DATA SHEET

Three Phase Induction Motor - Squirrel Cage

:



Customer

Product line		: NEMA Premium Effi Phase	ciency T	hree- Pi	roduct code :	11705378	3
		FildSe		C	atalog # :	40018XT	3G586/7
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design		: 586/7T : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : B		Cooling method Mounting Rotation ¹ Starting method Approx. weight ³ Moment of inertia (J)		: IC411 - TEFC : F-1 : Both (CW and CCW) : Direct On Line : 4063 lb : 179 sq.ft.lb	
Output [HP]		400		350	35	50	350
Poles		4		4	4		4
Frequency [Hz]		60		50	5	0	50
Rated voltage [V]		460		380	40	00	415
Rated current [A]		460		485	45	59	448
. R. Amperes [A]		2944		2765	29	38	3091
.RC [A]		6.4x(Code G)	5.7	7x(Code F)	6.4x(C	ode G)	6.9x(Code H)
No load current [A]	120		118	12	29	138
Rated speed [RPN		1790		1490	14	90	1490
Slip [%]		0.56		0.67	0.0	67	0.67
Rated torque [ft.lb]	1170	1	1230	12	30	1230
ocked rotor torqu		180	1	160	18	30	190
Breakdown torque		200	1	190	21	0	229
Service factor		1.15		1.00	1.0		1.00
Temperature rise		80 K		80 K	80	K	80 K
ocked rotor time		32s (cold) 18s (hot)	s (hot) 45s (cold) 25s		ot) 45s (cold)	25s (hot) 4	5s (cold) 25s (hot)
Noise level ²		83.0 dB(A)	7	'9.0 dB(A)	79.0 0	dB(A)	79.0 dB(A)
	25%	95.3			95	.0	95.0
Efficiency $(9/)$	50%	95.4		95.4	95	.4	95.4
Efficiency (%)	75%	96.2		95.8	95	.8	95.8
	100%	96.2		95.8	96	.2	96.2
	25%	0.56		0.58	0.5	54	0.51
Dowor Fostor	50%	0.80		0.81	0.7	78	0.76
Power Factor	75%	0.84		0.84	0.8	33	0.82
	100%	0.85		0.85	0.8	35	0.84
Bearing type Sealing Lubrication interv		: 6322 C3 63 : Viton Vito Oil Seal : 5138 h 70	038 h	Max. tracti	on	: 3888 lb : 7951 lb	
Lubricant amoun Lubricant type	nt	: 60 g : Mobil Polyrex l	45 g ⊨M				
Notes							
This revision repla 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.	ncel the previous one, w e shaft end. olerance of +3dB(A). tt to changes after	hich		average values ply, subject to th		with sinusoidal ipulated in NEMA
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ID	Application	Туре	Quantity	Sensing 1	Femperature
1	Winding	Thermostat - 2 wires	1 x Phase		55 °C
1	winding	memostat - 2 wires	I X FIIdSe		55 C
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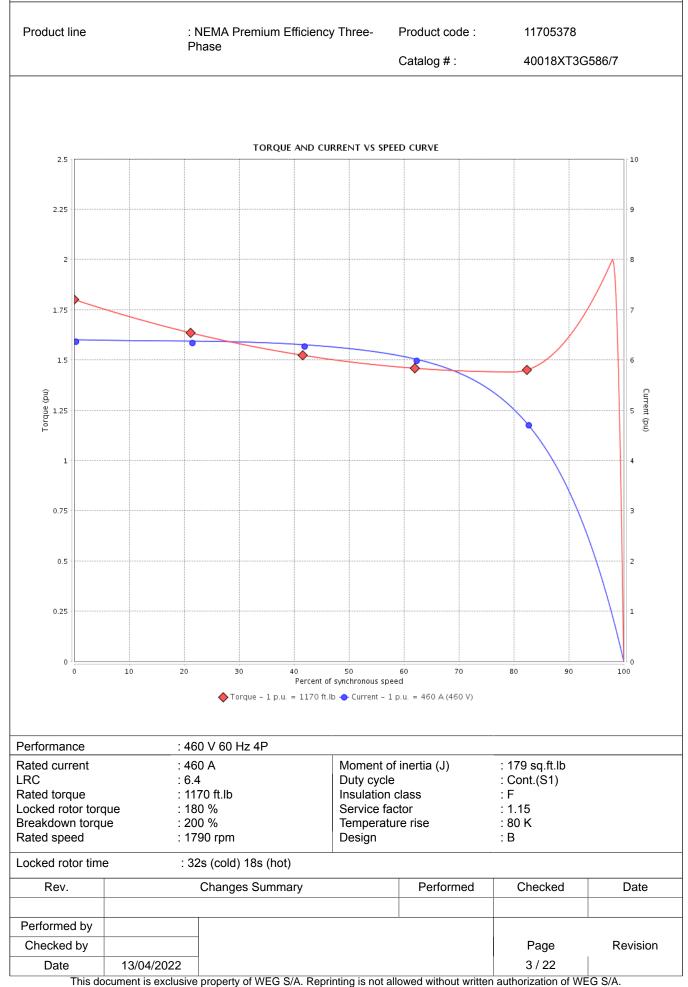
TORQUE AND CURRENT VS SPEED CURVE

