## DATA SHEET

:

Three Phase Induction Motor - Squirrel Cage

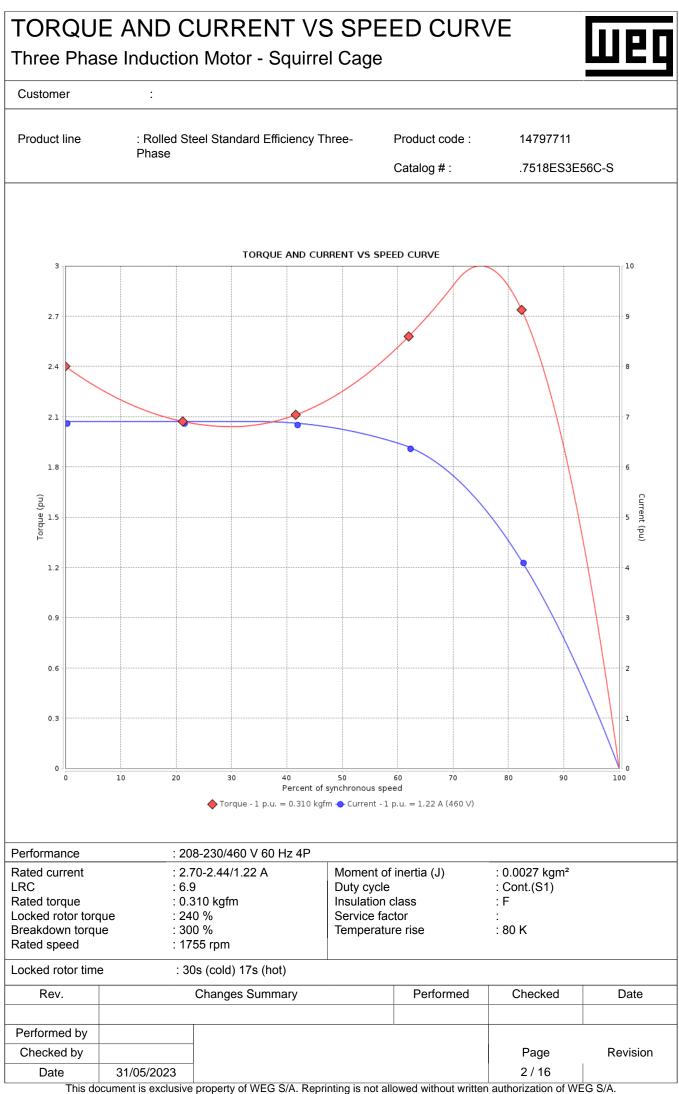


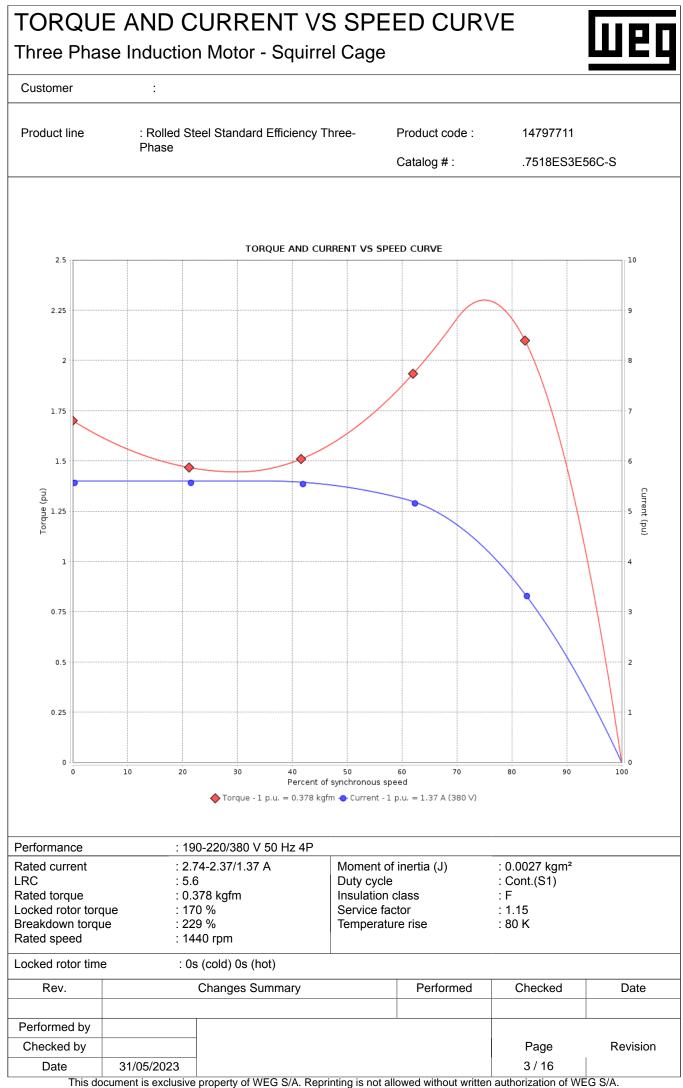
Customer

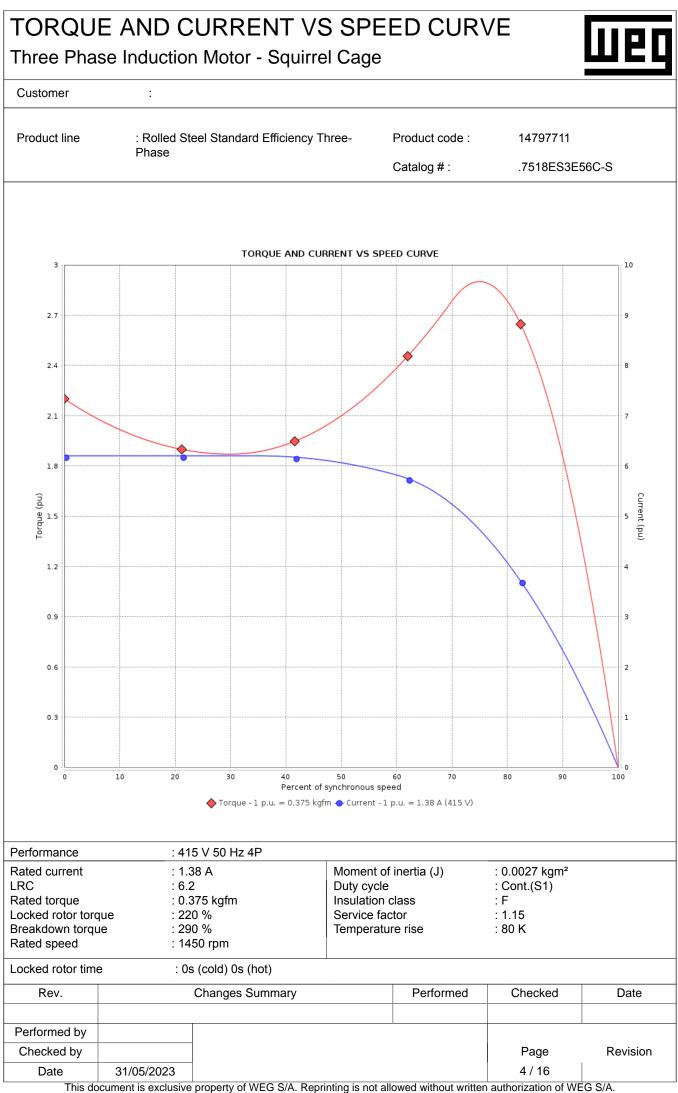
	: Rolle Phase		I Efficiency Thre	e- Pro	oduct code :	14797711	
	Phase			Ca	italog # :	.7518ES3E	56C-S
Frame Insulation class Duty cycle		: 56C : F : Cont.(S1)		Cooling me Mounting Rotation <sup>1</sup>	ethod	: IC411 - TE : F-1 : Both (CW	-
Ambient tempera	ature	: -20°C to +40 : 1000 m.a.s.l		Starting me		: Direct On : 10.7 kg	
Protection degre	e	: IP55		Moment of		: 0.0027 kg	m²
Output [HP]		0.			0.75		0.75
Poles Frequency [Hz]		6	l 0		4 50		4 50
Rated voltage [V]		208-23		190	)-220/380		415
Rated current [A]		2.70-2.4			-2.37/1.37		1.38
L. R. Amperes [A]		18.6-16			3-13.3/7.67		8.56
LRC [A]		6.9x(C			x(Code H)		(Code K)
No load current [A	N	1.55-1.8			-1.48/0.856	0.27	1.09
