# DATA SHEET

### Three Phase Induction Motor - Squirrel Cage

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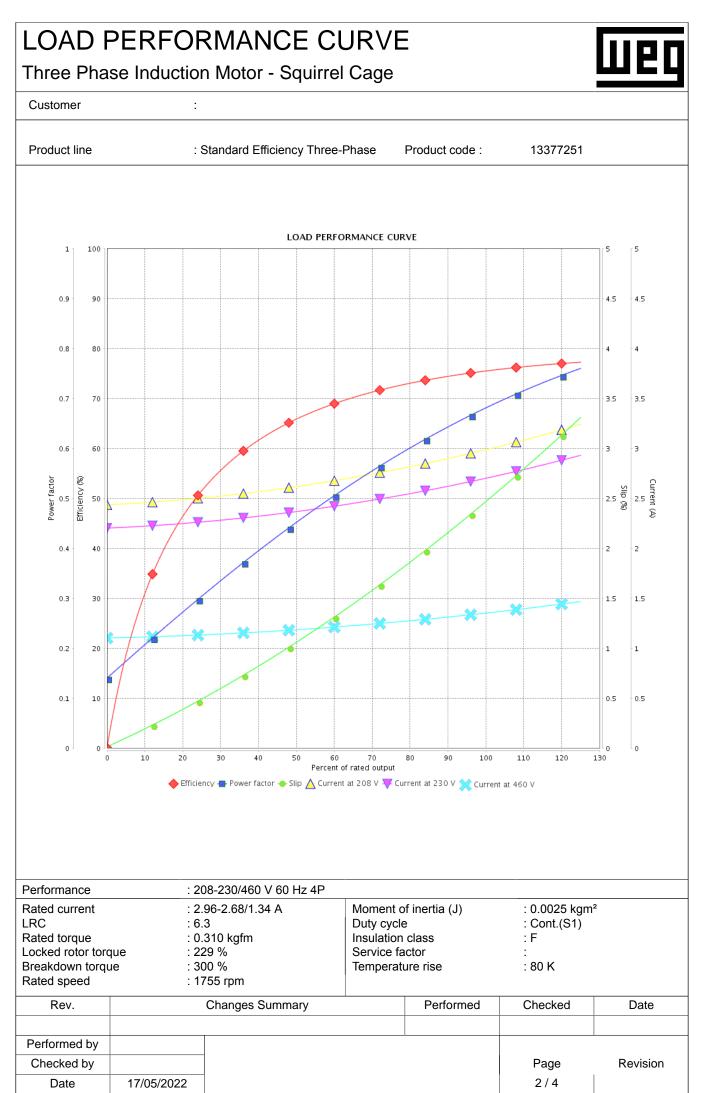
#### Customer

Insulation class         : F         Mounting         :: F-1           Duty cycle         : Cont.(S1)         Rotation1         :: Both (CW.           Anbient temperature         : -20°C to +40°C         Starting method         : Direct On I           Altitude         : 1000 m.a.s.l.         Approx. weight?         :: 9.6 kg           Output [HP]         0.75         0.75         ::           Poles         4         4         -           Frequency [H2]         60         50         ::           Rated voltage [V]         2.08-230/460         190/380         22           Rated ourrent [A]         2.92-230/460         190/380         22           IRC [A]         6.3x(Code K)         5.2x(Code H)         5.4x           No load current [A]         1.90-2.20/1.10         2.00/1.00         2.00           Iso darment [A]         1.90-2.20/1.10         2.00/1.00         2.00           Locked rotor torque [%]         229         160         :           Branck down torque [%]         3.00         :         :           Cocked rotor torque [%]         3.00         :         :           Emperature rise         8.0 K         8.0 K         :           Emporature rise		luct line	:	Standard Effic	ciency Three-Pl	nase	Product code :	13377251		
boles         4         4         4         4         4         Frequency [Hz]         60         53         51         51         50         51	Insulation class Duty cycle Ambient temperature		: : e :	: F : Cont.(S1) : -20°C to +40°C		Mounting Rotation <sup>1</sup> Starting method Approx. weight <sup>3</sup>		: F-1 : Both (CW : Direct On : 9.6 kg	: Both (CW and CCW) : Direct On Line	
Poles         4         4         4           Frequency [Hz]         60         50         Refrequency [Hz]         60         50           Rated voltage [V]         208-230/460         190/380         22           Rated voltage [V]         208-230/460         190/380         22           Rated current [A]         1.8.7-16.9/8.44         14.8/7.38         15           LRC [A]         6.3x(Code K)         5.2x(Code H)         5.4x           No load current [A]         1.90-2.20/1.10         2.00/1.00         2.6           Rated speed [RPM]         1.755         1435         -           Sip [%]         2.50         4.33         -           Cocked rotr forque [%]         2.29         160         -           Breakdown torque [%]         300         220         Service factor         -           Temperature rise         80 K         80 K         80 K         90 K         60           Noise level <sup>P</sup> 52.0 dB(A)         49.0 dB(A)         49.0         49.0           Efficiency (%)         25%         66.0         69.6         -         -           Power Factor         50%         0.45         0.55         -         -		t (HP1		0.75		0.75		0.75		
Frequency [Hz]         60         50           atted vortage [V]         208-230/460         190/380         22           atted vortage [A]         2.96-2.68/1.34         2.84/1.42         2.82           R.Amperes [A]         18.7-16.9/8.44         14.8/7.38         15           R.C [A]         6.3x(Code K)         5.2x(Code H)         5.4x           No load current [A]         1.90-2.20/1.10         2.00/1.00         2.65           atted tograp [KPM]         1755         1435         -           atted torque [Kgfm]         0.310         0.379         C           ocked rotor torque [%]         229         160         -           strackdown torque [%]         300         220         -           Service factor         80 K         80 K         80 K         -           remperature rise         80 K         80 K         -         -           cocked rotor torque [%]         22%         -         -         -           fefficiency (%)         50%         66.0         69.6         -         -           fefficiency (%)         25%         620.3 Z         6203 Z         620.4 5         .         -           Power Factor         75% <td< td=""><td></td><td>.[]</td><td></td><td colspan="2"></td><td></td><td></td><td></td><td>4</td></td<>		.[]							4	