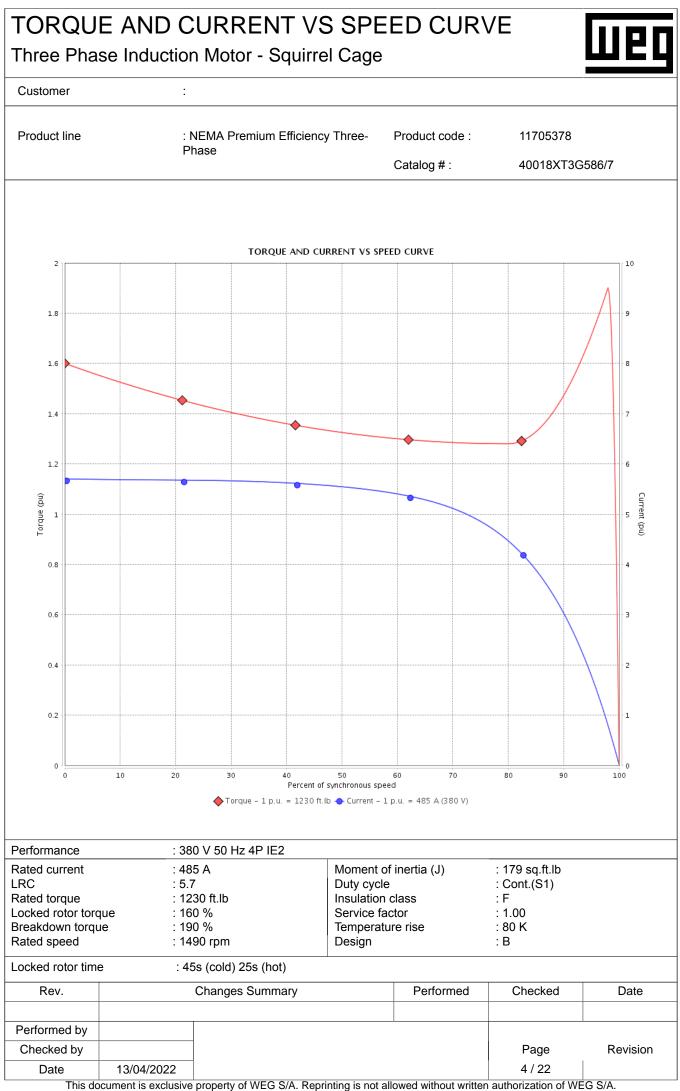
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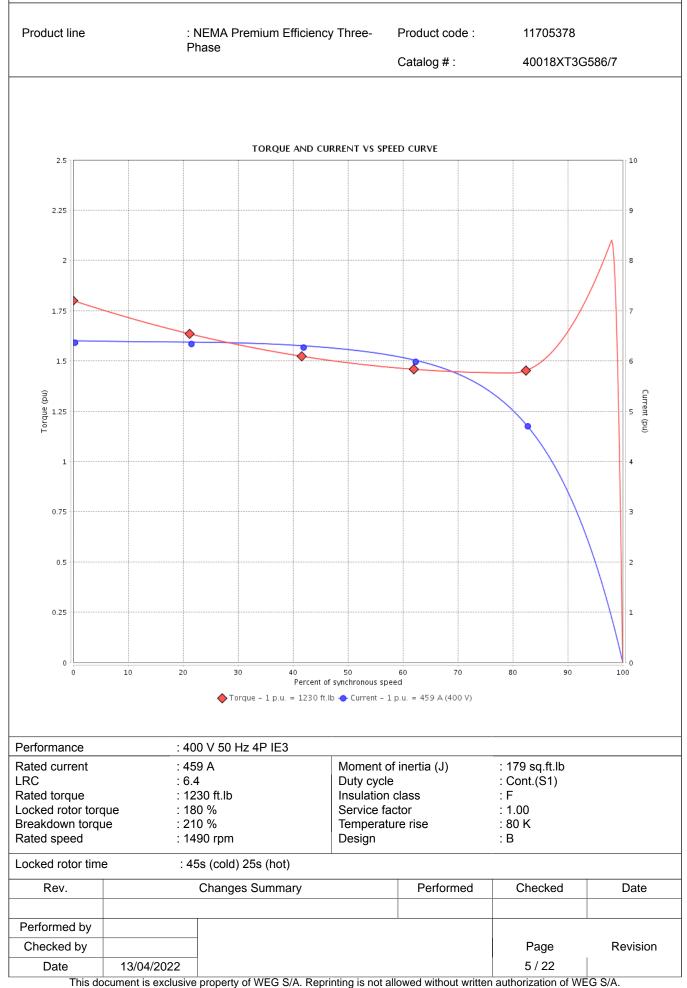
TORQUE AND CURRENT VS SPEED CURVE

