## DATA SHEET

## Single Phase Induction Motor - Squirrel Cage

:



## Customer

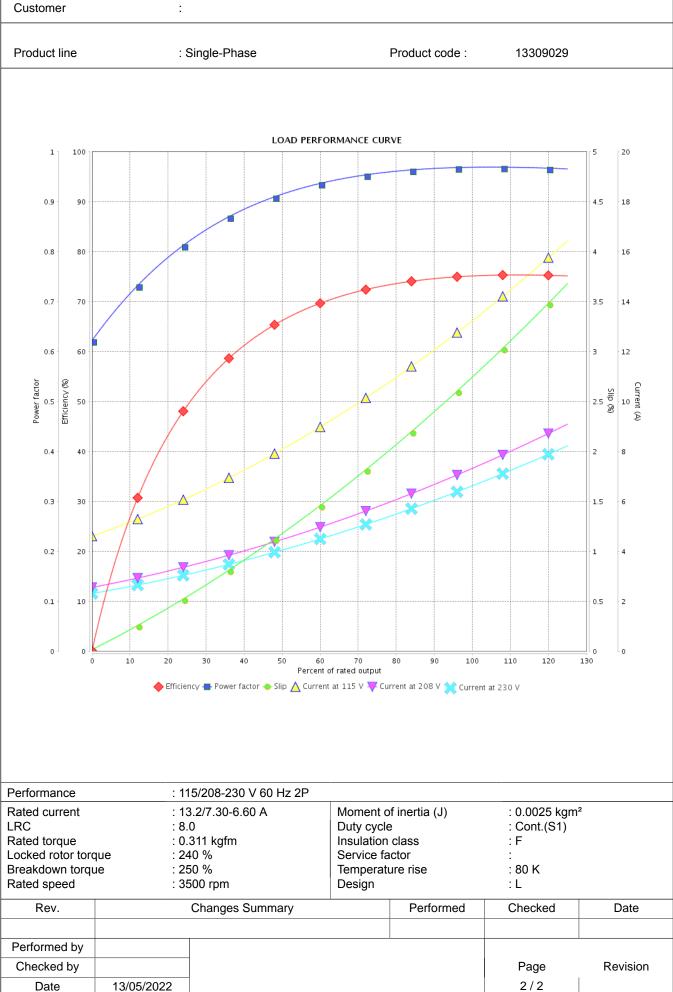
Efficiency (%)         25%         64.0           50%         66.0           75%         73.0           100%         75.0           25%         0.63           50%         0.92           75%         0.92           75%         0.92           75%         0.95           100%         0.97           75%         0.97           Sealing         :         6204 ZZ         6202 ZZ           Sealing         :         V'Ring         Without Bearing Seal         Max. traction         : 16 kgf           Lubrication interval         :         -         -         -           Lubricant amount         :         -         -         -           Lubricant type         :         Mobil Polyrex EM         -         -	Product line		: Single-Phase		Product code :	13309029				
Poles         2           requency [Hz]         60           tated vorrent [A]         13 2/7.30-6.60           R. Amperes [A]         100/68.4.52.8           RC [A]         8.0x(Code K)           to load current [A]         4.60/19.82.30           tated speed [RPM]         3500           tated speed [RPM]         3500           tated speed [RPM]         2.78           tated speed [RPM]         0.311           ocked rotor torque [%]         250           tervice factor         80 K           emperature rise         80 K           ocked rotor torque [%]         255%           foiles level?         68.0 dB(A)           toise level?         50%           foiles level?         68.0 dB(A)           toise level?         50%           foiles level?         50%           foiles level?         64.0           50%         0.92           75%         0.92           75%         0.92           foile         50%           100%         75.0           100%         0.97           toild kar traction         :16 kgf           mastracing proces         0.97	Insulation class Duty cycle Ambient temperature Altitude Protection degree		: F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55	Mountin Rotation Starting Approx.	ng n¹ ⊨method ⊨weight³	: F-1 : Both (CW ; : Direct On I : 16.6 kg	and CCW) Line			
bites         2           requency [Hz]         60           tated vortent [A]         115/208-230           Raid current [A]         13 2/7.30-6.60           R. Amperes [A]         100/68.4-52.8           RC [A]         8.0x(Code K)           to load current [A]         4.60/19.82-30           tated speed [RPM]         3500           tated speed [RPM]         0.311           ocked rotor torque [%]         2.78           tated speed [RPM]         0.311           ocked rotor torque [%]         250           terwise factor         80 K           emperature rise         80 K           ocked rotor torque [%]         250           terficiency (%)         75%           75%         66.0           75%         73.0           100%         75.0           25%         0.63           50%         0.92           75%         0.92           75%         0.92           75%         0.92           75%         0.92           100%         75.0           20%         0.93           100%         0.97           100%         0.97	•				1.5					
tated origing [V]         115/208-230           tated current [A]         13.2/7.30-6.60           R. Amperes [A]         100/668.452.8           RC [A]         8.0x(Code K)           to load current [A]         4.60/1.98-2.30           tated speed [RPM]         3500           tated torque [kgfm]         0.311           ocked foor forque [%]         27.8           tated torque [kgfm]         0.311           ocked foor forque [%]         250           tervice factor         80 K           cocked rotor time         80 K           toke level *         80 K           cocked rotor time         68.0 dB(A)           toke level *         68.0 dB(A)           25%         0.63           100%         75.0           25%         0.63           100%         0.92           75%         0.95           100%         0.97           100%         0.92           75%         0.95           100%         0.92           75%         0.95           100%         0.97           100%         0.97           100%         0.96           100%         0.9										