Rated speed [RPI		17		1	1440		1450
Slip [%]		2.			4.00		3.33
Rated torque [kgfr	m]	0.3			0.378		0.375
Locked rotor torqu		24			170		220
Breakdown torque		30			229		290
Service factor	<u> </u>				1.15		1.15
Temperature rise		80	K		80 K		80 K
Locked rotor time		30s (cold)		0s (co	old) 0s (hot)		old) 0s (hot)
Noise level <sup>2</sup>		52.0			0.0 dB(A)		.0 dB(A)
	25%	70	. ,		72.6		66.7
Efficience: (0/)	50%	72	.0		73.1		68.6
Efficiency (%)	75%	77	.0		76.5		74.2
	100%	78	.5		76.5		76.1
	25%	0.2			0.33		0.27
Power Factor	50%	0.4			0.58		0.49
	75%	0.0			0.72		0.62
	100%	0.1	72		0.80		0.73
Bearing type		Drive end : 6203 ZZ	Non drive end 6202 ZZ	Foundation Max. tractio		: 29 kgf	
Sealing		: V'Ring	Without Bearing Seal	Max. compi	ression	: 40 kgf	
Lubrication inter Lubricant amour		-	-				
Lubricant type	it.	· - · Mohil P	olyrex EM				
••							
Notes USABLE @208V	/ SF 1.00						