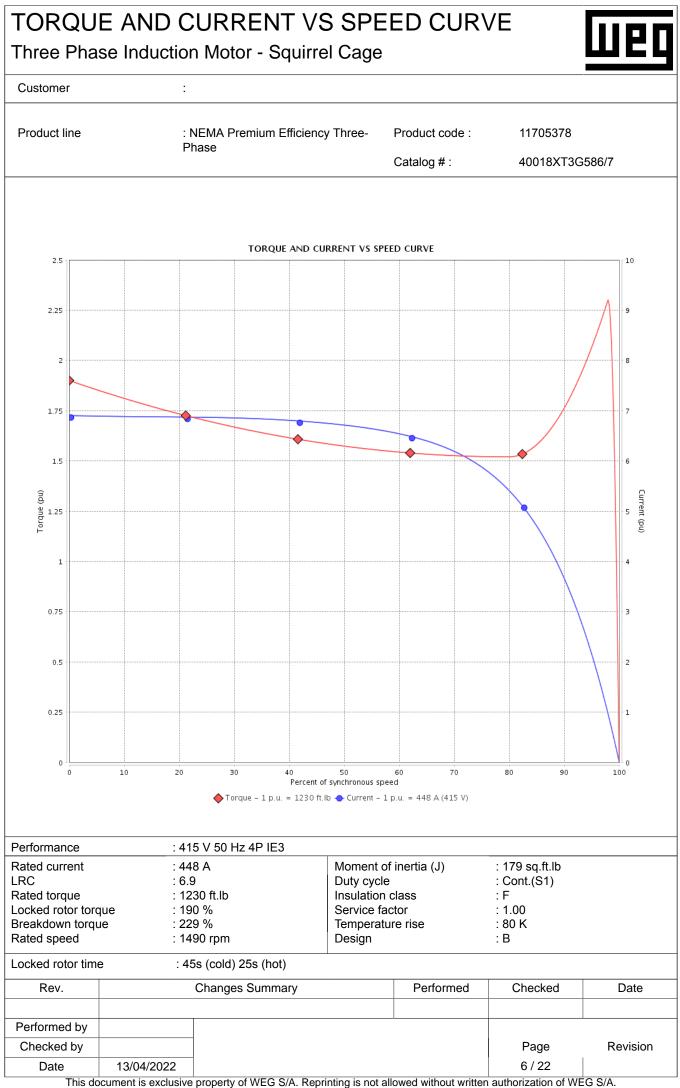
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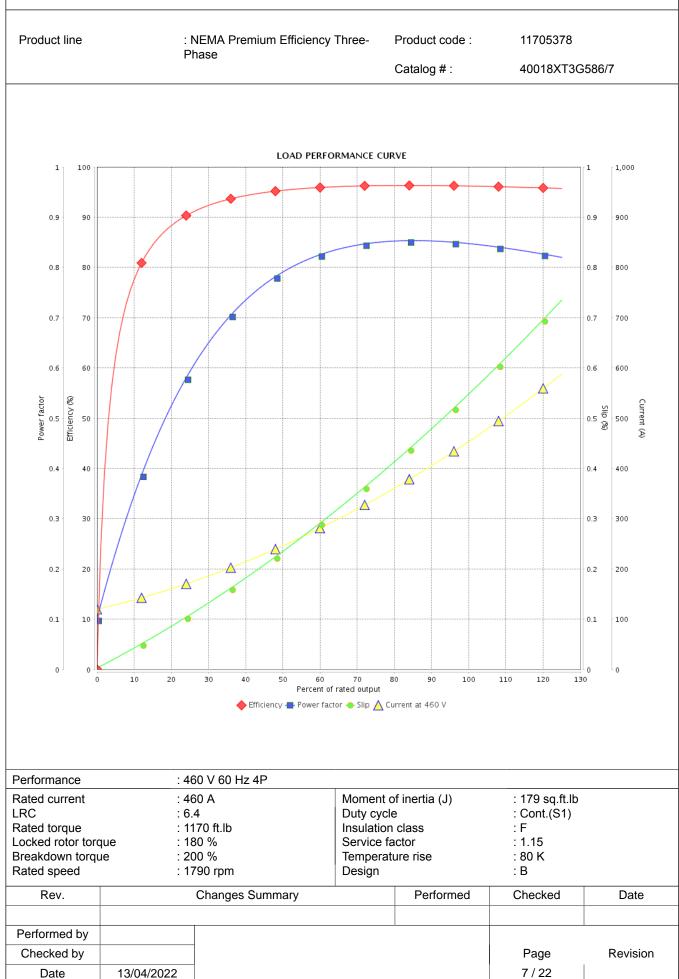




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Customer



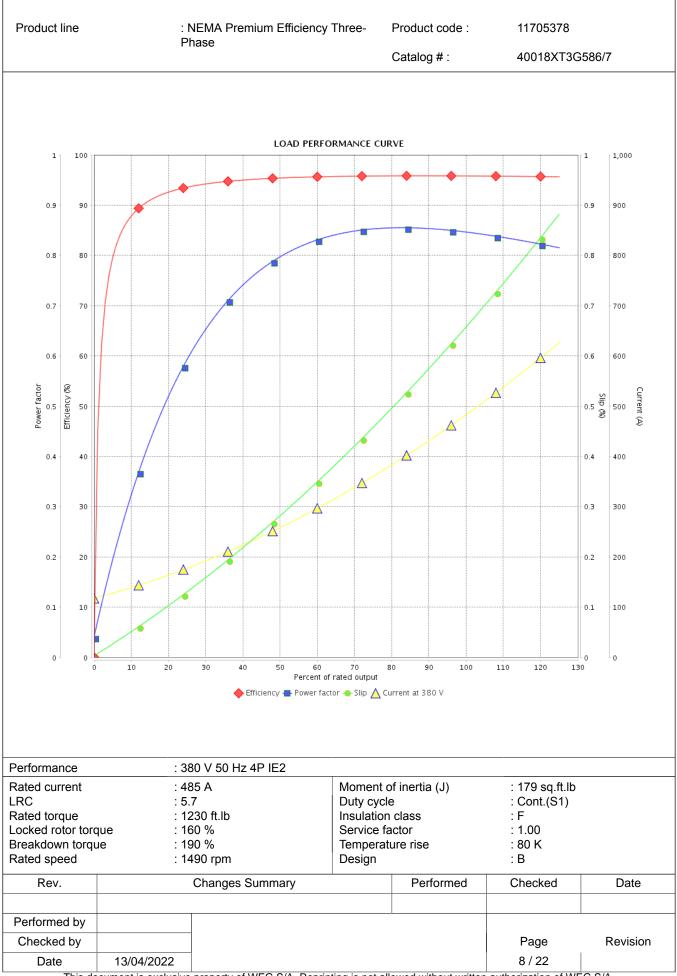
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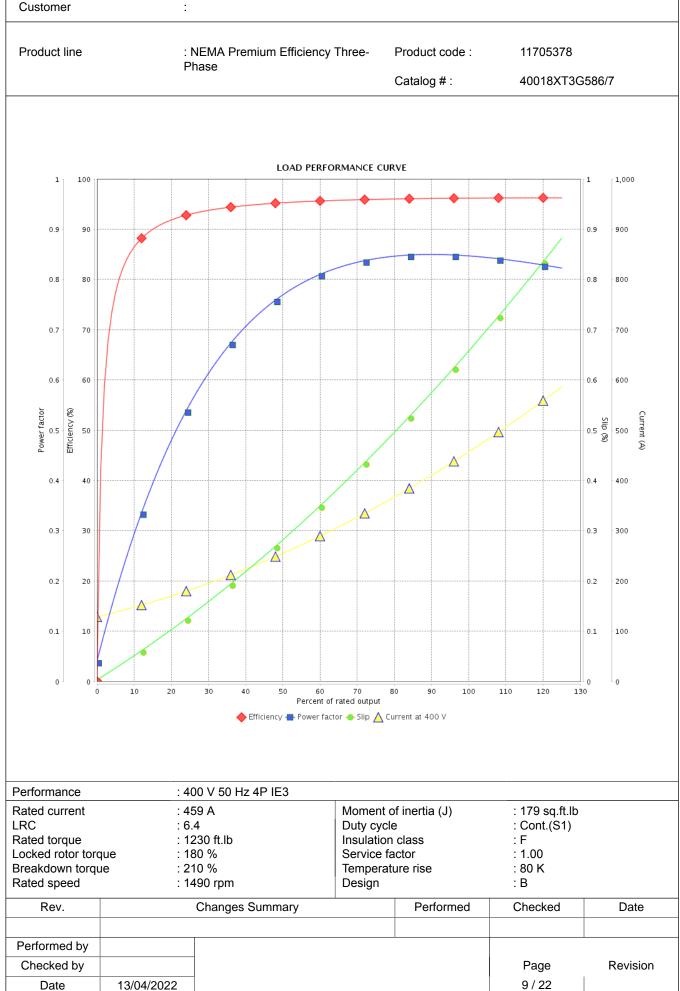