Rated voltage [V]         208-320/460         190/380         22           Rated current [A]         2.96-2.68/1.34         2.8/1.42         2.6           LR. Amperes [A]         18.7-16.98.44         14.8/7.38         15           LRC [A]         6.3x(Code K)         5.2x(Code H)         5.4x           No load current [A]         1.90-2.20/1.10         2.00/1.00         2.6           Rated speed [RPM]         1.755         1435         2.6           Rated torque [kgfm]         0.310         0.379         0           Locked rotor torque [%]         229         160         30           Service factor         1.15         1         1           Erficiency (%)         300         220         3           Service factor         1.15         1         1           Locked rotor time         23s (cold) 13 (hot)         0s (cold) 0s (hot)         0s (cold) 0s (hot)           Noise level?         250.0 B[A]         49.0 dB[A]         49.0           Power Factor         50%         66.0         69.6         60.7           75%         72.0         74.1         1         1           Lubrication interval         -         -         -         1		ency [Hz]					50		50	
Rated current [A]         2.962.68/1.34         2.84/1.42         2.26           L. R. Amperes [A]         18.7-16.9/8.44         14.8/7.38         15           RC [A]         6.3X(Code K)         5.2X(Code H)         5.4X           No load current [A]         1.90-2.20/1.10         2.00/1.00         2.6           Rated speed [RPM]         1755         1435         5           Sip [%]         2.50         4.33         5           Code dord corrent [A]         0.310         0.379         0           Locked rotor torque [%]         229         160         6           Breakdown torque [%]         300         220         5           Locked rotor time         238 (cold) 13s (hot)         0s (cold) 0s (hot)         0s (cold) 0s (hot)         0s (cold) 0s (hot)           Locked rotor time         238 (cold) 13s (hot)         0s (cold) 0s (hot)	/]						190/380	2	20/415	
IRC [A]         6.3x(Code K)         5.2x(Code H)         5.4x           No load current [A]         1.90-2.20/1.10         2.00/1.00         2.6           Rated speed [RPM]         1755         1435         -           Silp [%]         2.50         4.33         -           Cocked roto rorque [%]         229         160         -           Breakdown torque [%]         300         220         -           Service factor         1.15         -         -           Emperature rise         80 K         80 K         0 s (cold) 0s (hot)         0s (cold) 0s (hot)           Noise level <sup>2</sup> 52.0 dB(A)         49.0 dB(A)         49.0           Efficiency (%)         25%         -         -           25%         -         -         -           Power Factor         50%         66.0         69.6         -           75%         72.0         74.1         -         -           100%         0.58         0.69         -         -           90wer Factor         50%         0.45         0.55         -           100%         0.68         0.79         -         -           Lubricatin interval         -							2.84/1.42	2.0	85/1.51	
No load current [A]         1.90-2.20/1.10         2.00/1.00         2.60           Rated speed [RPM]         1755         1435         1435           Rated speed [RPM]         0.310         0.379         0           Locked rotor torque [%]         229         160         15           Breakdown torque [%]         300         220         15           Service factor         1.15         15         16           Breakdown torque [%]         500         66.0         05 (old) 05 (hot)         05 (cold) 05 (hot)           Locked rotor time         223 (cold) 135 (hot)         05 (cold) 05 (hot)         05 (cold) 05 (hot)         05 (cold) 05 (hot)           Locked rotor time         223 (cold) 135 (hot)         05 (cold) 05 (hot) <td colspan="2"></td> <td></td> <td colspan="2"></td> <td></td> <td>14.8/7.38</td> <td>15</td> <td>5.4/8.15</td>							14.8/7.38	15	5.4/8.15	