This revision repl	ed. notor from the	shaft end.				based on tests w e tolerances stip	
must be eliminate (1) Looking the m (2) Measured at (3) Approximate manufacturing pr	weight subjed		er				
<ol> <li>Looking the m</li> <li>Measured at</li> <li>Approximate manufacturing pr</li> <li>At 100% of fu</li> </ol>	weight subjec ocess.	t to changes afte					1
<ul><li>(1) Looking the m</li><li>(2) Measured at</li><li>(3) Approximate</li><li>manufacturing pr</li></ul>	weight subjec ocess.				Performed	Checked	Date
<ol> <li>Looking the m</li> <li>Measured at</li> <li>Approximate manufacturing pr</li> <li>At 100% of fu</li> </ol>	weight subjec ocess.	t to changes afte			Performed		Date
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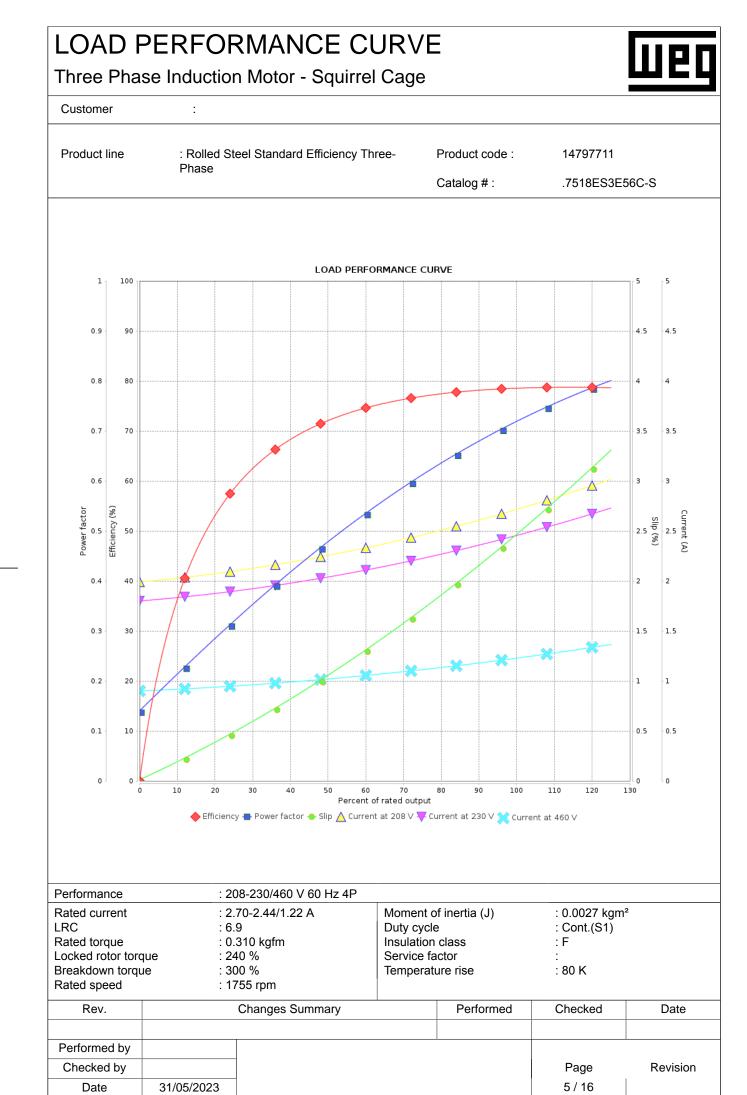
 Date
 31/05/2023
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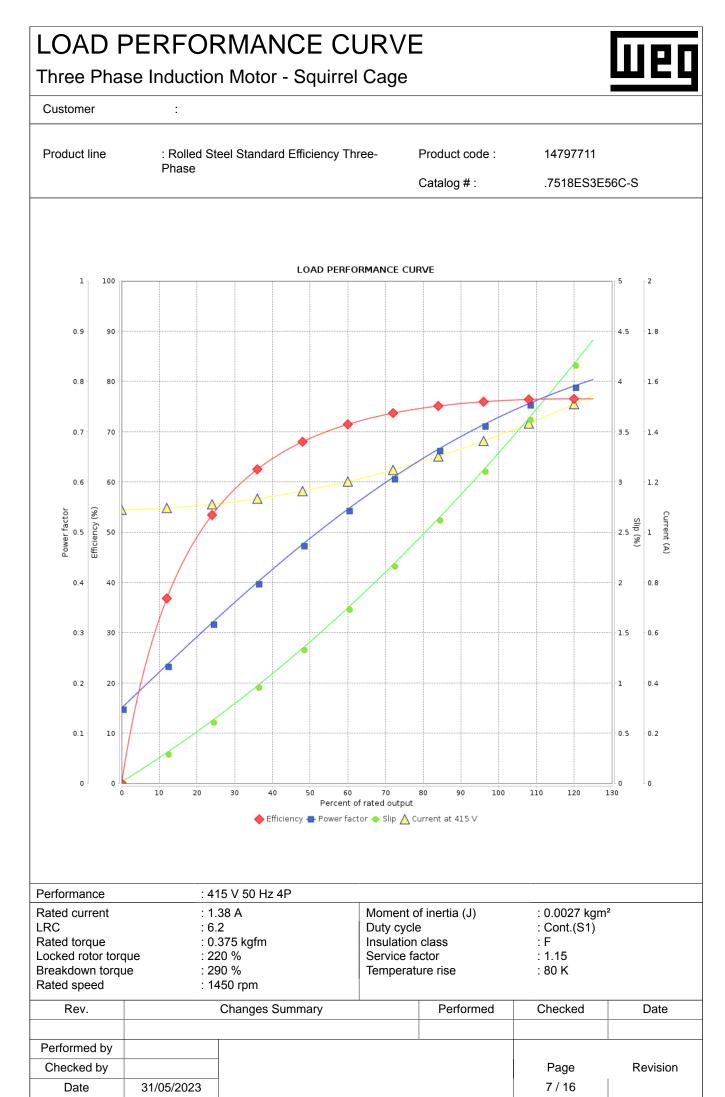