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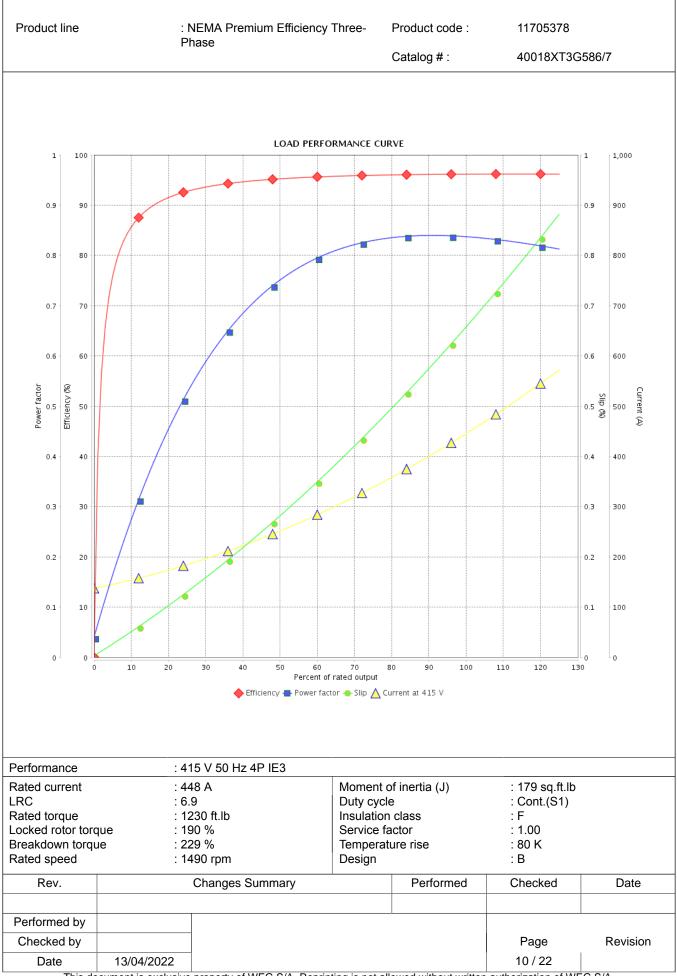
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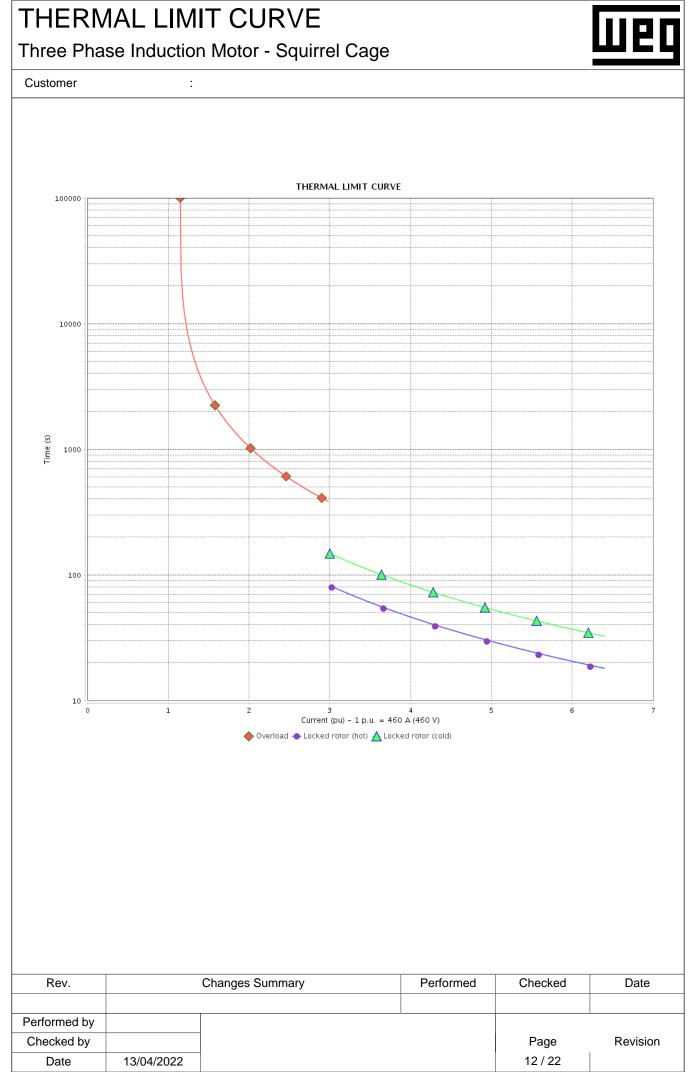
Three Phase Induction Motor - Squirrel Cage