Rated speed [RPM]         1755         1435           Silp [%]         2.50         4.33           Rated torque [kgfm]         0.310         0.379           Locked rotor torque [%]         229         160           Breakdown torque [%]         300         220           Service factor         1.15         Importance           Emperature rise         80 K         80 K         80 K           Locked rotor time         23s (cold) 13s (hot)         0s (cold) 0s (hot)         0s (cold) 0s (hot)           Noise level <sup>2</sup> 520 dB(A)         49.0 dB(A)         49.1           Efficiency (%)         75%         72.0         74.1         100%           75%         75.5         74.3         100%         0.68         0.79           Power Factor         50%         0.68         0.79         100%         100%         0.68         0.79         100%           Bearing type         6203 ZZ         6202 ZZ         Foundation loads         Max. traction         27 kgf           Sealing         Without         Without         Wathout         Max. compression         :37 kgf           Lubricant amount         -         -         -         -         -		4]				ł	5.2x(Code H)	5.4x(Code J)		
Slip [%]         2.50         4.33         C           Rated torque [kgfm]         0.310         0.379         C           Decked rotor torque [%]         229         160         160           Breakdown torque [%]         300         220         50           Bervice factor         1.15         50         50           Emperature rise         80 K         80 K         300         220           Efficiency (%)         25%         66.0         69.6         69.6           100%         75.5         74.3         74.1         100           100%         75.5         74.3         100         25%           Power Factor         50%         0.452         0.55         100           Bearing type         6203 ZZ         6202 ZZ         Kax. traction         : 27 kgf           Sealing         Without         Bearing Seal         Bearing Seal         Max. compression         : 37 kgf           Lubrication interval         :         -         -         -         Lubrication interval         :         -         -           Lubricating type         :         Mobil Polyrex EM         Max. compression         : 37 kgf         50 %         50 %         -	[A]	d current [A		1.90-2.2	0/1.10				63/1.40	
Rated torque [kgfm]         0.310         0.379         0           Locked rotor torque [%]         229         160         160           Breakdown torque [%]         300         220         160         115           Service factor         1.15         1.15         100         100         0.000         220           Service factor         0.15         100         0.500         220         100         100         100         100         100         100         100         0.000         220         100         100         100         100         0.000         220         100         100         0.000         220         100         100         0.000         100         0.000         100         0.000         100         0.000         1	PM]									
Locked rotor torque [%]         229         160           Breakdown torque [%]         300         220           Service factor         1.15           Temperature rise         80 K         80 K           Locked rotor time         23s (cold) 13s (hot)         0s (cold) 0s (hot)         0s (cold) 0s (hot)           Noise level <sup>2</sup> 52.0 dB(A)         49.0 dB(A)         49.0           Efficiency (%)         50%         66.0         69.6           100%         75.5         74.3         100%           25%								3.33		