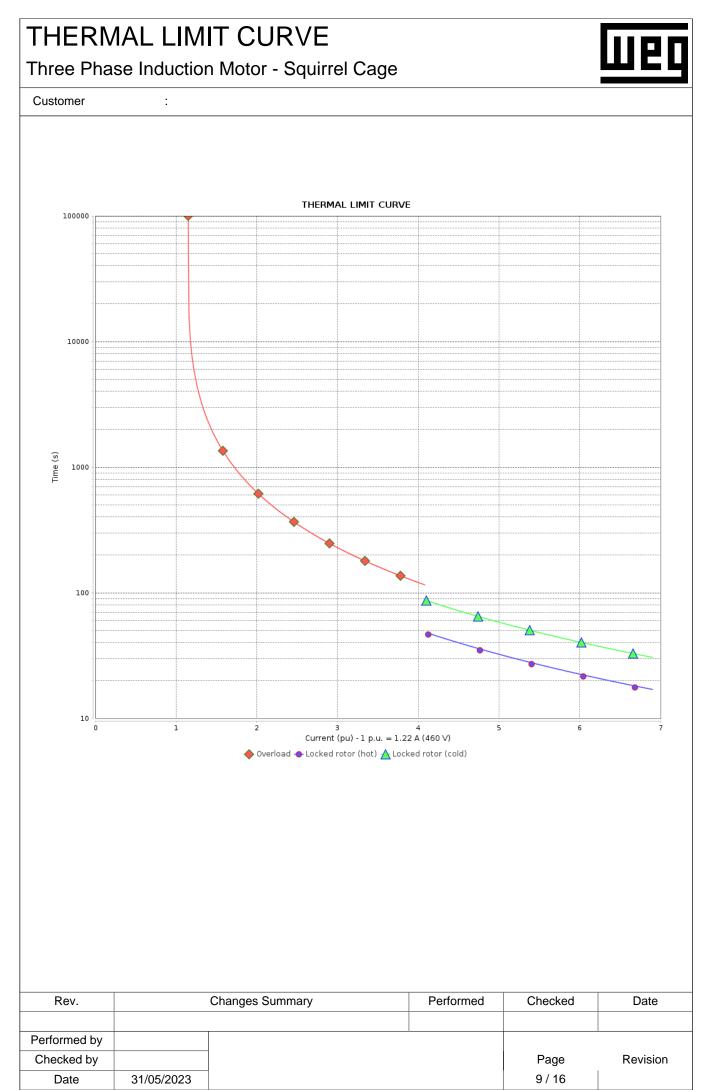


## LOAD PERFORMANCE CURVE Three Phase Induction Motor - Squirrel Cage Customer : Product line : Rolled Steel Standard Efficiency Three-Product code : 14797711 Phase Catalog # : .7518ES3E56C-S LOAD PERFORMANCE CURVE 1 100 10 5 9 4.5 0.9 90 0.8 80 8 Δ 3.5 0.7 70 7 0.6 6 60 3 $\wedge$ (%) Power factor 2.5 (A) Δ Slip (%) Efficiency 0.5 50 5 $\Delta$ 0.4 40 4 2 $\triangle$ Δ 1.5 0.3 30 3 0.2 20 2 1 10 0.5 0.1 1 0 0 0 0 120 Ó 10 20 30 90 100 110 130 40 60 70 80 50 Percent of rated output 🔶 Efficiency 🖶 Power factor 🔶 Slip 🛆 Current at 190 V 🐺 Current at 220 V 👷 Current at 380 V Performance : 190-220/380 V 50 Hz 4P : 0.0027 kgm<sup>2</sup> Rated current : 2.74-2.37/1.37 A Moment of inertia (J) LRC Duty cycle : 5.6 : Cont.(S1) Insulation class Rated torque : 0.378 kgfm : F Locked rotor torque : 170 % Service factor : 1.15 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1440 rpm Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page Date 31/05/2023 6/16

