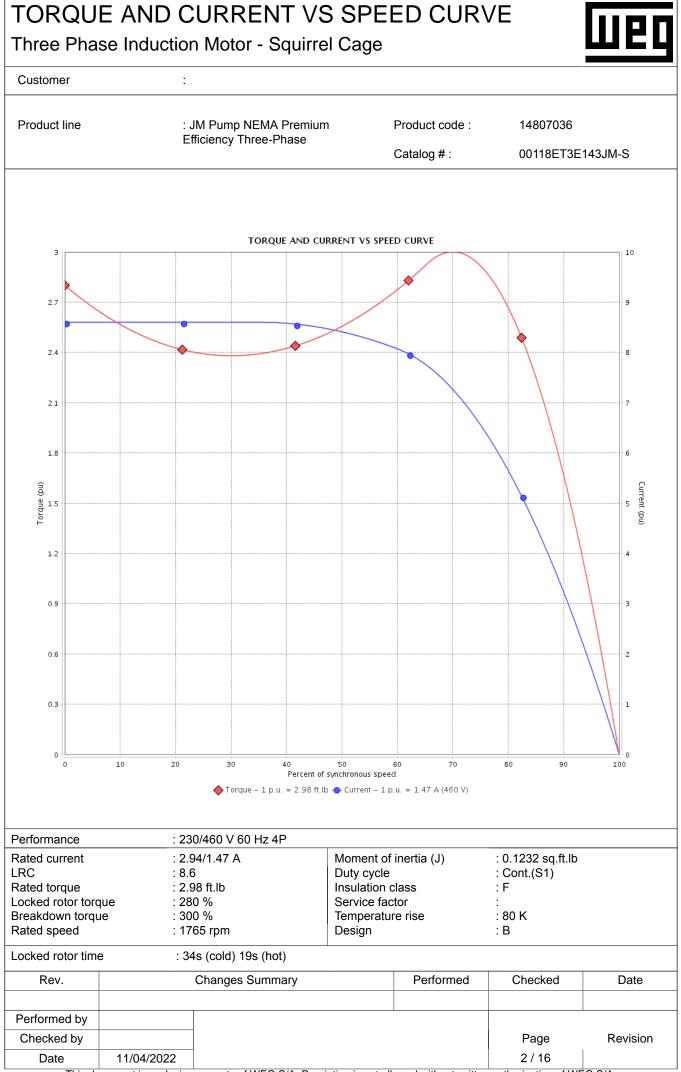
Three Phase Induction Motor - Squirrel Cage

:



#### Customer

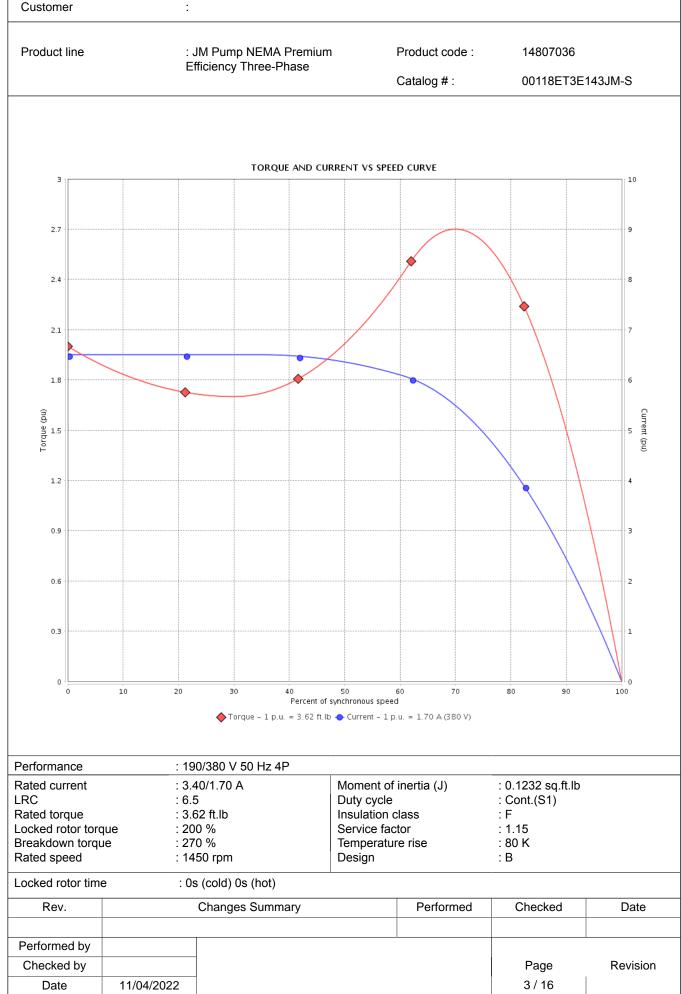
Product line		: JM Pump NEMA Premium Efficiency Three-Phase	Product code :	14807036	
		LINGENCY THEE-FIIdSE	Catalog # :	00118ET3E143JM-S	
Frame		: 143/5JM	Cooling method	: IC411 - TEFC	
Insulation class		: F	Mounting	: F-1	
Duty cycle		: Cont.(S1)	Rotation	: Both (CW and CCW)	
Ambient tempera	ature	: -20°C to +40°C	Starting method	: Direct On Line	
Altitude		: 1000 m.a.s.l.	Approx. weight <sup>3</sup>	: 40.6 lb	
Protection degre	е	: IP55	Moment of inertia (J)	: 0.1232 sq.ft.lb	
Design		: B			
Output [HP]		1	1	1	
Poles		4	4	4	
Frequency [Hz]		60	50	50	
Rated voltage [V]		230/460	190/380	220/415	
Rated current [A]		2.94/1.47	3.40/1.70	3.09/1.64	
. R. Amperes [A]		25.3/12.6	22.1/11.0	22.0/11.6	
_RC [A]		8.6x(Code M)	6.5x(Code J)	7.1x(Code K)	
No load current [A	1	1.78/0.890	1.76/0.879	1.77/0.938	
Rated speed [RPN	/I]	1765	1450	1455	
Slip [%]		1.94	3.33	3.00	
Rated torque [ft.lb]		2.98	3.62	3.61	
Locked rotor torqu		280	200	220	
Breakdown torque	[%]	300	270	300	
Service factor			1.15	1.15	
Temperature rise		80 K	80 K	80 K	
Locked rotor time		34s (cold) 19s (hot)	Os (cold) Os (hot)	0s (cold) 0s (hot)	
Noise level <sup>2</sup>		52.0 dB(A)	49.0 dB(A)	49.0 dB(A)	
	25%	81.0	82.5	81.2	
	50%	82.5	82.2	81.5	
Efficiency (%)	75%	84.0	83.7	83.6	
	100%				
		85.5	82.9	83.5	
	25%	0.30	0.36	0.33	
Power Factor	50%	0.52	0.62	0.58	
	75%	0.66	0.74	0.71	
	100%	0.75	0.81	0.79	
		Drive end Non drive en			
Bearing type		: 6206 ZZ 6203 ZZ		: 74 lb	
Sealing		: V'Ring Without		: 114 lb	
		Bearing Se	al		
Lubrication interv	/al	:			
Lubricant amoun	t	:			
Lubricant type		: Mobil Polyrex EM			
Notes USABLE @208V	3.25A SF 1.1	UU SFA 3.25A			
USABLE @208V This revision repla must be eliminate (1) Looking the m	aces and can d. otor from the	ncel the previous one, which		pased on tests with sinusoidal tolerances stipulated in NEMA	
USABLE @208V This revision repla must be eliminate (1) Looking the m (2) Measured at 1	aces and can ed. lotor from the lm and with to veight subjec pocess.	ncel the previous one, which	power supply, subject to the		
USABLE @208V This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro	aces and can ed. lotor from the lm and with to veight subjec pocess.	ncel the previous one, which e shaft end. olerance of +3dB(A).	power supply, subject to the		
USABLE @208V This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful	aces and can ed. lotor from the lm and with to veight subjec pocess.	ncel the previous one, which e shaft end. olerance of +3dB(A). et to changes after	power supply, subject to the MG-1.	tolerances stipulated in NEMA	
USABLE @208V This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful	aces and can ed. lotor from the lm and with to veight subjec pocess.	ncel the previous one, which e shaft end. olerance of +3dB(A). et to changes after	power supply, subject to the MG-1.	tolerances stipulated in NEMA	
USABLE @208V This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful Rev.	aces and can ed. lotor from the lm and with to veight subjec pocess.	ncel the previous one, which e shaft end. olerance of +3dB(A). et to changes after	power supply, subject to the MG-1.	tolerances stipulated in NEMA	



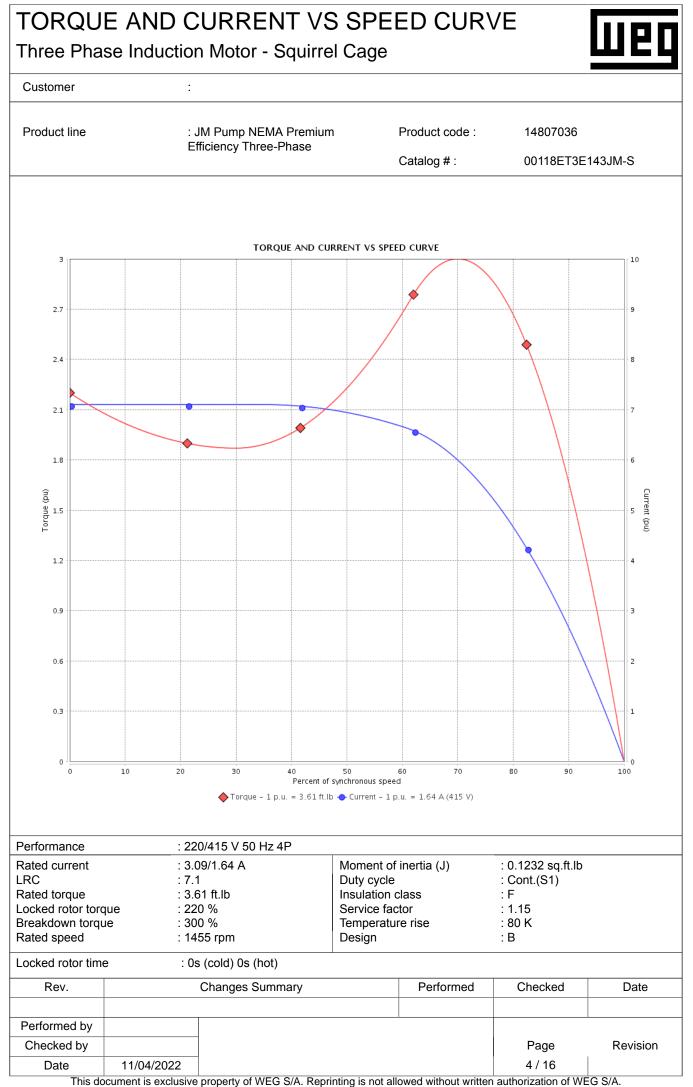
### TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