Customer

Product line	: NEMA Premium Efficiency Three- Phase	Product code :	11705378
	Flidse	Catalog # :	40018XT3G586/7

Шед

Performance	: 46	60 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 6. : 1 ⁻ iue : 18 ie : 20	60 A .4 170 ft.lb 80 % 00 % 790 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 179 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant	t					
Cooling constant	:					
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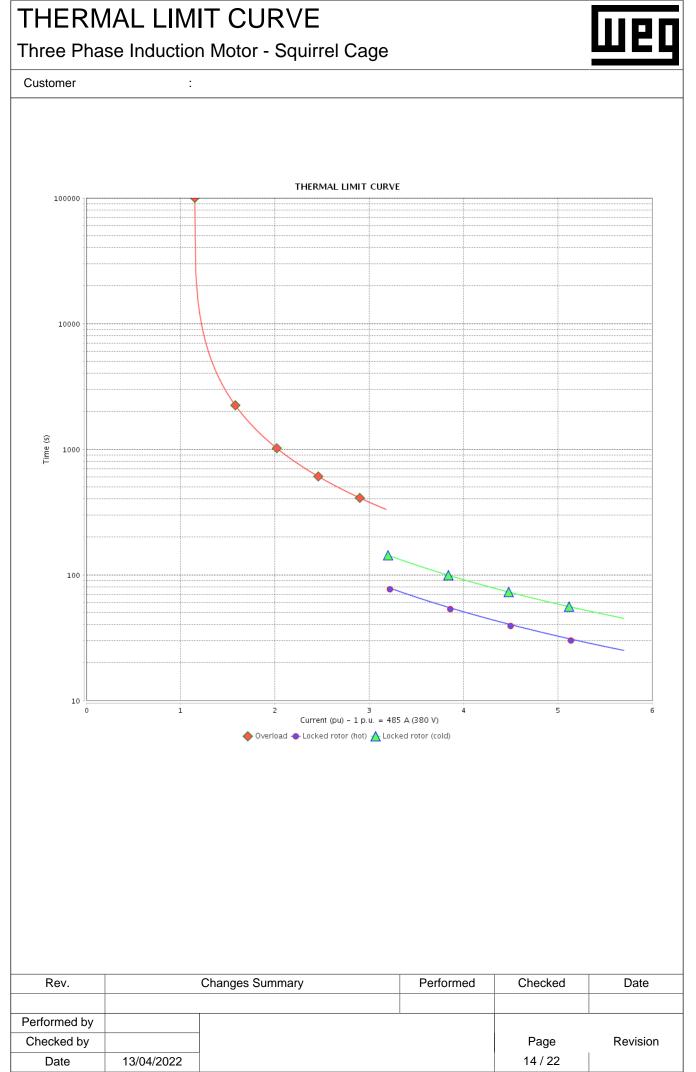
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Customer

Product line	: NEMA Premium Efficiency Three-	Product code :	11705378
	Phase	Catalog # :	40018XT3G586/7

Шед

Performance	:	380 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	ue :	485 A 5.7 1230 ft.lb 160 % 190 % 1490 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 179 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
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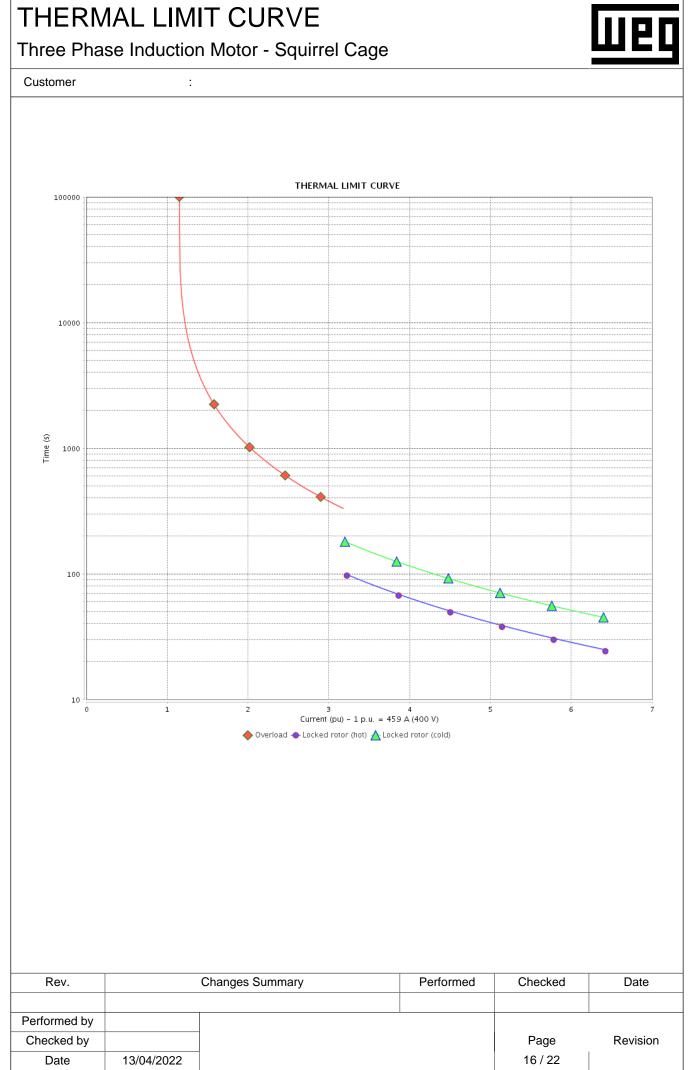
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Customer

Product line	: NEMA Premium Efficiency Three- Phase	Product code :	11705378
		Catalog # :	40018XT3G586/7