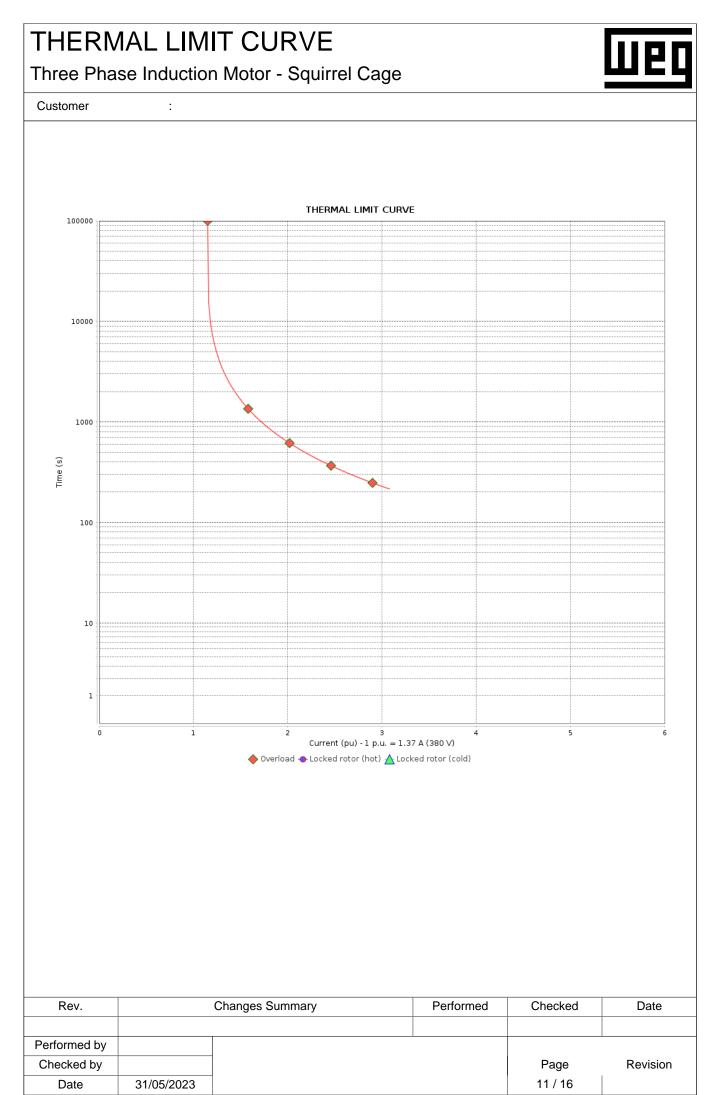
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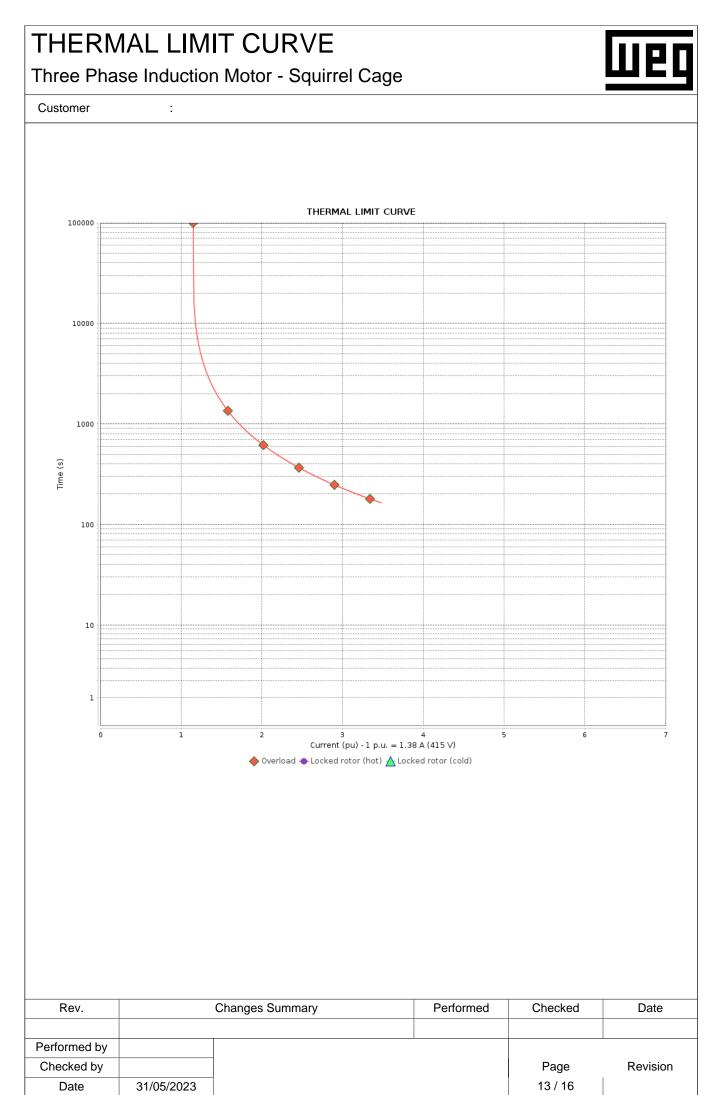
		IT CURVE n Motor - Squirrel	Cage			шед
Customer	:					
Product line	: Rolled St Phase	eel Standard Efficiency Thr		Product code : Catalog # :	14797711 .7518ES3E5	6C-S
Performance	. 2	08-230/460 V 60 Hz 4P				
Rated current LRC	: 2. : 6.	.70-2.44/1.22 A .9	Duty cycle		: 0.0027 kgm² : Cont.(S1)	!
Rated torque Locked rotor torq Breakdown torqu Rated speed	lue : 24 le : 30	.310 kgfm 40 % 00 % 755 rpm	Insulation Service fa Temperatu	ctor	: F : : 80 K	
Heating constant Cooling constant						
Rev.	·	Changes Summary		Performed	Checked	Date
Performed by Checked by Date	31/05/2023	-			Page 8 / 16	Revision