### Customer



This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.

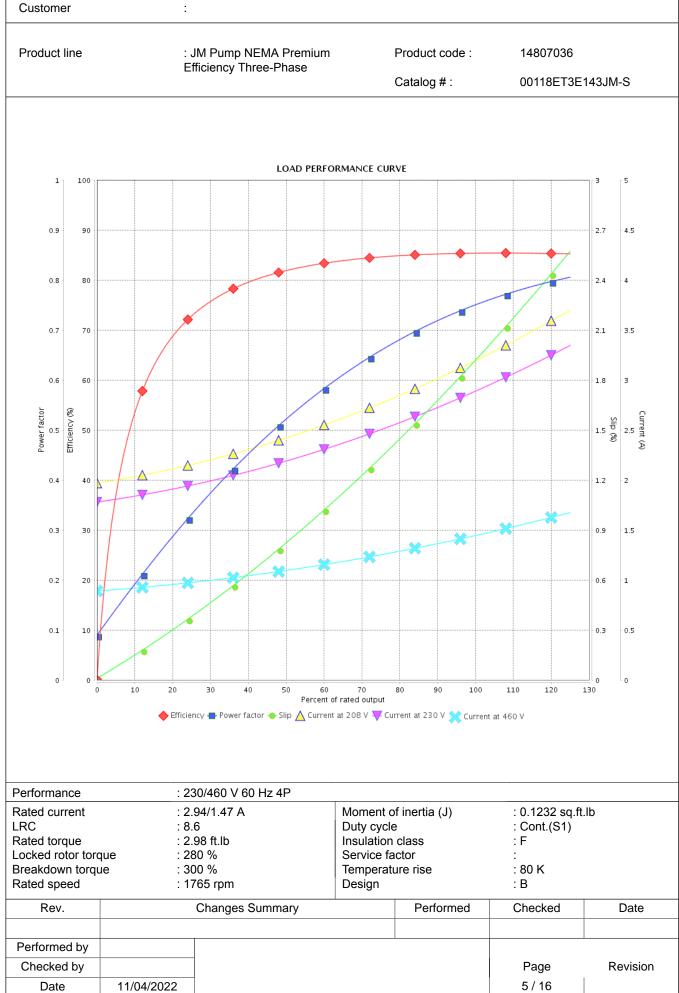


Subject to change without notice

# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

### Customer



This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.

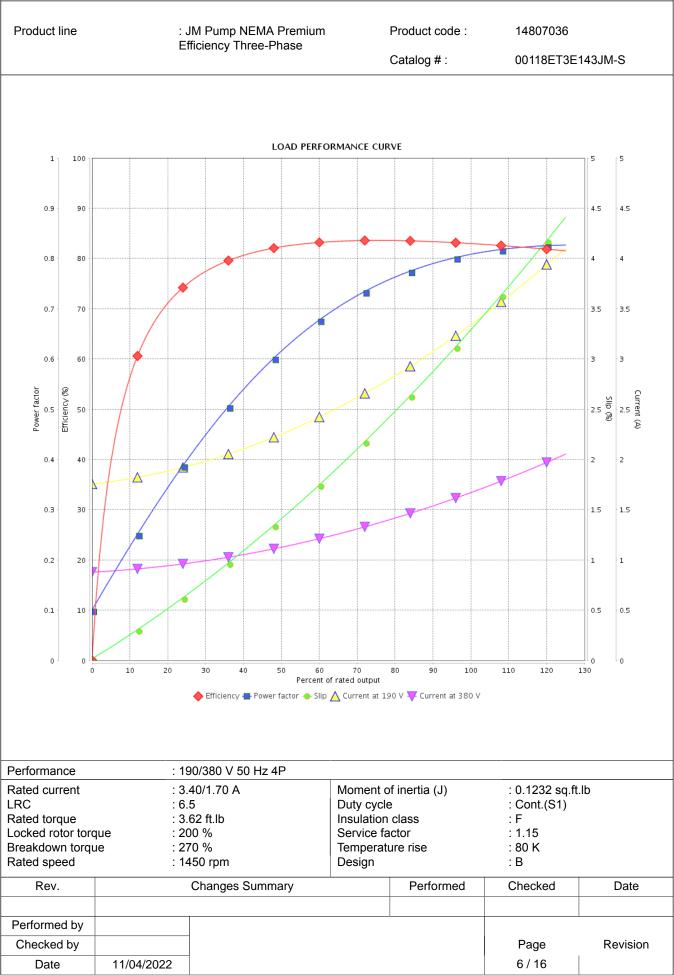
## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer

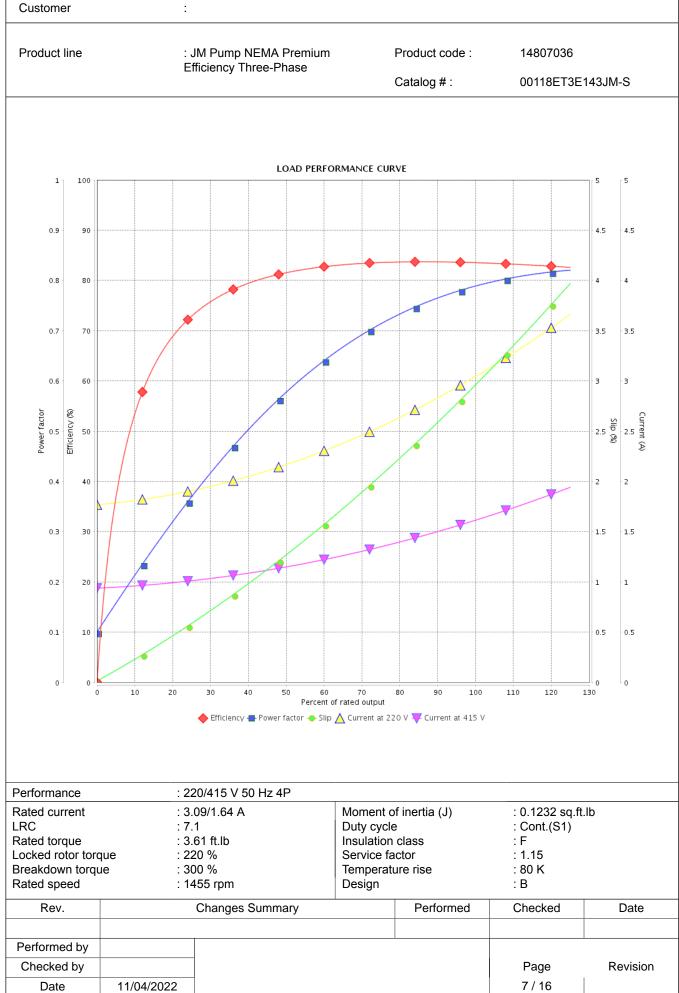
:



# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

### Customer



This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.

# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

:

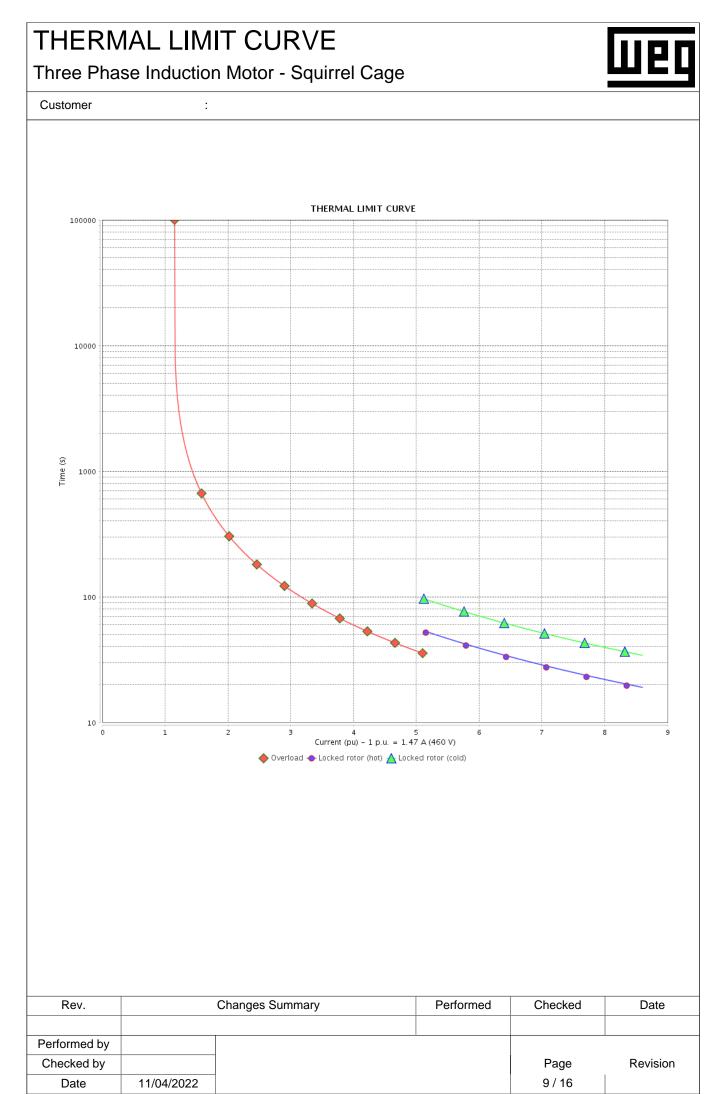


Customer

Product line	: c E1	JM Pump NEMA Premium fficiency Three-Phase		Product code : Catalog # :	14807036 00118ET3E1	42 IM C
				Catalog # .	00110E13E1	433101-3
D. (						
Performance		30/460 V 60 Hz 4P 94/1.47 A	Moment	finantia (1)	. 0 4000 61	h
Rated current LRC Rated torque Locked rotor torc Breakdown torqu	: 8. : 2. jue : 28 ie : 30	6 98 ft.lb 30 % 00 %	Duty cycle Insulation Service fa Temperatu	class ctor	: 0.1232 sq.ft.l : Cont.(S1) : F : : 80 K	D
Rated speed	: 17	765 rpm	Design		: B	
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by		-				
Checked by		-			Page	Revision
Date	11/04/2022				8 / 16	

 a
 11/04/2022
 8 / 16

 This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.



# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

:

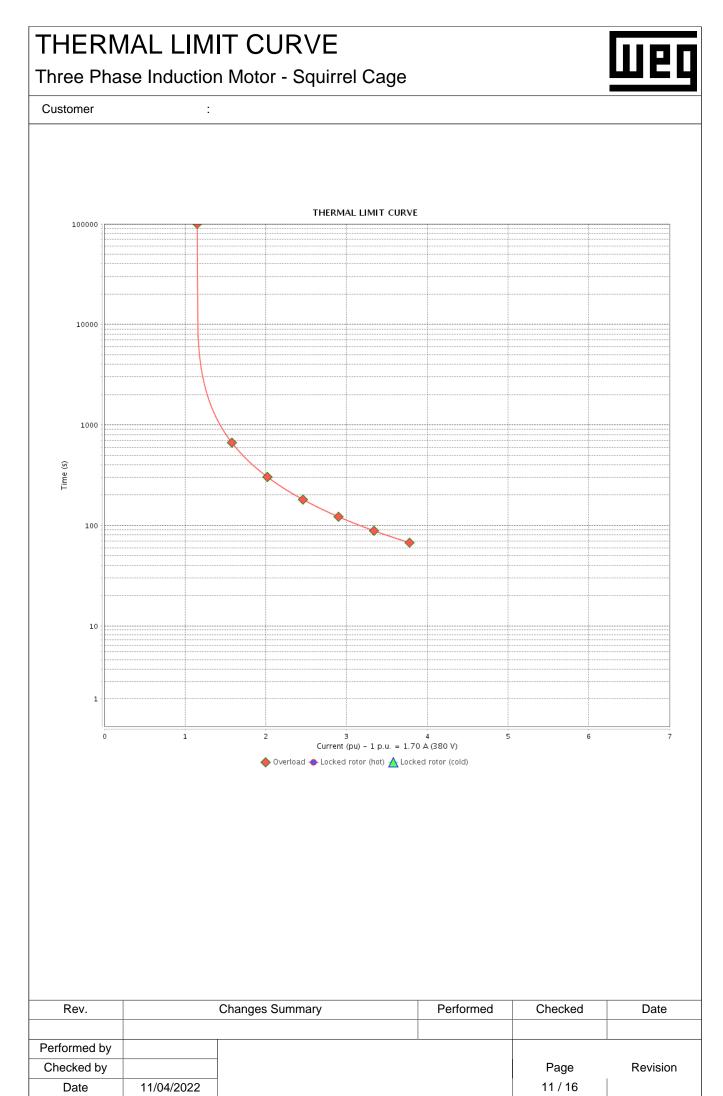


Customer

Product line	: . E1	JM Pump NEMA Premium fficiency Three-Phase		Product code : Catalog # :	14807036 00118ET3E1	43 IM-S
					0011021021	40000 0
Derformance	. 10	00/280 V/ 50 LIT 4D				
Performance Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	: 3. : 6. : 3. jue : 20 ie : 27	90/380 V 50 Hz 4P 40/1.70 A 5 62 ft.lb 00 % 70 % 450 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.1232 sq.ft. : Cont.(S1) : F : 1.15 : 80 K : B	b
		•	- 0			
Heating constant Cooling constant						
Rev.	·	Changes Summary		Performed	Checked	Date
Performed by					I	
Checked by					Page	Revision
Date	11/04/2022				10 / 16	

 11/04/2022
 10 / 16

 This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.



# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

:

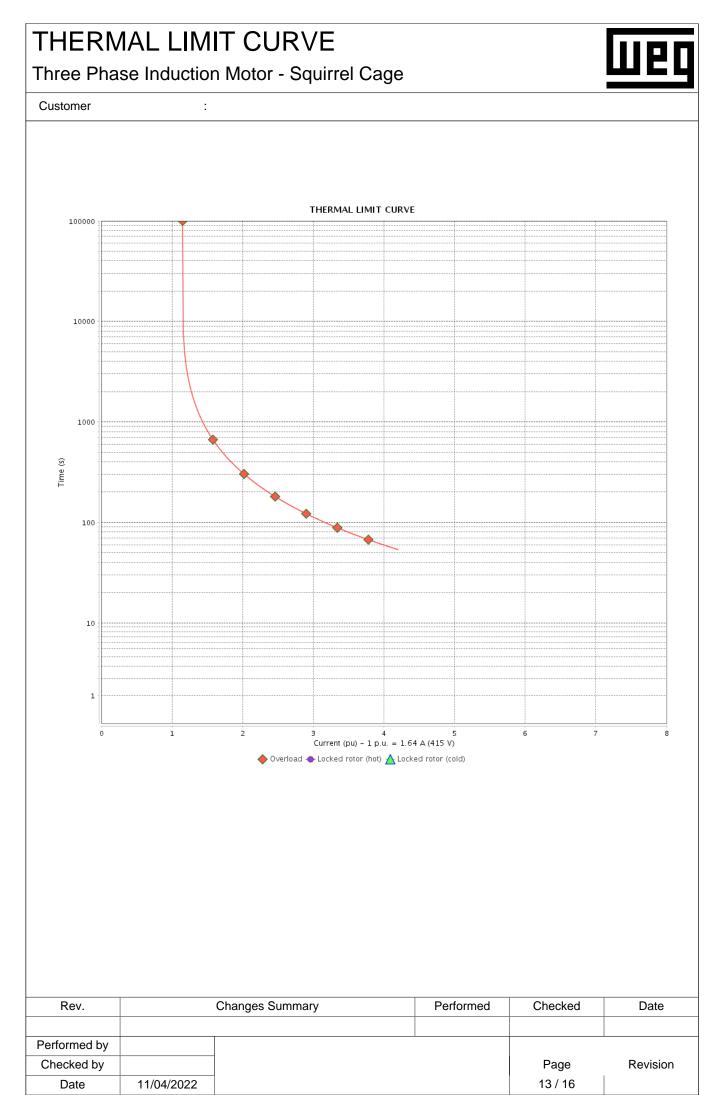


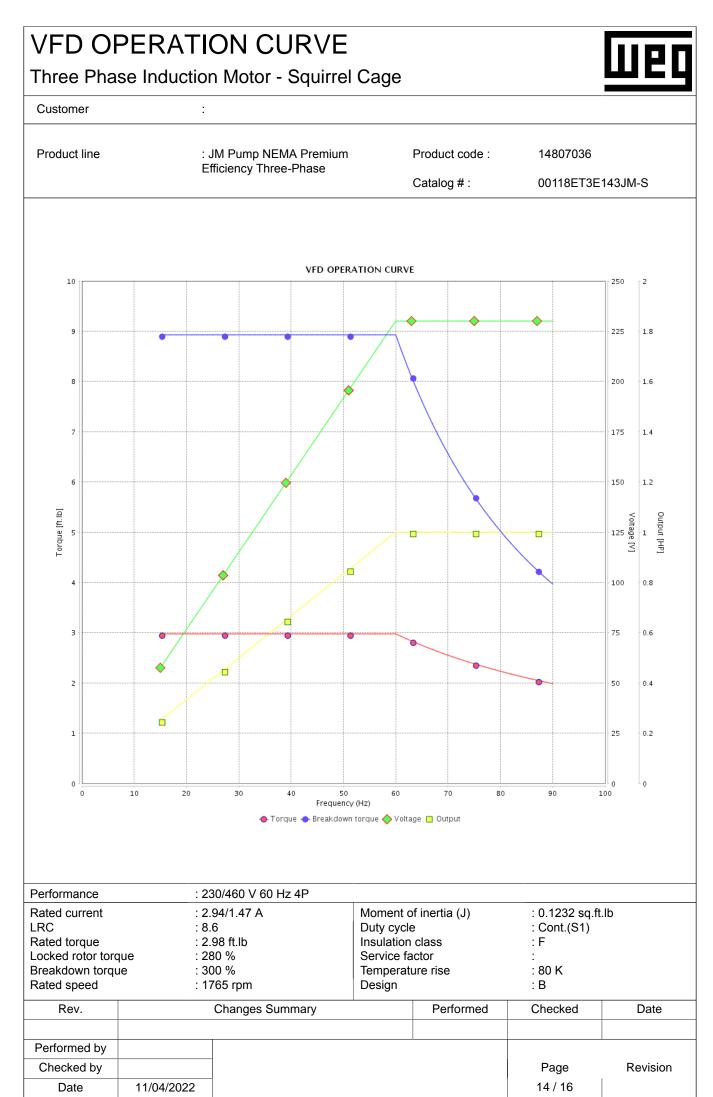
Customer

Product line	: . E1	JM Pump NEMA Premium fficiency Three-Phase		Product code : Catalog # :	14807036 00118ET3E1	43JM-S
Performance	: 22	20/415 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 7. : 3. ue : 22 ie : 30	09/1.64 A 1 61 ft.lb 20 % 00 % 455 rpm	Moment o Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.1232 sq.ft. : Cont.(S1) : F : 1.15 : 80 K : B	b
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	11/04/2022				12 / 16	

