## DATA SHEET

## Three Phase Induction Motor - Squirrel Cage

:



## Customer

No load current [A]         20.1/10.0           Rated speed [RPM]         3530           Slip [%]         1.94           Rated torque [kgfm]         5.14           Locked rotor torque [%]         240           Breakdown torque [%]         340           Service factor         1.15           Temperature rise         80 K           Locked rotor time         14s (cold) 8s (hot)	Product line		: JM Pump NEMA Premiun Efficiency Three-Phase	n	Product code :	13439527	13439527	
Dels         2           Tequency [Hz]         60           Rated voltage [V]         230/460           Atted current [A]         57.0728.5           R. Amperes [A]         4.73/237          R. C [A]         8.3x(Code J)           No load current [A]         20.1/10.0           Stated speed [RPM]         3530           Sign [%]         1.94           Rec [A]         4.73/237           Stated speed [RPM]         3530           Sign [%]         1.94           Stated speed [RPM]         340           Service factor         1.15           Ferrore factor         1.15           Ferrore factor         1.15           Ferrore factor         1.45 (cold) 8s (hot)           Service factor         1.60%           Service factor         1.60%           Efficiency (%)         50%         91.7           100%         0.85           Drive end Non drive end         Service factor           Sealing         VRing         Without           Bearing type         6309 2.03 6208 2.03         Max. compression         :330 kgf           Lubrication interval         1.7577 h         20000 h         Lubrication indestanced.	Insulation class Duty cycle Ambient temperature Altitude Protection degree		: F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55	Mountin Rotatior Starting Approx.	Mounting Rotation <sup>1</sup> Starting method Approx. weight <sup>3</sup>		and CCW) Line	
Dels         2           Tequency [Hz]         60           Rated voltage [V]         230/460           Atted current [A]         57.0728.5           R. Amperes [A]         4.73/237          R. C [A]         8.3x(Code J)           No load current [A]         20.1/10.0           Stated speed [RPM]         3530           Sign [%]         1.94           Rec [A]         4.73/237           Stated speed [RPM]         3530           Sign [%]         1.94           Stated speed [RPM]         340           Service factor         1.15           Ferrore factor         1.15           Ferrore factor         1.15           Ferrore factor         1.45 (cold) 8s (hot)           Service factor         1.60%           Service factor         1.60%           Efficiency (%)         50%         91.7           100%         0.85           Drive end Non drive end         Service factor           Sealing         VRing         Without           Bearing type         6309 2.03 6208 2.03         Max. compression         :330 kgf           Lubrication interval         1.7577 h         20000 h         Lubrication indestanced.			25					
Frequency [Hz]         60								
Saled vorter [A]         230/460           Ared current [A]         67.0/28.5          R. Amperes [A]         473/237          R. [A]         8.3x(Code J)           No load current [A]         20.1/10.0           Sated Speed [RPM]         3530           Silp [%]         1.94           Sated Speed [RPM]         3530           Silp [%]         1.94           Sated Speed [RPM]         340           Sreakdown torque [%]         340           Service factor         1.15           Emperature rise         80 K           Socker fort fortime         144 (cold) 8 (hot)           Noise level?         75.0 dB(A)           Efficiency (%)         55%           25%			_					