iated current [A]       13.277.30-6.60         R. Amperes [A]       106/68.4.52.8         RC [A]       8.0x(Code K)         io load current [A]       4.60/1.98.2.30         lated speed [RPM]       3500         lip [%]       2.78         tated torque [%]       240         reakdown torque [%]       240         reakdown torque [%]       260         ervice factor       80 K         emperature rise       80 K         cocked rotor time       12s (cold) 7s (hot)         loise level <sup>2</sup> 64.0         25%       66.0         75%       73.0         100%       75.0         100%       75.0         25%       0.63         50%       0.92         75%       0.95         100%       0.92         75%       0.95         100%       0.92         75%       0.92         75%       0.92         75%       0.92         75%       0.93         100%       0.97         Ubrication interval       :         Lubrication interval       :         Lubrication interval	requency [Hz]									
R. Amperes [A]       106/68 4-52.8         RC [A]       8.0x(Code K)         lo load current [A]       4.60/1.96-2.30         lated speed [RPM]       3500         lig [%]       2.78         lated speed [RPM]       0.311         ocked rotor torque [%]       240         reakdown torque [%]       250         revice factor       80 K         emperature rise       80 K         ocked rotor time       128 (cold) 75 (hot)         loise level?       68.0 dB(A)         Efficiency (%)       50%         25%       0.63         folse level?       68.0         25%       0.63         folse level?       0.92         75%       0.33         100%       0.92         75%       0.92         100%       0.92         75%       0.92         100%       0.92         75%       0.92         100%       0.92         75%       0.92         loise level?       6204 ZZ<6202 ZZ										
RC [A]         8.0x(Code K)           ialed speed (RPM)         3500           ialed speed (RPM)         0.311           cocked rotor torque [%]         2.78           ialed torque [%]         240           reakdown torque [%]         250           iervice factor         80 K           emperature rise         80 K           cocked rotor torque [%]         250           iervice factor         80 K           emperature rise         80 K           cocked rotor time         125 (cold) 7s (hot)           loise level?         68.0 dB(A)           iose level?         68.0 dB(A)           form factor         75%           75%         73.0           100%         75.0           25%         0.63           power Factor         50%           75%         0.95           100%         0.92           Sealing         :           Ubrication interval         :           Lubrication interval         :           Lubrication interval         :           Lubrication interval         :           12.         Mobil Polyrex EM           Notes         210 kasure at tm and with toler										
to load current [A]     4 60/1 98-2 30       tated speed [RPM]     3500       silp [%]     2.78       tated torque [kgfm]     0.311       cocked rotor torque [%]     240       service factor     250       service factor     80 K       cocked rotor torque [%]     250       isservice factor     68.0 dB(A)       isse level*     80 K       cocked rotor time     12s (cold) 7s (hot)       lose level*     68.0 dB(A)       25%     64.0       50%     66.0       75%     73.0       100%     75.0       100%     0.92       75%     0.95       100%     0.92       75%     0.95       100%     0.97       Sealing     : V'Ring Without Bearing Seal       Lubrication interval     :       Lubricatin threatiff and the dend.       (2) Measured										