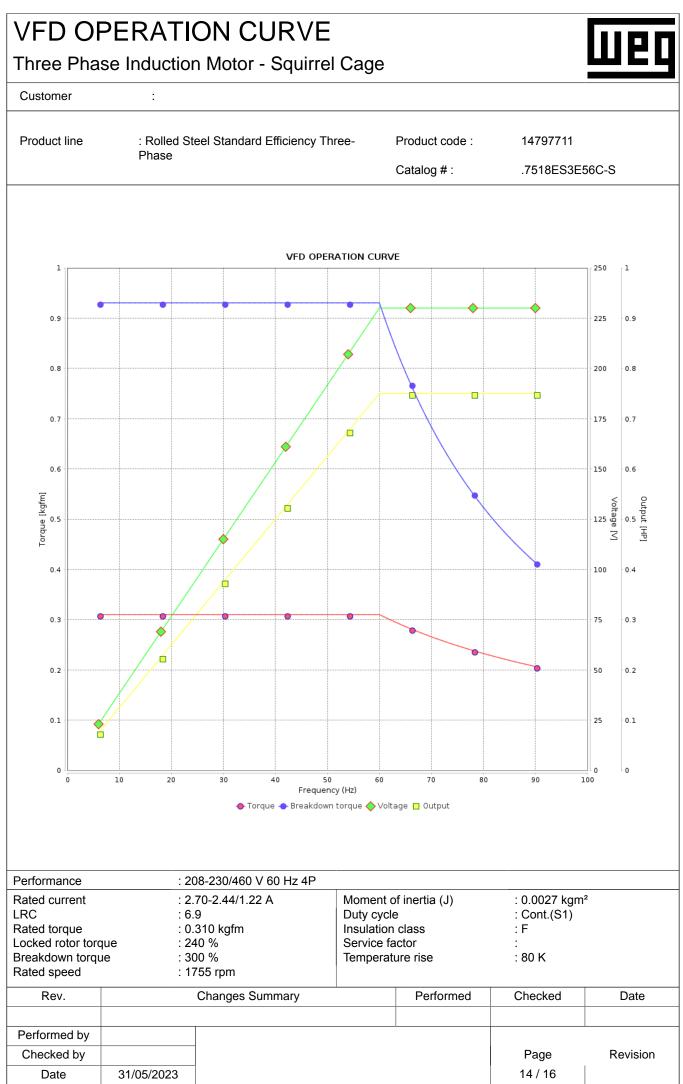


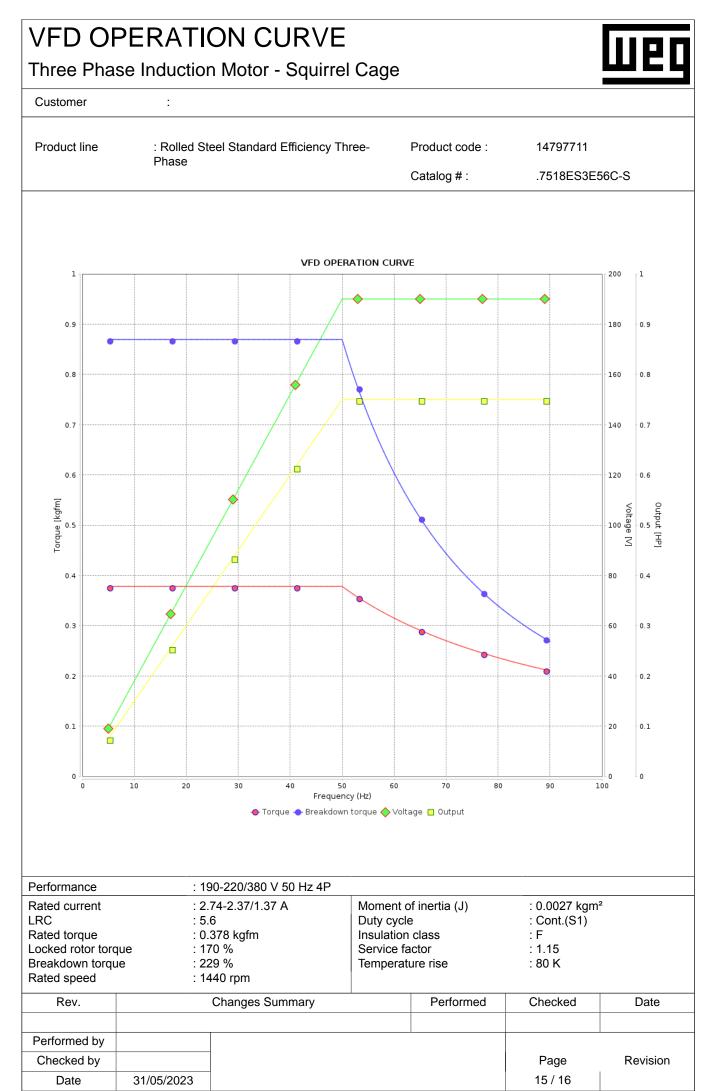
THERM	1AL LIM	IT CURVE				Шео
Three Pha	se Induction	n Motor - Squirrel	Cage			
Customer	:					
Product line		eel Standard Efficiency Th	ree-	Product code :	14797711	
	Phase			Catalog # :	.7518ES3E5	6C-S
Performance		90-220/380 V 50 Hz 4P		<i></i>		