Rated current [A]         57.0/28.5          R. Amperes [A]         473/237          R. Amperes [A]         8.3x(Code J)          N. Anter State Sta								
R. Amperes [A]       473/237        RC [A]       8.3x(Code J)        RC [A]       8.3x(Code J)        No load current [A]       20.1/10.0			57.0/28.5					
RC [A]         8.3x(Code J)           Vs load current [A]         20.110.0           Staded speed [RPM]         3530           Stade speed [RPM]         3530           Stade speed [RPM]         5.14           cocked rotor torque [%]         240           Stade torque [%]         340           Service factor         1.15           Fernyerature rise         400 K           Cocked rotor time         148 (cold) 8 (hot)           Voice level         75.0 dB(A)           Efficiency (%)         25%           25%			473/237					
No load current [A]       20.1/10.0         Rated speed [RPM]       3530         Stated speed [RPM]       3530         Stated speed [RPM]       5.14         Cocked rotror torque [%]       240         Atted forque [%]       340         Service factor       1.15         Emperature rise       80 K         Cocked rotor time       143 (cold) 88 (hot)         Noise level?       75.0 dB(A)         Service factor       50%         Efficiency (%)       50%         75%       91.7         100%       91.7         25%	LRC [A]							
Rated speed [RPM]         3530		]						
Slip [%]         1.94           Rated torque [kg/m]         5.14           Cocked rotor torque [%]         340           Service factor         1.15           Fernyce factor         1.15           Fernyce factor         1.15           Fernyce factor         1.15           Cocked rotor time         144 (cold) 8s (hot)           Looke level*         25%           Z5%			3530					
Rated torque [kg/m]         5.14	Slip [%]		1.94					
cocked rotor torque [%]         240           Breakdown torque [%]         340           Breakdown torque [%]         340           Bervice factor         1.15           Femperature rise         80 K           cocked rotor time         14s (cold) 8s (hot)           Noise level*         75.0 dB(A)           25%	Rated torque [kgfn							
Service factor       1.15         Iemperature rise       80 K         Cocked rotor time       14s (cold) 8s (hot)         Noise level*       75.0 dB(A)         Efficiency (%)       50%         50%       91.0         75%       91.7         100%       91.7         25%	Locked rotor torqu	e [%]	240					
This revision replaces and cancel the previous one, which must be eliminated.     This revision replaces and cancel the previous one, which must be eliminated.     This revision replaces and cancel the previous one, which must be eliminated.     These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA       Notes     VR and the tolerance of +3dB(A).     These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA       Modifier     Mobil Polyrex EM       Notes     Changes Summary       Performed by     Changes Summary	Breakdown torque [%]		340					
cocked rotor time       14s (cold) 8s (hot)         Voise level*       75.0 dB(A)         Efficiency (%)       50%       91.0         75%       91.7         100%       91.7         25%       50%         Power Factor       50%         75%       0.85         100%       0.89         Bearing type       6309 2 C3         Sealing       :         Ubrice end Non drive end Bearing Seal         Lubrication interval       :         13 g       8 g         Lubricant amount       :         13 g       8 g         UsABLE @208V 63.0A SF 1.00 SFA 63.0A    This revision replaces and cancel the previous one, which must be eliminated. (1) Looking the motor from the shaft end. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. (4) At 100% of full load.        This revision full load.         Rev.       Changes Summary       Performed       Checked by         Performed by	Service factor							