Saled speed [RPM]       3500         Silp [%]       2.78         Saled torque [kgfm]       0.311         ocked rotor torque [%]       240         reakdown torque [%]       250         emperature rise       80 K         cocked rotor time       12s (cold) 7s (hot)         cocked rotor time       50%         Efficiency (%)       25%         25%       66.0         75%       73.0         100%       75.0         25%       0.63         75%       0.95         100%       0.97         Power Factor       50%         50%       6204 ZZ         6204 ZZ       6202 ZZ         Sealing       V'Ring Without         Lubrication interval       -         Lubrication interval       -         Lubrication interval       -         Lubricatin amount       -         -       -         Lubricatin type       Mobil Polyrex EM         Notes       Mobil Polyrex EM         Notes       Mobil Ioad.         Rev.       Changes Summary         Performed by       -         Checked by       Page <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td>		1								
Atted torque [kgfm]       0.311         ocked rotor torque [%]       240         read/own torque [%]       250         iervice factor       80 K         cervice factor       80 K         cervice factor       80 K         cervice factor       68.0 dB(A)         ioise level?       68.0 dB(A)         Efficiency (%)       25%         25%       0.63         75%       75.0         25%       0.63         75%       0.92         75%       0.95         100%       0.92         75%       0.95         100%       0.97         Earring type       Cick 22Z         Sealing       VRing Without         Lubrication interval       -         10       -         10       Mobil Polyrex EM         Notes       Mobil Polyrex EM         Mcs       Mobil Polyrex EM         Notes       -         Performed by       -         Checked by <td></td> <td></td> <td></td> <td></td> <td>3500</td> <td></td> <td></td>					3500					
ocked rotor torque [%]         240           breakdown torque [%]         250           erwice factor         30 K           erwice factor time         125 (cold) 7s (hot)           ooked rotor time         68.0 dB(A)           Efficiency (%)         50%         64.0           50%         66.0         75%           75%         73.0         75.0           100%         0.92         75%           75%         0.95         0.97           25%         0.63         0.97           100%         0.97         0.97           100%         0.97         0.97           100%         0.97         0.97           100%         0.97         0.97           Sealing         V/Ring         Without           Bearing type         : 6204 ZZ         6202 ZZ           Sealing         : V/Ring         Without           Bearing type         : main Seal         Foundation loads           Lubrication interval         :         -           Lubrication timerval         :         -           (1) Looking the motor from the shaft end.         (2) Measured at 1m and with tolerance of +3dB(A).           (3) Approximate wei										
bit is revision replaces and cancel the previous one, which must be eliminated.         250           This revision replaces and cancel the previous one, which must be eliminated.         25%         6204 ZZ           Notes         0.97 Second 2.33 kgf         0.97 Second 2.33 kgf           This revision replaces and cancel the previous one, which must be eliminated.         100 kgr + 33 kgf         100 kgr + 33 kgf           Notes         Kervice and the top of the t										
Service factor       80 K         emperature rise       80 K         cocked rotor time       12s (cold) 7s (hot)         loise level?       68.0 dB(A)         Efficiency (%)       50%       66.0         75%       73.0         100%       75%         25%       0.63         25%       0.92         75%       0.95         100%       0.92         75%       0.95         100%       0.92         75%       0.95         100%       0.97         Dever Factor       75%         75%       0.95         100%       0.97         Dive end       Kon drive end         Sealing       VRing       Without         Bearing type       6204 ZZ       6202 ZZ         Lubrication interval       -       -         Lubricatin amount       -       -         Lubricatin time       Mobil Polyrex EM         Notes       Mobil Polyrex EM         This revision replaces and cancel the previous one, which must be eliminated.       10 work supply, subject to the tolerances stipulated in NEMA (G-1.         (3) Approximate weight subject to changes after manufacturing process.       -<										