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 5. : 0. iue : 1 ie : 22 : 14	74-2.37/1.37 A 6 378 kgfm 70 % 29 % 440 rpm	Moment of Duty cycle Insulation Service fa Temperat	class actor	: 0.0027 kgm² : Cont.(S1) : F : 1.15 : 80 K	
Heating constant						
Rev.		Changes Summary		Performed	Checked	Date
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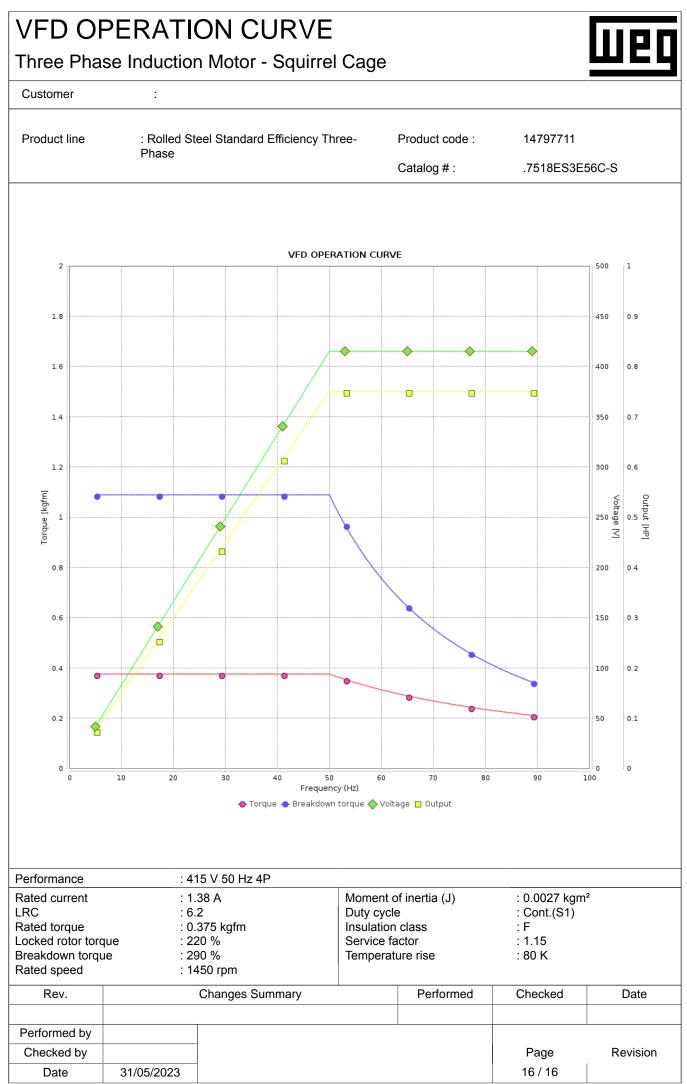