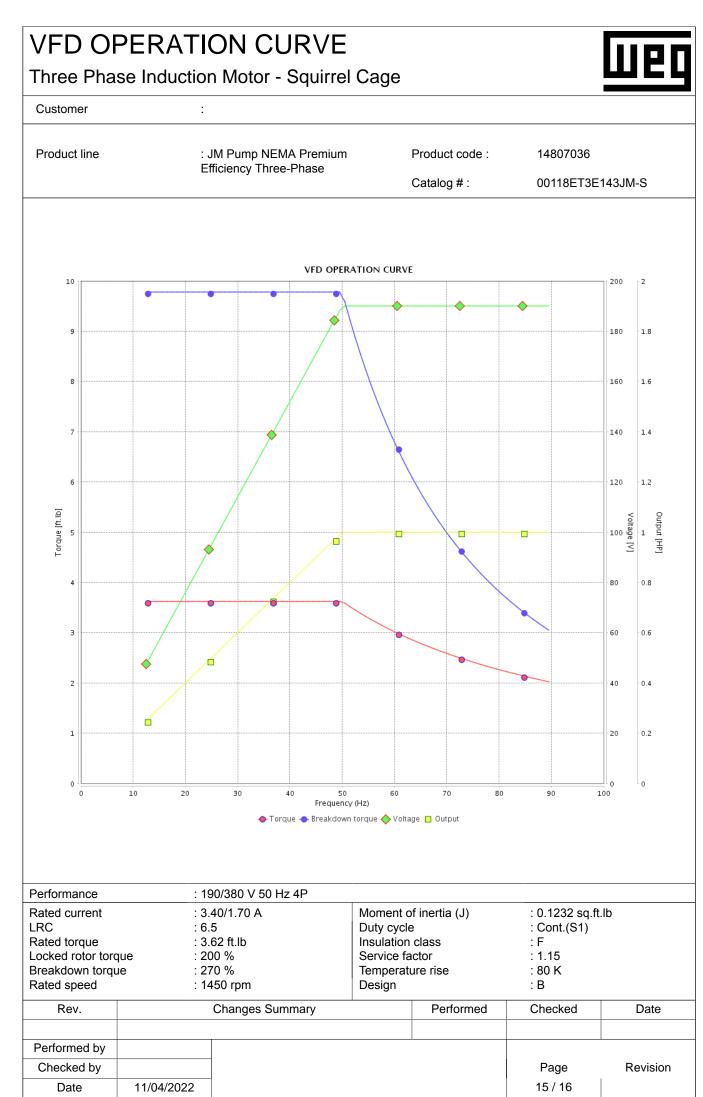
 a
 11/04/2022
 12 / 16

 This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.
 21 / 16 / 12 / 16

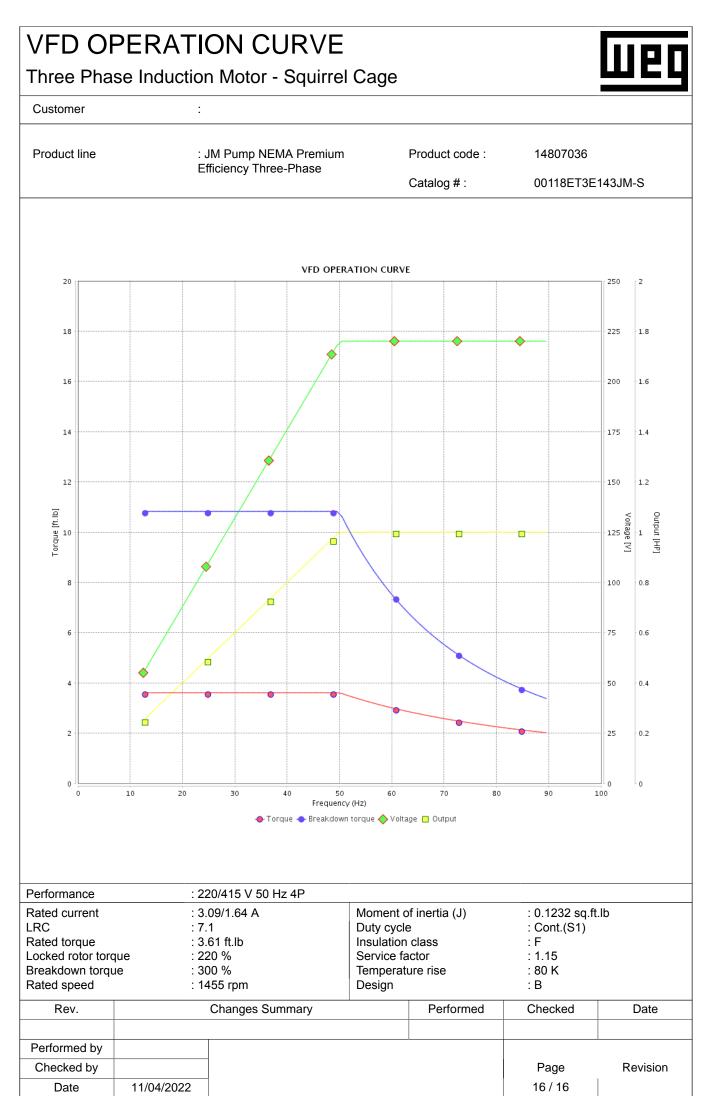




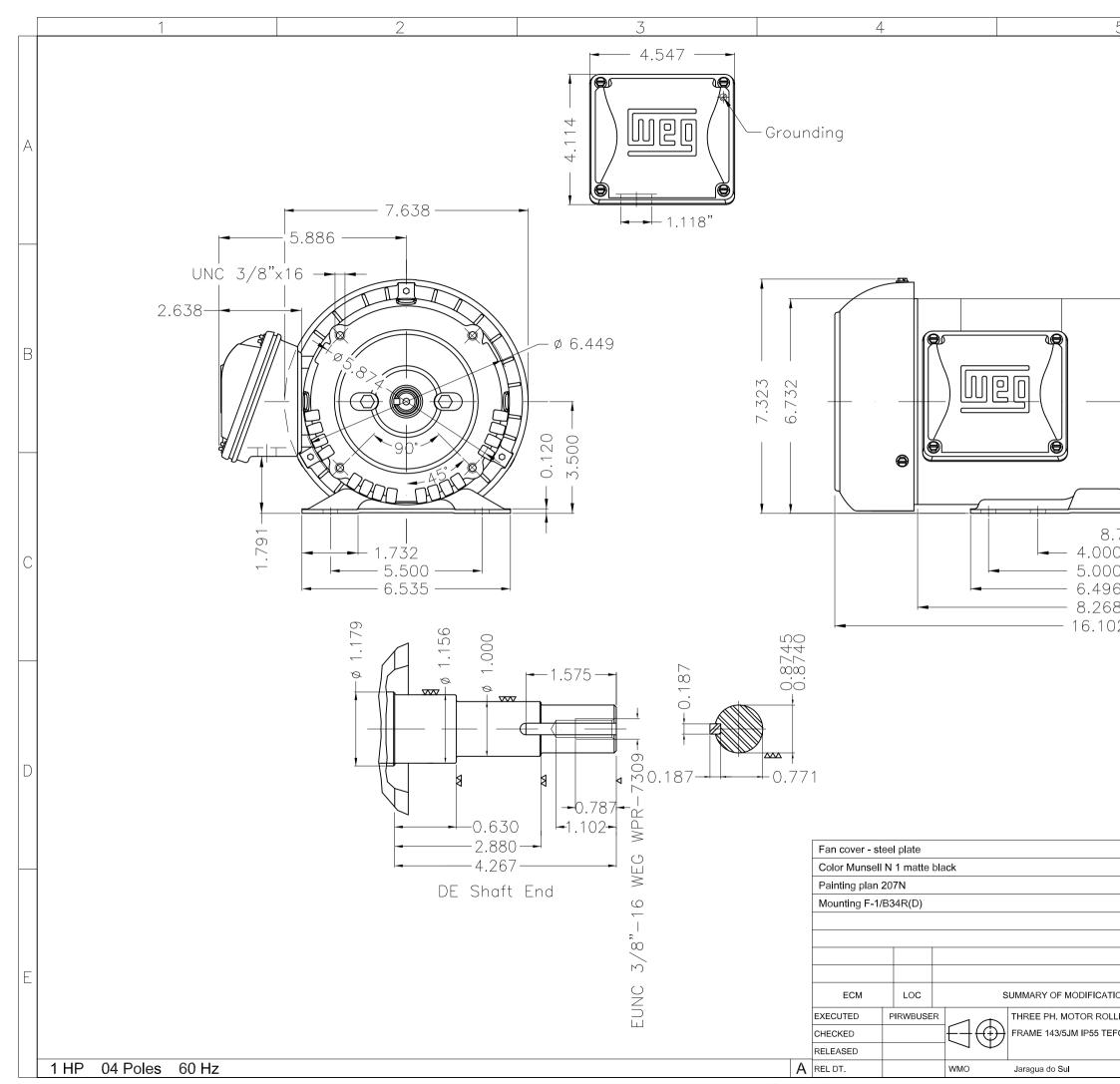
This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.



This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.



This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.



WEG's property. Forbidden reproduction without previous authorization.

C			6		
		0.157			Dimensions in inches
		01/50//55		DATE	
LED STEEL CLOSE	EXECUTED			DATE VER	
FC				шео	A3
Produc	t Engineering	WDD SHEET	1 / 1	يا حد الغاد	XME
	-		·		· ~

COUSTED COUSTED COUS	For 60H2: Class I, Zone 2, IIC Class I, DIV2, Gr. A.B.(.2) - 73 DIV 2 Inverter Duty (5F1.00) GT 2:1/VT 1000:1	0.75 230460 230466 230466 3.3311.69 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75	L L L3 T9-BRK RED RERETHE ROTATION accordance with local accordance with local accordance with local before contract to the second before to the machine.
	MADE IN BRAZIL MAT: 14807036 CC029A W01.TEDICOXON WDPEL 00118ET3E143JM-S 07APR2022 BJN:	FR	YY L1 L2 L3 Y L1 L2 L3 PS-RF ETHE ROLLING MERESCAMME ENT THO LINE WREES TO EXPERIE THE ROLLING MARRING: Meror must be grounded in accordance with local and minimum techcies Loader by prevent evaluation and accordance of the line of the second and the second