Noise level*         75.0 dB(A)         Image: Constraint of the state and the previous one, which must be eliminated.         25%         Image: Constraint of the state and the previous one, which must be eliminated.         Power Factor         25%         Image: Constraint of the state and the previous one, which must be eliminated.         Foundation loads         Max. traction         219 kgf           Notes         USABLE @208V 63.0A SF 1.00 SFA 63.0A         This revision replaces and cancel the previous one, which must be eliminated.         These are average values based on tests with sinusoidal mover supply, subject to the tolerances stipulated in NEMA MG-1.           (2) Measured at 1m and with tolerance of +33B(A).         These are average values based on tests with sinusoidal mover supply, subject to the tolerances stipulated in NEMA MG-1.           (2) Measured at 1m and with tolerance of +33B(A).         Yerformed         Checked by         Performed         Checked         Date	Temperature rise							
Efficiency (%)     25%     91.0       75%     91.7	Locked rotor time							
Efficiency (%)         50%         91.0           75%         91.7	Noise level <sup>2</sup>		75.0 dB(A)					
Efficiency (%)       75%       91.7         100%       91.7         100%       91.7         100%       91.7         25%								
100%     91.7       100%     91.7       25%	Efficiencv (%)							
Power Factor       25%       0.77								
Power Factor       50%       0.77       Image: Constraint of the state of the previous one, which must be eliminated.         Bearing type       :       6309 Z C3       6208 Z C3       Max. traction       : 219 kgf         Bearing type       :       6309 Z C3       6208 Z C3       Max. traction       : 219 kgf         Sealing       :       V'Ring       Without       Max. compression       : 330 kgf         Lubrication interval       :       15797 h       20000 h       Max. compression       : 330 kgf         Notes       USABLE @208V 63.0A SF 1.00 SFA 63.0A       Mobil Polyrex EM       Most       Max. traction interval       : 300 kgf         This revision replaces and cancel the previous one, which must be eliminated.       Mobil Polyrex EM       Most supply, subject to the tolerances stipulated in NEMA MG-1.         (2) Measured at 1m and with tolerance of +3dB(A).       (3) Approximate weight subject to changes after manufacturing process.       MG-1.         (4) At 100% of full load.       Eve       Changes Summary       Performed       Checked       Date         Performed by			91.7					
Power Factor       75%       0.85         100%       0.89       Image: Sealing       Drive end       Non drive end       Foundation loads         Bearing type       :       6309 Z C3       6208 Z C3       Max. traction       : 219 kgf         Sealing       :       V'Ring       Without       Bearing Seal       Max. compression       : 330 kgf         Lubrication interval       :       15797 h       20000 h       Max. compression       : 330 kgf         Lubricant amount       :       13 g       8 g       Mobil Polyrex EM       Max. compression       : 330 kgf         Notes       USABLE @208V 63.0A SF 1.00 SFA 63.0A       These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.         (1) Looking the motor from the shaft end.       (2) Measured at 1m and with tolerance of +3dB(A).       MG-1.         (3) Approximate weight subject to changes after manufacturing process.       (4) At 100% of full load.       Performed       Checked       Date         Performed by			0.77					