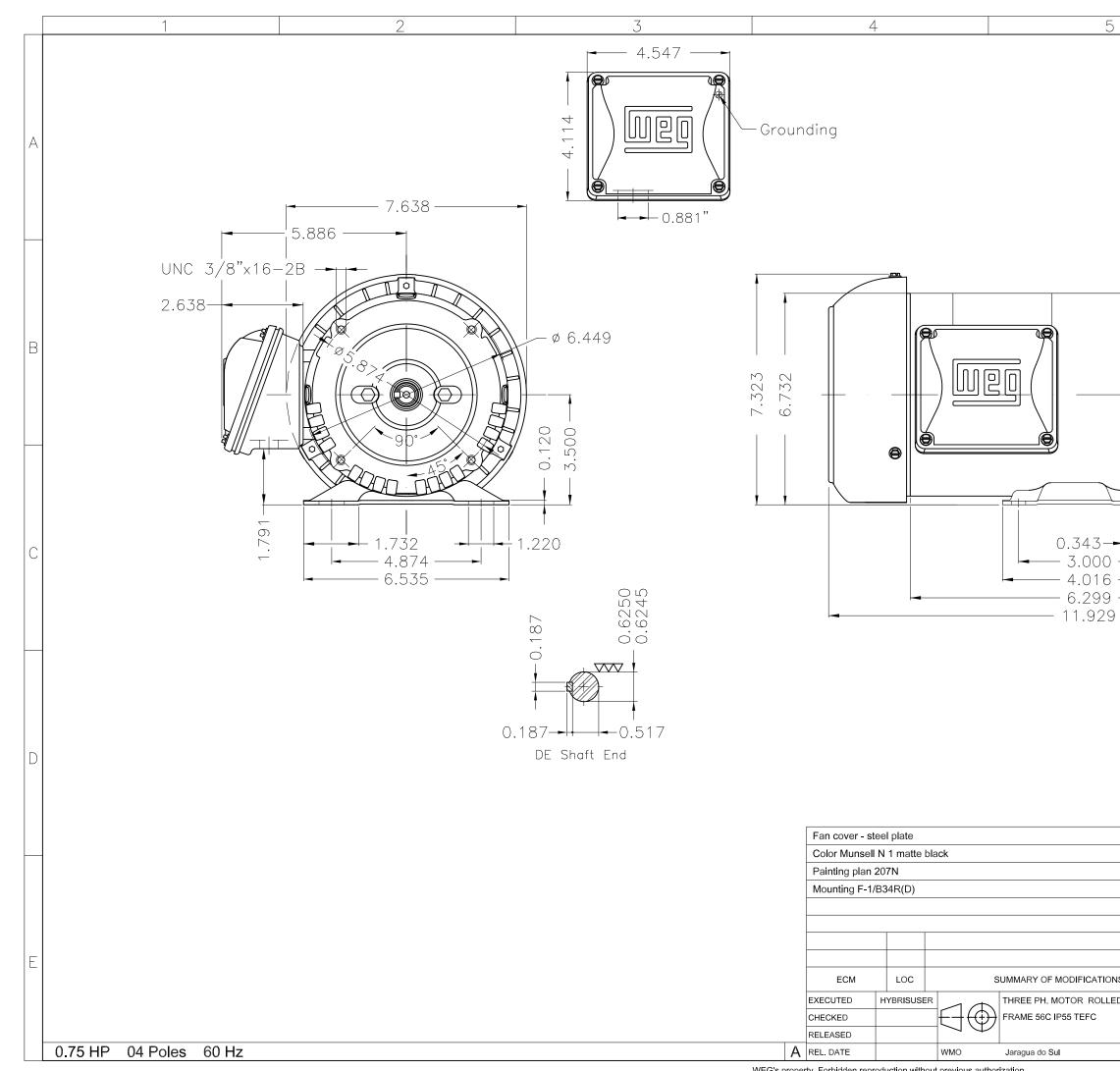
THERM	1AL LIM	IT CURVE				Шед
Three Pha	se Induction	n Motor - Squirrel	Cage			шсц
Customer	:					
Product line	: Rolled St Phase	eel Standard Efficiency Thr	ree-	Product code :	14797711	
				Catalog # :	.7518ES3E5	6C-S
Performance	: 4	15 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 6. : 0. jue : 22 ie : 29	38 A 2 375 kgfm 20 % 90 % 450 rpm	Moment of Duty cyclo Insulation Service fa Temperat	i class actor	: 0.0027 kgm <sup>2</sup> : Cont.(S1) : F : 1.15 : 80 K	
Heating constant						
Cooling constant				1		
Rev.		Changes Summary		Performed	Checked	Date
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Date	31/05/2023	-			12 / 16	











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		0.157	062 17 8 8 8 7 4 ±0.008		
					Dimensions in inches
	HYBRISUSER				00
ONS	EXECUTED	CHECKED	RELEASED	DATE	VER
ED STEEL		PREVI	EW		
		WDD	00	Ше	A3
Product	t Engineering	SHEET	1 / 1		XME







MAT: 14797711 No1.TEOIC0X0X MODEL .7518ES3E56C-S

MUDEL / 518ES3E56C

For 60Hz: Class I, Zone 2, IIC Class I, DIV.2, Gr. A,B,C,D - T3 DIV 2 Inverter Duty (SF1.00)

11MAY2023 B/N:	N:	CT 2:1/VT 1000:1
PH 3 Hz	Hz 60	HP 0.75
FR S6C		kW 0.55
DUTY CONT.		V 208-230/460
ALT 1000 m.a.s.l		A 2.70-2.44/1.22
INS CL F AT 80K	IP55	
AMB 40°C	DES -	SF 1.15
ENCL TEFC	CODE K	
USABLE @ 208V SF1.00	1.00	NEW 1735 New EF 78.5%
ALTERNATE RATING: 0.75HP 50Hz	3: 0.75HP	190-220/380-41
2.74-2.60/1.37-1.38A		1440RPM EFF 78.1% (IE1) IEC 60034-1
For safe area-Inve	rter duty mo	For safe area-Inverter duty motor For 60Hz use on VPWM 1000:1 VT, 10:1 CT
DE 6203-ZZ DI	ODE 6202-ZZ	MOBIL POLYREX EM
14 15	5 _T6	T4 T5 T6
	•	THAT TI TO MHT

HW-Z T8-RED T4-YEL F6-GRY **T9-RED BRK I3-ORG** T1-BLU I7-PNK T5-BLK NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION T9 23 T8 ᄂ HIGH BATJOV > **39ATJOV** ≿ MOT

WARNING: Mo and nation shocks. I

chocks. Disconnect power source before servicing unit. WARNING: Motor must be grounded in accordance with local nd national electrical codes to prevent serious electrical

nentation avant l'entrefien de la machine ter tout AVERTISSEMENT: Le moteur doit être mis à la terre ux et nationaux afin d'évit conformément aux codes électriques loc chos électrique grave. Déconnectez l'alli