emperature rise       80 K         cocked rotor time       12s (cold) 7s (hot)         lose level?       68.0 dB(A)         Efficiency (%)       50%       64.0         25%       64.0         75%       73.0         100%       75.0         9ower Factor       25%       0.63         50%       0.92         75%       0.97         100%       0.97         Sealing       VRing       Without         Bearing type       6204 ZZ       6202 ZZ         Sealing       VRing       Without         Bearing type       6204 ZZ       6202 ZZ         Notics       Bearing Seal       Lubrication interval       16 kgf         Lubrication interval       1       -       -         Lubrication the readult       Wobil Polyrex EM       Max. compression       : 33 kgf         Notes       Mobil Polyrex EM       Mcs.       MG-1.       MG-1.         23 Approximate weight subject to changes after manufacturing process.       (4) At 100% of full load.       Performed       Changes Summary       Performed       Checked       Date         Performed by		8[%]			250					
ooked rotor time       12s (cold) 7s (hot)         loise level*       68.0 dB(A)         Efficiency (%)       50%         75%       75%         Power Factor       25%         75%       0.92         75%       0.92         75%       0.92         75%       0.95         100%       0.97         Bearing type       66204 ZZ 6202 ZZ         Sealing       V'Ring         Ubrication interval       -         Lubrication interval       -         Lubrication interval       -         Lubrication tinterval       -         100king 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.       for the shaft end.         (4) At 100% of full load.       Changes Summary       Performed       Checked by         Performed by					80 K					
loise level?       68.0 dB(A)         Efficiency (%)       50%       64.0         50%       66.0         75%       73.0         100%       75.0         25%       0.63         Power Factor       50%       0.92         75%       0.92         75%       0.92         100%       0.97         Bearing type       6204 ZZ       6202 ZZ         Sealing       V'Ring Without         Bearing type       6204 ZZ       6202 ZZ         Sealing       V'Ring Without         Bearing type       100%       0.97         Lubrication interval       -       -         Lubrication interval       -       -         Lubrication treplaces and cancel the previous one, which must be eliminated.       Mobil Polyrex EM         Notes       Mobil Polyrex EM       These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEM/ MG-1.         (2) Measured at 1m and with tolerance of +3dB(A).       MG-1.         (2) Measured at 1m and with tolerance of +3dB(A).       MG-1.         (4) At 100% of full load.       Performed       Checked         Performed by       Page       Revision										
Efficiency (%)       25%       64.0         50%       66.0         75%       73.0         100%       75.0         25%       0.63         50%       0.92         75%       0.92         75%       0.92         75%       0.92         75%       0.92         75%       0.92         75%       0.95         100%       0.97         Bearing type       6204 ZZ       6202 ZZ         Sealing       VRing       Without Bearing Seal         Lubrication interval       -       -         Lubricant amount       -       -         Lubricant type       Mobil Polyrex EM       Max. traction       : 16 kgf         Notes       -       -       -       -         (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.       -       -       -       -         Performed by       -       -       -       -       -         Page       Revision       -       -       -	Noise level <sup>2</sup>			12.						