Breakdown torque [%]         300         220           Service factor         1.15           Temperature rise         80 K         80 K           Locked rotor time         23s (cold) 13s (hot)         0s (cold) 0s (hot)         0s (cold) 0s (hot)           Noise level?         52.0 dB(A)         49.0 dB(A)         49.0           Efficiency (%)         50%         66.0         69.6         90.6           25%         74.3         100%         75.5         74.3         100%           Power Factor         50%         0.45         0.55         100%         0.68         0.79         100%         0.68         0.79         100%         100%         0.68         0.79         100%         100%         100%         100%         0.68         0.79         100%         100%         0.68         0.79         100%         100%         0.68         0.79         100%         100%         100%         100%         0.68         Max. traction         : 27 kgf           Bearing type         :         6203 ZZ         6203 ZZ         6202 ZZ         Max. compression         : 37 kgf           Lubricant amount         :         -         -         -         -         10.00%         10.00% <td></td> <td></td> <td></td> <td colspan="2"></td> <td colspan="2">0.379</td> <td></td> <td>0.375</td>						0.379			0.375	
Service factor         1.15           Temperature rise         80 K           Locked rotor time         23s (cold) 13s (hot)         0s (cold) 0s (hot)         0s (cold) 0s (hot)           Noise level*         52.0 dB(A)         49.0 dB(A)         49.0           Efficiency (%)         75%         72.0         74.1         1           100%         75.5         74.3         1         1           Power Factor         50%         0.45         0.55         1           75%         0.58         0.69         1         100%         257%           Power Factor         75%         0.58         0.69         1         1           Power Factor         50%         0.45         0.55         1         1           Bearing type         :         6203 ZZ         6202 ZZ         Max. compression         : 37 kgf           Lubrication interval         :         -         -         Lubrication interval         : -         -           Lubrication type         :         Mobil Polyrex EM         Max. compression         : 37 kgf           Notes         USABLE @208V SF 1.00         These are average values based on tests wi         power supply, subject to the tolerances stipu           (1)			-				160		200	
Temperature rise         80 K         80 K         1           Locked rotor time         23s (cold) 13s (hot)         0s (cold) 0s (hot) <t< td=""><td>ue [%]</td><td></td><td>,]</td><td>300</td><td>0</td><td></td><td colspan="2"></td><td>270</td></t<>	ue [%]		,]	300	0				270	
Locked rotor time         23s (cold) 13s (hot)         0s (cold) 0s (hot)         49.0 dB(A)         40.0 d								1.15		
Noise level <sup>2</sup> 52.0 dB(A)         49.0 dB(A)         49.0           Efficiency (%)         25%         66.0         69.6         69.6           75%         72.0         74.1         60.0         69.6         60.0           Power Factor         50%         0.45         0.55         74.3         60.0         69.6         60.0         75.0         74.3         40.0         40.0         40.0         40.0         40.0         40.0         40.0         40.0         40.0         40.0         40.0         40.0         40.0									80 K	
Efficiency (%)         25%         66.0         69.6           75%         72.0         74.1           100%         75.5         74.3           25%         0.45         0.55           Power Factor         50%         0.45         0.55           75%         0.58         0.69         0.79           Bearing type         :         6203 ZZ         6202 ZZ           Sealing         ::         Without         Without           Bearing type         :         6203 ZZ         6202 ZZ           Sealing         ::         Without         Without           Bearing type         :         6203 ZZ         6202 ZZ           Max. traction         :         27 kgf           Max. compression         :         37 kgf           Ubrication interval         :         -           :         -         -           Lubricant type         :         Mobil Polyrex EM           Notes         USABLE @208V SF 1.00         These are average values based on tests wi           instructure 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.	e					0s			old) 0s (hot)	
