# DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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#### Customer

Product line		: JM Pump NEMA Premium Efficiency Three-Phase	Product code :	12789072	
Frame Insulation class		: 254/6JM : F	Cooling method Mounting	: IC01 - ODP : F-1	
Duty cycle		: Cont.(S1)	Rotation <sup>1</sup>	: Both (CW and CCW)	
Ambient temperature		: -20°C to +40°C	Starting method	: Direct On Line	
Altitude		: 1000 m.a.s.l.	Approx. weight <sup>3</sup>	: 103 kg	
Design		: B	Moment of inertia (J)	: 0.0939 kgm²	
Output [HP]		20	20	20	
Poles		4	4	4	
Frequency [Hz]		60	50	50	
Rated voltage [V]		230/460	190/380	220/415	
Rated current [A]		50.0/25.0	59.8/29.9	54.0/28.6	
. R. Amperes [A]		315/158	311/155	313/166	
LRC [A]		6.3x(Code G)	5.2x(Code F)	5.8x(Code G)	
No load current [A]		22.9/11.4	22.4/11.2	23.6/12.5	
Rated speed [RPM]		1770	1460	1465	
Slip [%]		1.67	2.67	2.33	
Rated torque [kgfm]		8.20	9.94	9.91	
ocked rotor torqu		240	180	200	
Breakdown torque [%]		290	220	250	
Service factor		1.15	1.15	1.15	
Temperature rise		80 K	80 K	80 K	
Locked rotor time		27s (cold) 15s (hot)	0s (cold) 0s (hot)	Os (cold) Os (hot)	
Noise level <sup>2</sup>		64.0 dB(A)	62.0 dB(A)	62.0 dB(A)	
	25%	91.7	93.0	92.2	
$\Gamma$ fficiency (0/)	50%	92.4	91.8	91.4	
Efficiency (%)	75%	92.4	91.2	91.3	
	100%	93.0	89.7	90.2	
	25%	0.38	0.46	0.41	
Dower Feator	50%	0.63	0.72	0.68	
Power Factor	75%	0.74	0.82	0.79	
	100%	0.81	0.85	0.84	
		Drive end Non drive end	Foundation loads		
Bearing type Sealing		: 6309 Z C3 6208 Z C3	Max. traction	: 338 kgf	
		: Without Without	Max. compression : 441 kgf		