Шеq

Performance	:	400 V 50 Hz 4P IE3	400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	ue :	459 A 6.4 1230 ft.lb 180 % 210 % 1490 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design			
Heating constant							
Cooling constant							
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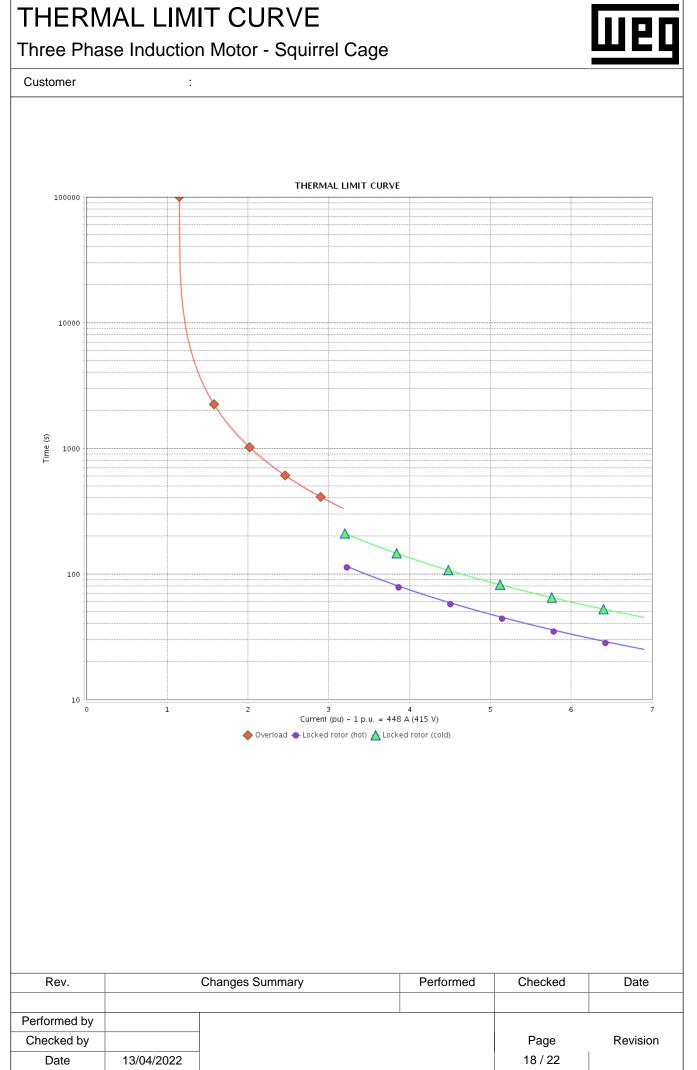
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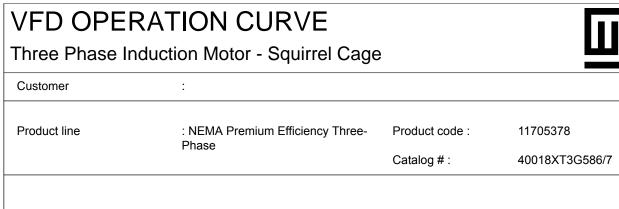
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		Catalog # :	40018XT3G586/7