Efficiency (%)       75%       73.0         100%       75.0         Power Factor       50%       0.63         50%       0.92         75%       0.92         75%       0.92         75%       0.92         75%       0.92         75%       0.97         Bearing type       6204 ZZ       6202 ZZ         Sealing       V'Ring       Without         Bearing Seal       -       -         Lubrication interval       -       -         Lubricant amount       :       -       -         Lubricant type       :       Mobil Polyrex EM       Max. traction       : 16 kgf         Notes       Mobil Polyrex EM       Mobil Polyrex EM       Max. traction       : 33 kgf         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.       Performed       Checked       Date         Performed by		25%								
100%     75.0       25%     0.63       50%     0.92       75%     0.95       100%     0.97       Bearing type     6204 ZZ       6204 ZZ     6202 ZZ       Max. traction     :16 kgf       Max. traction interval     :       Lubrication interval     :       Lubricant amount     :       Lubricant amount     :       100%     .       Mobil Polyrex EM   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. Text Changes Summary   Performed by	Efficiency (%)									
Power Factor       25%       0.63         50%       0.92         75%       0.95         100%       0.97         Bearing type       : 6204 ZZ       6202 ZZ         Sealing       : V'Ring       Without         Bearing type       : 6204 ZZ       6202 ZZ         Max. traction       : 16 kgf         Max. traction       : 33 kgf         Lubrication interval       : -         :       -         Lubricant amount       : -         :       -         Lubricant type       : Mobil Polyrex EM         Notes       These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEM4 MG-1.         (2) Measured at 1m and with tolerance of +3dB(A).       model of the subject to changes after manufacturing process.         (4) At 100% of full load.       Changes Summary       Performed       Checked by         Performed by										
Power Factor       50%       0.92         75%       0.95         100%       0.97         Bearing type       :       6204 ZZ       6202 ZZ         Sealing       :       V'Ring       Without       Max. traction       :       16 kgf         Lubrication interval       :       -       -       -       Lubricant amount       :       33 kgf         Lubricant amount       :       -       -       -       -       -       -         Lubricant type       :       Mobil Polyrex EM       Max. traction       :       33 kgf       -         Notes       -       -       -       -       -       -       -         Notes       - <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>										
Power Factor       75%       0.95         100%       0.97       0.97         Bearing type       :       6204 ZZ       6202 ZZ         Sealing       :       V'Ring       Without         Bearing Seal										
100%       0.97         Bearing type       :       6204 ZZ       6202 ZZ         Sealing       :       V'Ring       Without         Bearing type       :       6204 ZZ       6202 ZZ         Sealing       :       V'Ring       Without         Bearing type       :       6204 ZZ       6202 ZZ         Sealing       :       V'Ring       Without         Bearing Seal       :          Lubrication interval       :	Power Factor									