IO0%       0.89         Drive end Bearing type       Drive end 6309 Z C3       Non drive end 6309 Z C3       Foundation loads Max. traction       Max. traction         Sealing       :       V'Ring       Without Bearing Seal       Max. compression       : 330 kgf         Lubrication interval       :       15797 h       20000 h       Max. compression       : 330 kgf         Lubricant amount       :       13 g       8 g       Max. compression       : 330 kgf         Notes       USABLE @208V 63.0A SF 1.00 SFA 63.0A       Mobil Polyrex EM       These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.         This revision replaces and cancel the previous one, which must be eliminated.       These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.         (2) Measured at 1m and with tolerance of +3dB(A).       MG-1.         (3) Approximate weight subject to changes after manufacturing process.       Performed       Checked       Date         (4) At 100% of full load.       Performed       Checked       Date         Performed by       Page       Revision	Power Factor							
Drive end Bearing type       Drive end 6309 Z C3       Foundation loads Max. traction       Sealing         Sealing       V'Ring       Without Bearing Seal       Max. compression       Status         Lubrication interval       15797 h       20000 h       Max. compression       Status         Lubricant amount       13 g       8 g       Max. compression       Status       Status         Notes       USABLE @208V 63.0A SF 1.00 SFA 63.0A       Max. compression       These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.         This revision replaces and cancel the previous one, which must be eliminated.       These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.         (2) Measured at 1m and with tolerance of +3dB(A).       MG-1.         (3) Approximate weight subject to changes after manufacturing process.       MG-1.         Rev.       Changes Summary       Performed       Checked       Date         Performed by       Page       Revision								
Bearing type       :       6309 Z C3       6208 Z C3       Max. traction       : 219 kgf         Sealing       :       V'Ring       Without Bearing Seal       Max. traction       : 330 kgf         Lubrication interval       :       15797 h       20000 h       Max. traction       : 330 kgf         Lubricant amount       :       13 g       8 g       g       Max. traction       : 330 kgf         Notes       USABLE @208V 63.0A SF 1.00 SFA 63.0A       Mobil Polyrex EM       Max. traction       : 30 kgf         This revision replaces and cancel the previous one, which must be eliminated.       These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA (1) Looking the motor from the shaft end.       MG-1.         (2) Measured at 1m and with tolerance of +3dB(A).       MG-1.       MG-1.         (3) Approximate weight subject to changes after manufacturing process.       Performed       Checked       Date         Rev.       Changes Summary       Performed       Checked       Date         Performed by       Page       Revision		100%						
Sealing       :       V'Ring       Without Bearing Seal         Lubrication interval       :       15797 h       20000 h         Lubricant amount       :       13 g       8 g         Lubricant type       :       Mobil Polyrex EM         Notes       USABLE @208V 63.0A SF 1.00 SFA 63.0A         This revision replaces and cancel the previous one, which must be eliminated.       These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA (3) Approximate weight subject to changes after manufacturing process.       MG-1.         Rev.       Changes Summary       Performed       Checked       Date         Performed by	Pooring turns							