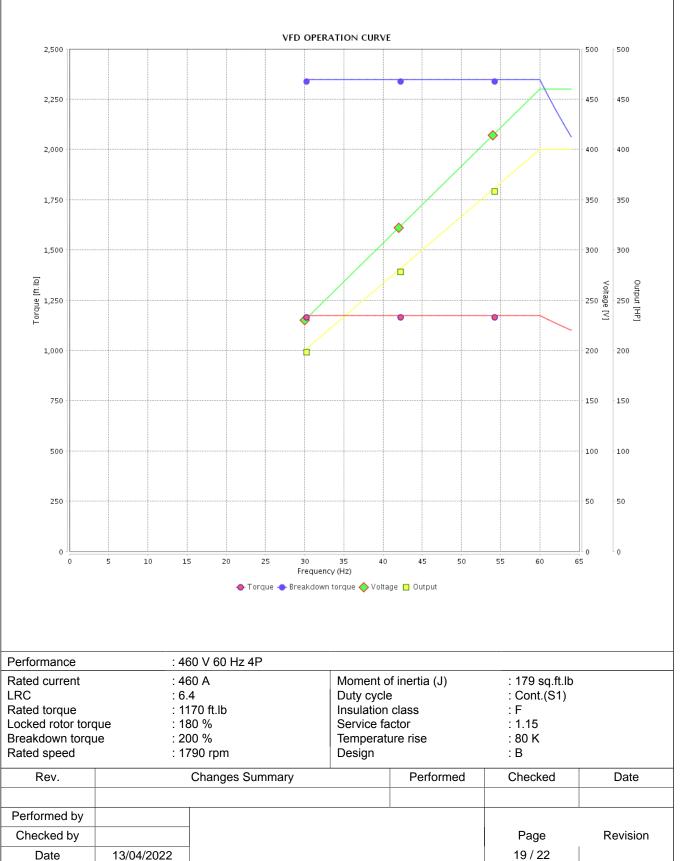
Шед

Performance	:	415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	ue :	448 A 6.9 1230 ft.lb 190 % 229 % 1490 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 179 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
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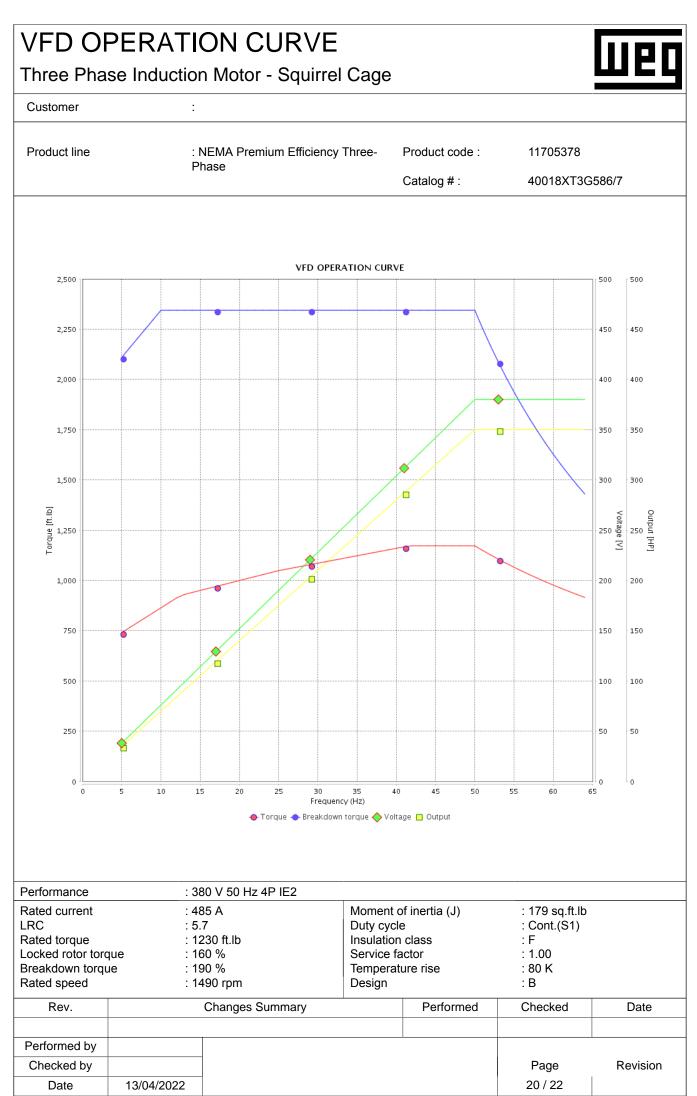


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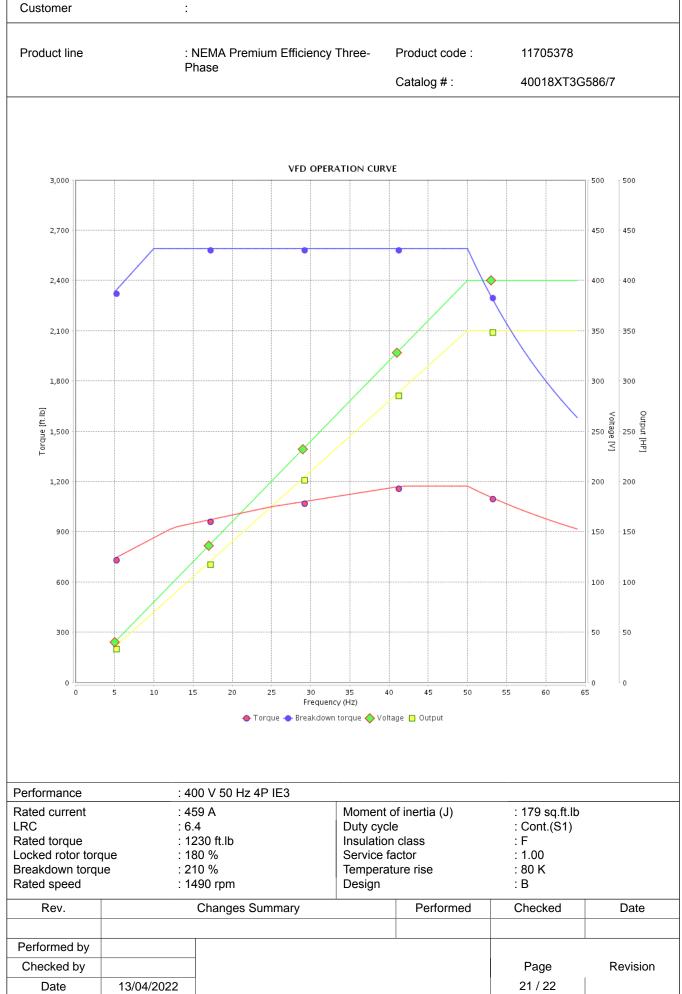
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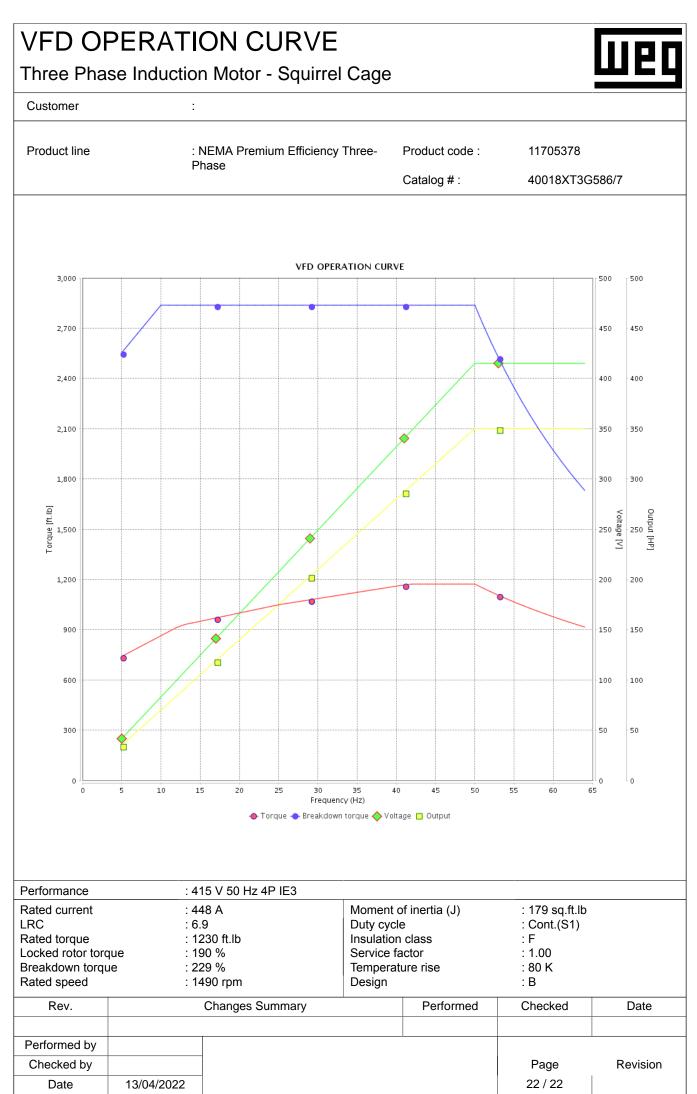
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VFD OPERATION CURVE Three Phase Induction Motor - Squirrel Cage