		Bearing Seal Bearing Seal			
Lubrication inter		: 20000 h 20000 h			
Lubricant amour	nt	: 13 g 8 g			
Lubricant type		: Mobil Polyrex EM			
Notes	/ 55.3A SF 1.0	00 SFA 55.3A			
USABLE @208V					
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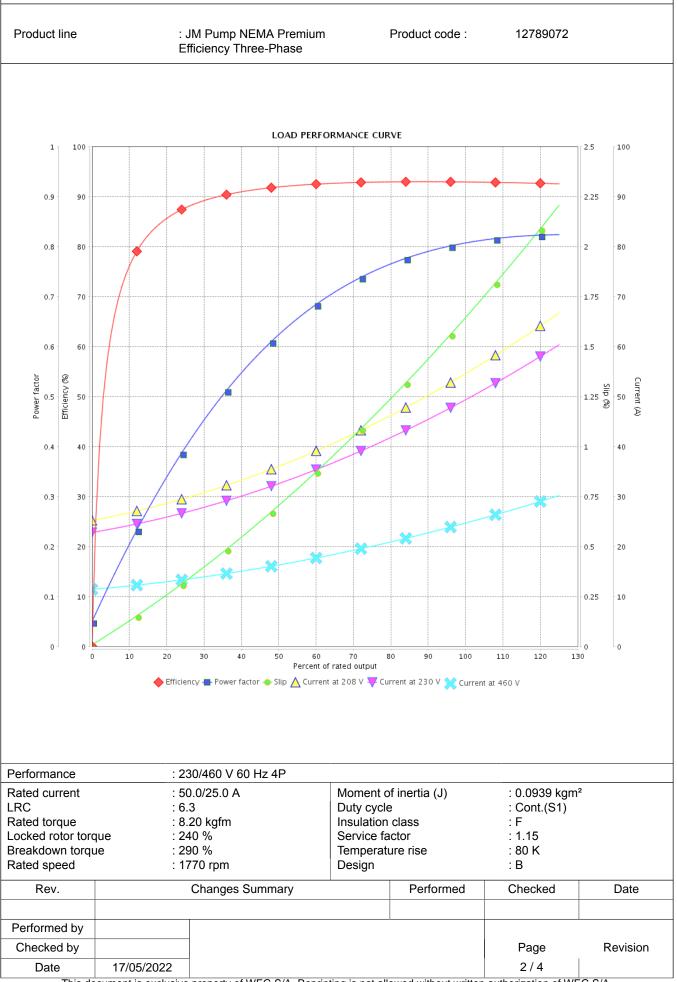
## LOAD PERFORMANCE CURVE

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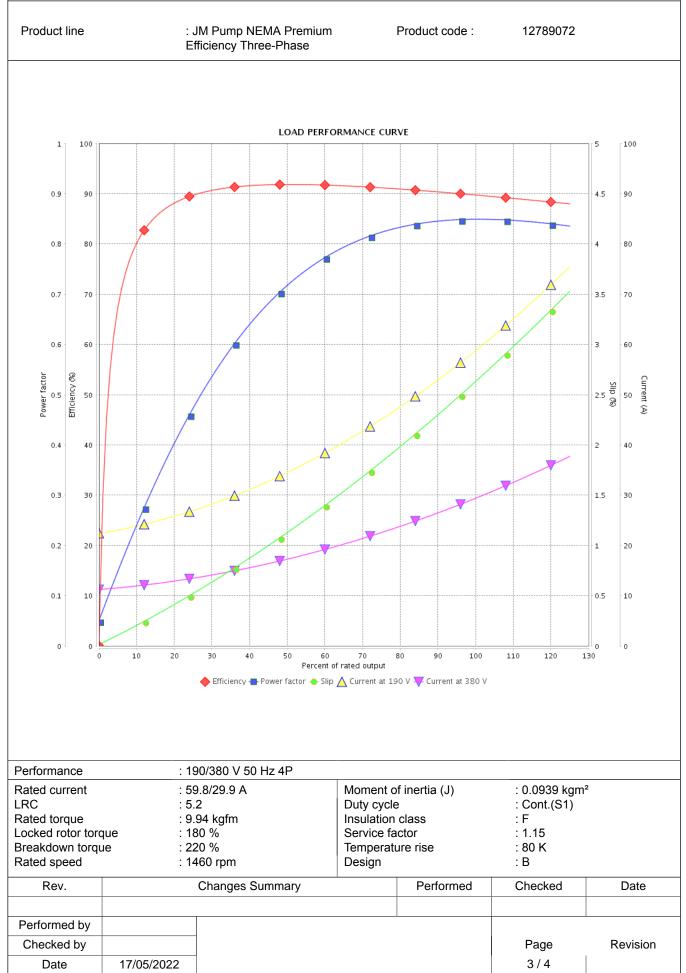
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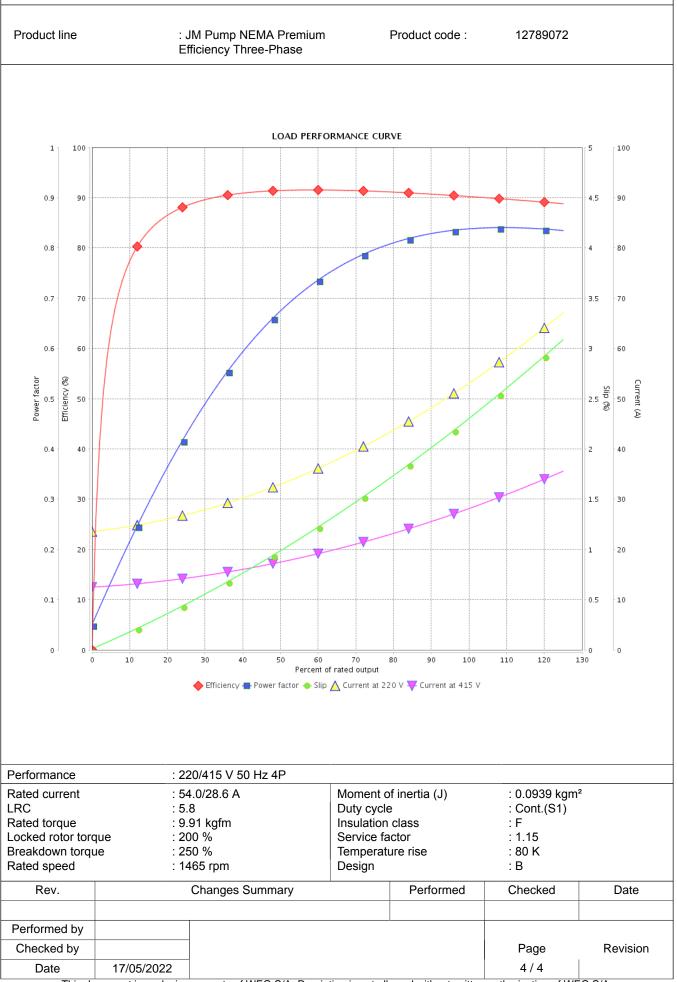
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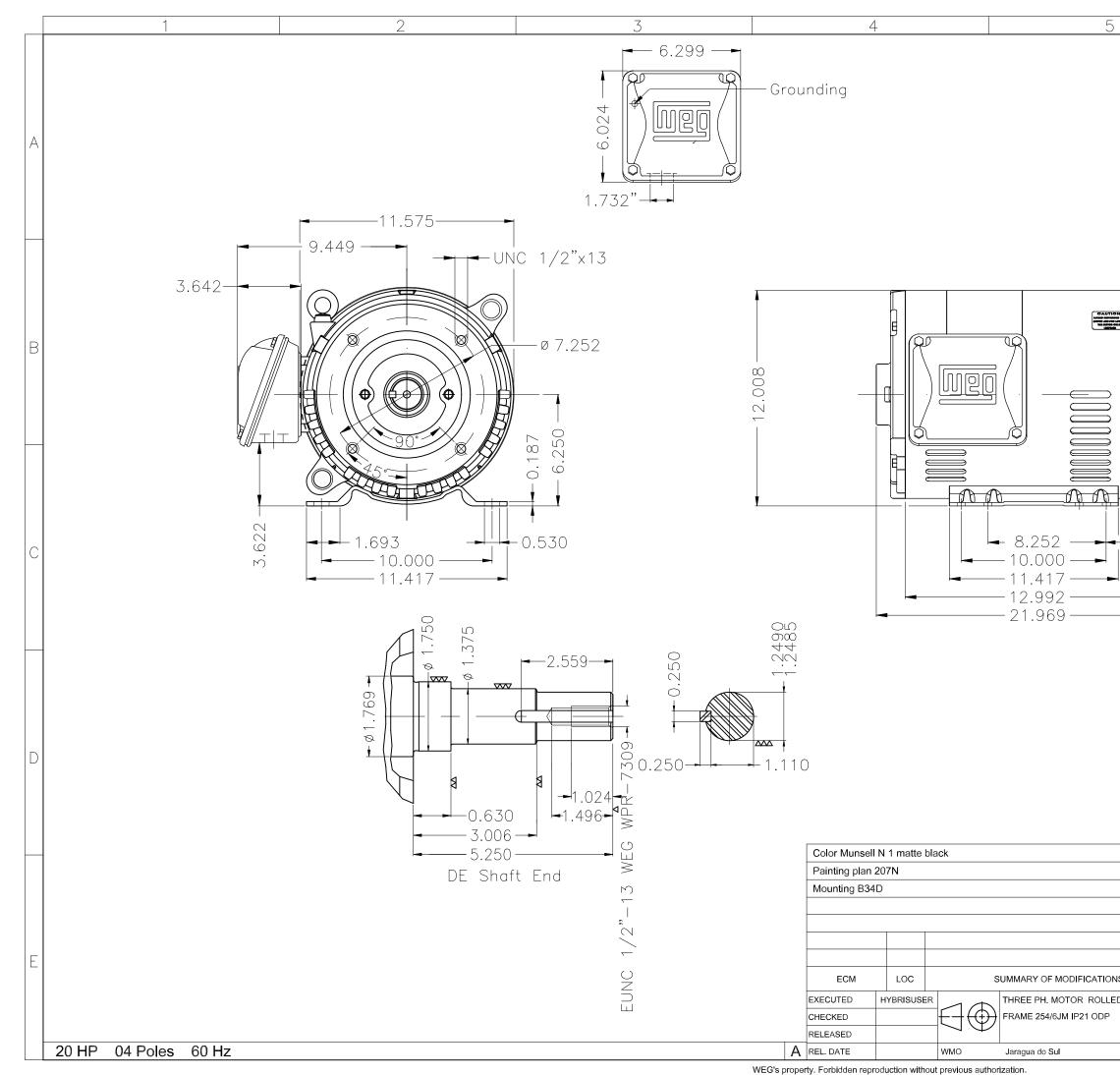
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					Dimonsions in inches
	HYBRISUSER				00
NS	EXECUTED	CHECKED	RELEASED	DATE	VER
ED STEEL JM NE	MA PREM. EFF	PREVI	FW		
				ШВ	
		WDD	00		
Product	Engineering	SHEET	1 / 1		