Bearing Seal         Lubrication interval       15797 h       20000 h         Lubricant amount       13 g       8 g         Lubricant type       Mobil Polyrex EM         Notes       USABLE @208V 63.0A SF 1.00 SFA 63.0A         This revision replaces and cancel the previous one, which must be eliminated.       These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA (1) Looking the motor from the shaft end.         (2) Measured at 1m and with tolerance of +3dB(A).       MG-1.         (3) Approximate weight subject to changes after manufacturing process.       MG-1.         (4) At 100% of full load.       Performed       Checked         Performed by       Page       Revision				inax: au	Ŭ			
Lubrication interval       :       15797 h       20000 h         Lubricant amount       :       13 g       8 g         Lubricant type       :       Mobil Polyrex EM         Notes       USABLE @208V 63.0A SF 1.00 SFA 63.0A         This revision replaces and cancel the previous one, which must be eliminated.       These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA (1) Looking the motor from the shaft end.         (2) Measured at 1m and with tolerance of +3dB(A).       (3) Approximate weight subject to changes after manufacturing process.         (4) At 100% of full load.       MG-1.         Performed by       Performed         Checked by       Page	Sealing				npression	: 330 kgt		
Lubricant amount       :       13 g       8 g         Lubricant type       :       Mobil Polyrex EM         Notes       USABLE @208V 63.0A SF 1.00 SFA 63.0A         This revision replaces and cancel the previous one, which must be eliminated.       These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA (1) Looking the motor from the shaft end.         (2) Measured at 1m and with tolerance of +3dB(A).       MG-1.         (3) Approximate weight subject to changes after manufacturing process.       MG-1.         (4) At 100% of full load.       Performed       Checked         Performed by       Page       Revision	Lubrication inten	/al						
Lubricant type       :       Mobil Polyrex EM         Notes       USABLE @208V 63.0A SF 1.00 SFA 63.0A         This revision replaces and cancel the previous one, which must be eliminated.       These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA (1) Looking the motor from the shaft end.         (2) Measured at 1m and with tolerance of +3dB(A).       MG-1.         (3) Approximate weight subject to changes after manufacturing process.       MG-1.         (4) At 100% of full load.       Performed       Checked       Date         Performed by       Page       Revision				•				
Notes       USABLE @208V 63.0A SF 1.00 SFA 63.0A         This revision replaces and cancel the previous one, which must be eliminated.       These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA (1) Looking the motor from the shaft end.         (2) Measured at 1m and with tolerance of +3dB(A).       MG-1.         (3) Approximate weight subject to changes after manufacturing process.       MG-1.         (4) At 100% of full load.       Performed       Checked       Date         Performed by       Page       Revision								
must be eliminated.       power supply, subject to the tolerances stipulated in NEMA         (1) Looking the motor from the shaft end.       manufacturing process.         (2) Measured at 1m and with tolerance of +3dB(A).       MG-1.         (3) Approximate weight subject to changes after manufacturing process.       MG-1.         (4) At 100% of full load.       Performed       Checked       Date         Performed by       Page       Revision		63.0A SF 1.	00 SFA 63.0A					
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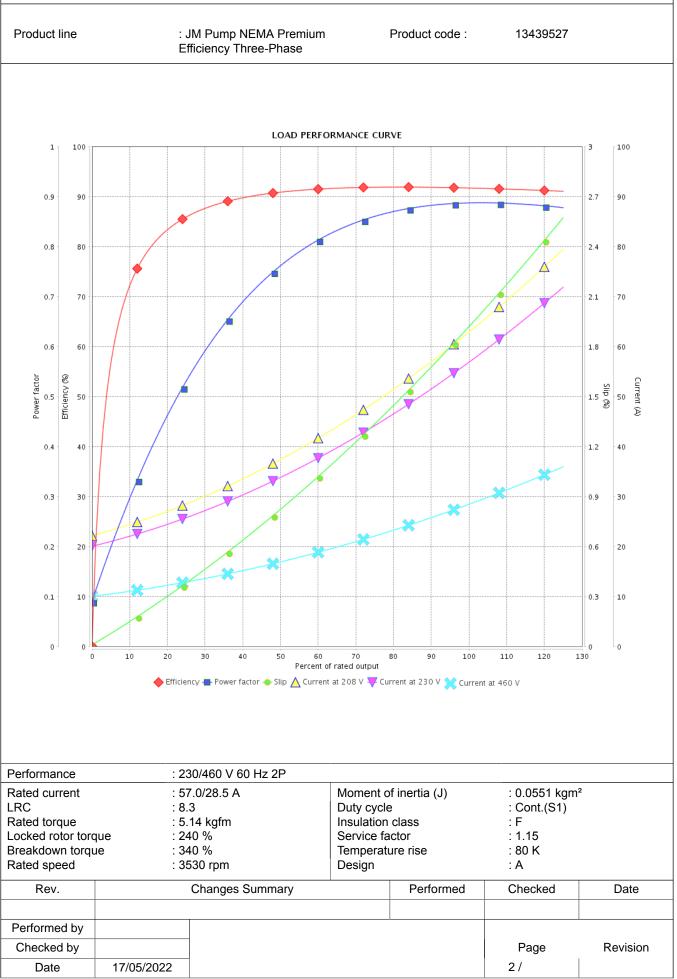
## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

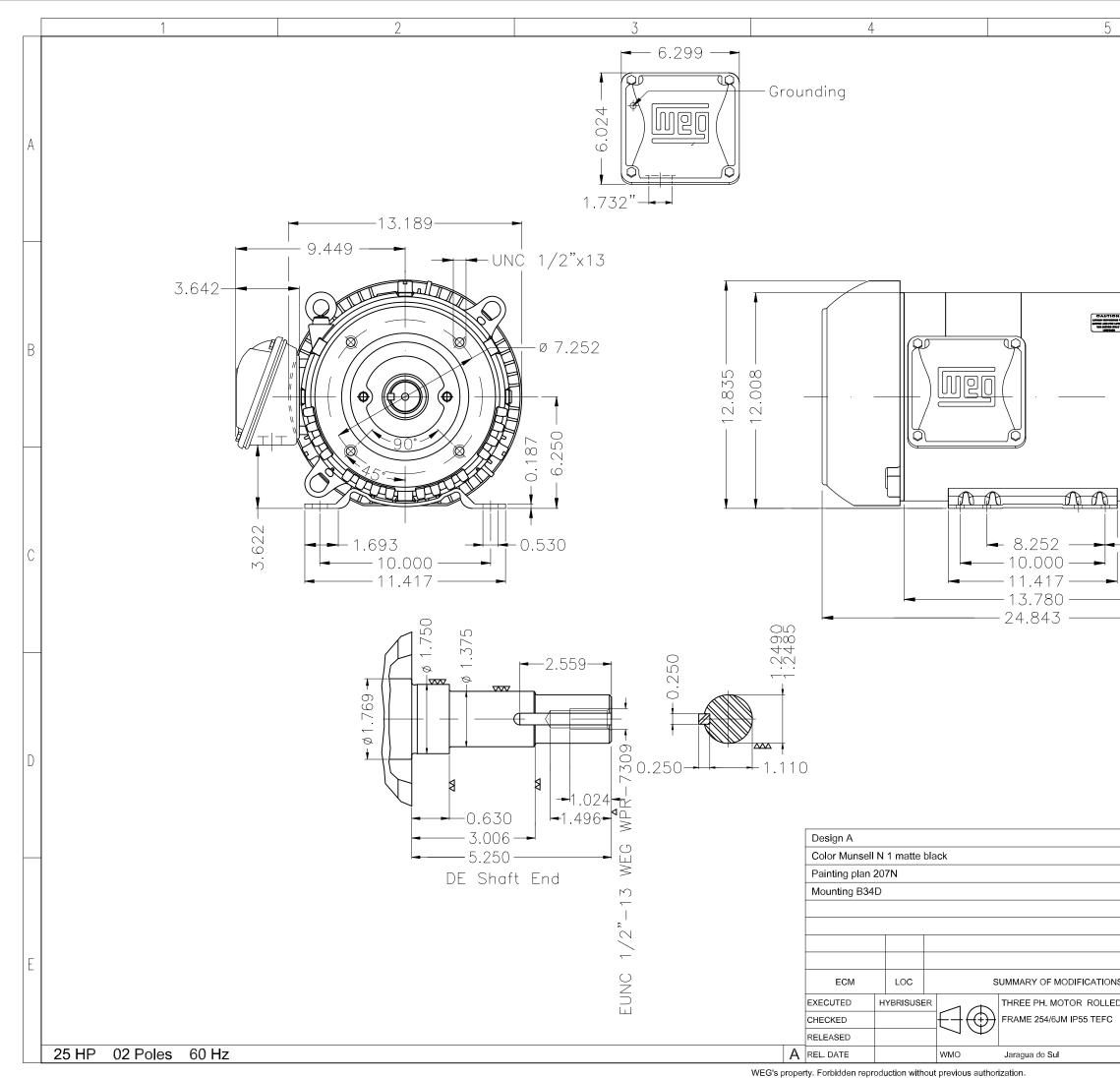
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Customer



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