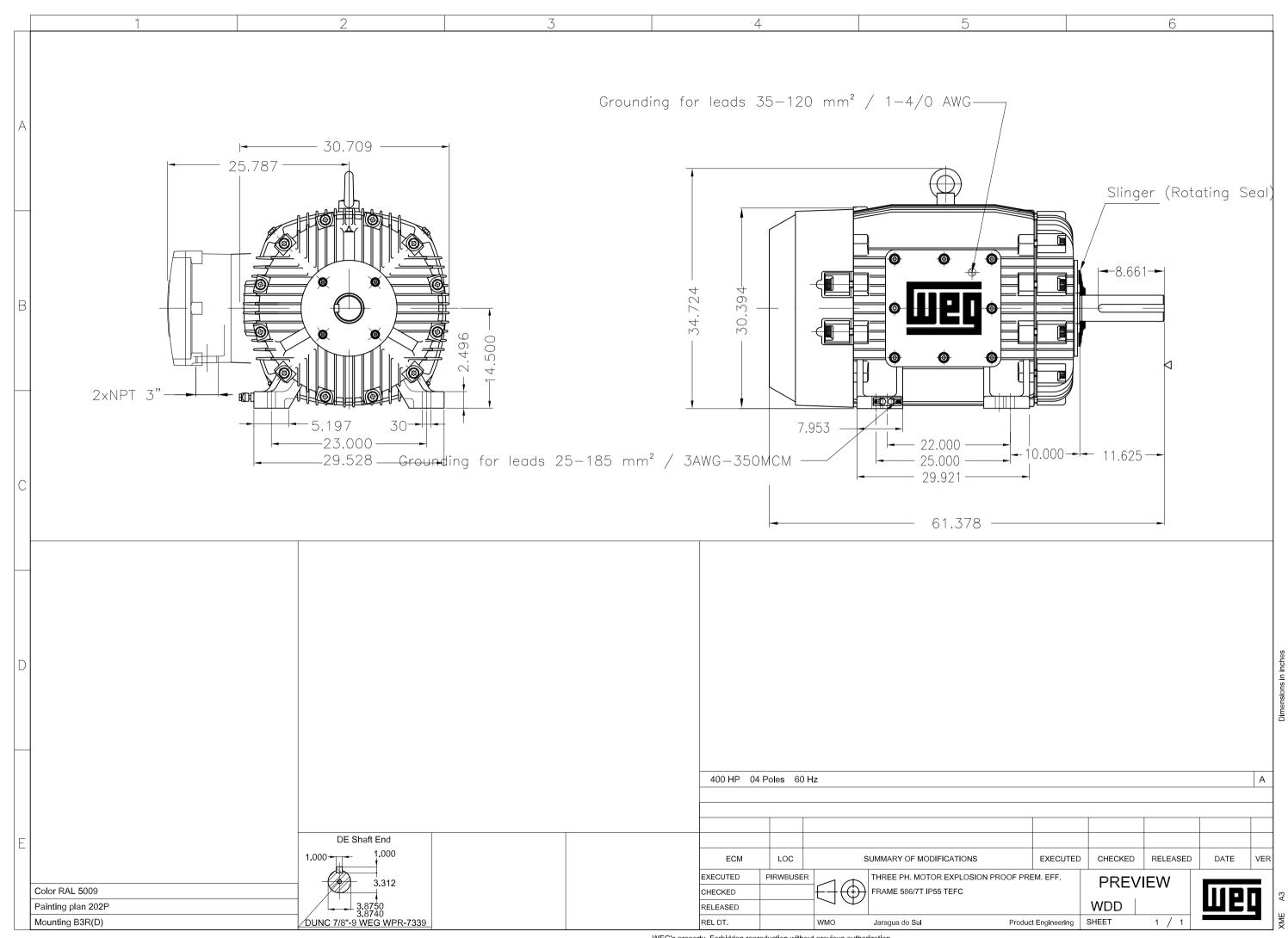
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	Inverter Duty Motor Severe Duty		(h) usi	STED C C US C Dwrgy Verified	TEMP CODE T3C CSA/UL: Closs I - Div. 1 - Groups C and D CSA: Class II - Div. 1 - Groups F and G CSA: Class I - Zone 1 - IIB EXPLOSION PROOF MOTOR FOR USE ON VPWN VFD 1000:1VT, 2:1CT, 1:0SF, T3C, AMB	40°C.
	PH 3 FR 586/7T HP(I	(kW) 400(300)		Hz 60	PART-WINDING WYE-DELTA	
BBW2 BRA2 78	V 460	A 460	RPM 17	790	START RUN START RUN ଦ112 ଦ111 ଦ112 ଦ110 ଦ111 ଦ112 ଦ110 ଦ100 ଦ100 ଦ100 ଦ100 ଦ100 ଦ100 ଦ100 ଦ100 ଦ	
4NPE N B 053	NEMA NOM. EFF. 96.2%	INS CL F	/	80 K IP55		
	PF 0.85 DUTY	CONT.		CODE G		үт 3 L3
HX40 MAC	ENCL. TEFC SF 1	1.15 SFA 52	.9	· · · · · · · · · · · · · · · · · · ·	\Rightarrow 6322-C3(60a) MOBIL POLYRE	
	AMB 40°C DES B					38 h
					ALT 1000 m.a.s.l 4059 Lbs	