Drive end Bearing type       Drive end 6204 ZZ       Non drive end 6204 ZZ       Foundation loads Max. traction         Sealing       :       VRing       Without Bearing Seal         Lubrication interval       :       -         Lubricant amount       :       -         Lubricant type       :       Mobil Polyrex EM         Notes       Mobil Polyrex EM         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.         (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.       MG-1.         (4) At 100% of full load.       Performed       Checked         Rev.       Changes Summary       Performed       Checked         Performed by       Page       Revision										
Bearing type       :       6204 ZZ       6202 ZZ       Max. traction       :       16 kgf         Sealing       :       V'Ring       Without       Max. compression       :       33 kgf         Lubrication interval       :       -       -       -       -       Lubrication       :       33 kgf         Lubrication interval       :       -       -       -       -       -       -         Lubricant amount       :       -       -       -       -       -       -         Lubricant type       :       Mobil Polyrex EM       Mobil Polyrex EM       -       -       -         Notes       -       -       -       -       -       -       -       -         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).       -		10070	Drive end Non drive end	Foundat						
Lubrication interval       :       -       -         Lubricant amount       :       -       -         Lubricant type       :       Mobil Polyrex EM         Notes       Notes       Image: Constraint of the staff end.         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       Image: Changes Summary       Performed       Checked       Date         Performed by       Image: Checked by       Page       Revision	Sealing Lubrication interval Lubricant amount		: 6204 ZZ 6202 ZZ : V'Ring Without	Max. tra Max. co	ction					
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.         (1) Looking the motor from the shaft end.       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.         (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.       power supply, subject to the tolerances stipulated in NEMA         (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	Notes									
manufacturing process.       Performed       Checked       Date         Rev.       Changes Summary       Performed       Checked       Date         Performed by       Image: Checked by       Page       Revision	must be eliminate (1) Looking the m (2) Measured at 1	ed. notor from the 1m and with t	e shaft end. olerance of +3dB(A).	power s						
Performed by     Page     Revision	manufacturing pro (4) At 100% of ful	ocess.			1	1	1			
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## LOAD PERFORMANCE CURVE

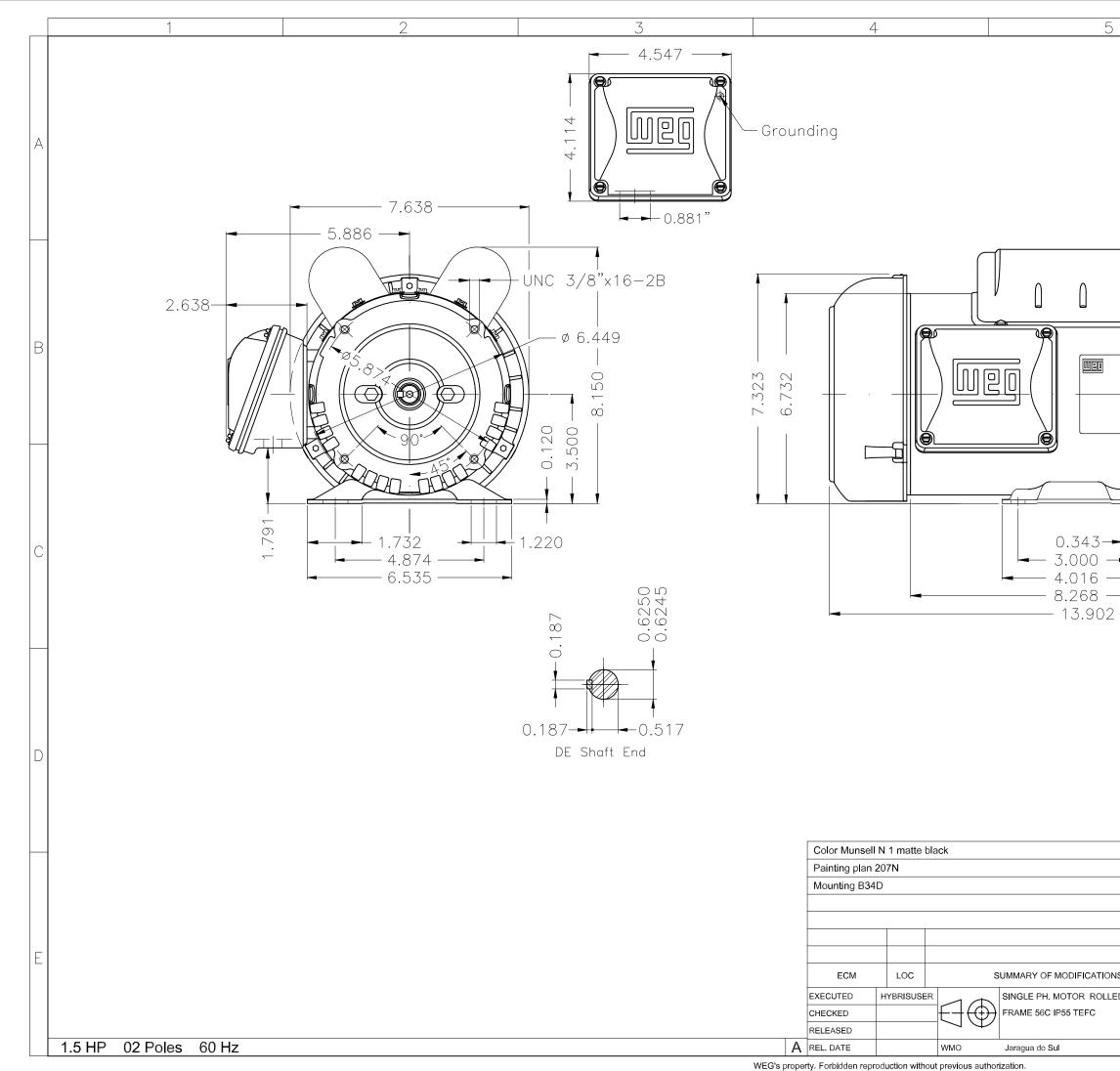
Single Phase Induction Motor - Squirrel Cage

Customer



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Product Engineering SHEET 1 / 1	)			6		
NS EXECUTED CHECKED RELEASED DATE VER ED STEEL PREVIEW WDD 00 ₩₽₽₽₽			• 0.157	-17   CC 4 8 		Dimensions in inches
NS EXECUTED CHECKED RELEASED DATE VER ED STEEL PREVIEW WDD 00 ₩₽₽₽₽						
NS EXECUTED CHECKED RELEASED DATE VER ED STEEL PREVIEW WDD 00 ₩₽₽₽₽						
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WDD     00       Product Engineering     SHEET     1 / 1	EDSIEEL			EW		
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