Efficiency (%)         50%         66.0         69.6           75%         72.0         74.1         100%           100%         75.5         74.3         100%           Power Factor         50%         0.45         0.55         100%           75%         0.58         0.69         100%         0.68         0.79           Bearing type         :         6203 ZZ         6202 ZZ         Sealing         : 27 kgf           Sealing         :         Without         Without         Max. traction         : 27 kgf           Lubrication interval         :         -         -         -         Lubrication interval         : 37 kgf           Lubrication interval         :         -         -         -         -           Lubrication interval         :         -         -         -           Lubrication type         :         Mobil Polyrex EM         Max. traction         :           Notes         USABLE @2		level <sup>2</sup>		52.0 d	B(A)		49.0 dB(A)	49.	.0 dB(A)	
Efficiency (%)       75%       72.0       74.1         100%       75.5       74.3         Power Factor       50%       0.45       0.55         75%       0.58       0.69         100%       0.68       0.79         Bearing type       :       6203 ZZ       6202 ZZ         Sealing       :       Without       Without         Bearing Seal       Bearing Seal       Bearing Seal       Foundation loads         Lubrication interval       :       -       -         Lubricant amount       :       -       -         Lubricant type       :       Mobil Polyrex EM       Max. compression       : 37 kgf         Notes       USABLE @208V SF 1.00       These are average values based on tests wi       power supply, subject to the tolerances stipu         MG-1.       (2) Measured at 1m and with tolerance of +3dB(A).       MG-1.       MG-1.										
100%     75.0     74.1       100%     75.5     74.3       Power Factor     50%     0.45     0.55       100%     0.68     0.79       Bearing type     :     6203 ZZ     6202 ZZ       Sealing     :     Without     Without       Bearing Seal     Bearing Seal     Bearing Seal       Lubrication interval     :     -       :     -     -       Lubricant amount     :     -       :     .     -       Lubricant type     :     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.     These are average values based on tests wipower supply, subject to the tolerances stipu		iency (%)							61.9	
Power Factor       25%       0.45       0.55         75%       0.58       0.69       0.69         100%       0.68       0.79       0.55         Bearing type       :       6203 ZZ       6202 ZZ         Sealing       :       Without       Without         Bearing type       :       6203 ZZ       6202 ZZ         Sealing       :       Without       Without         Bearing Seal       Bearing Seal       Bearing Seal         Lubrication interval       :       -       -         Lubricant amount       :       -       -         Lubricant type       :       Mobil Polyrex EM       Max. compression       : 37 kgf         Notes       USABLE @208V SF 1.00	15								69.5	
Power Factor       50%       0.45       0.55         75%       0.58       0.69         100%       0.68       0.79         Bearing type       :       6203 ZZ       6202 ZZ         Sealing       :       Without       Without         Bearing Seal       Bearing Seal       Bearing Seal       Max. traction       : 27 kgf         Lubrication interval       :       -       -       -         Lubricant amount       :       -       -       -         Lubricant type       :       Mobil Polyrex EM       Max. compression       : 37 kgf         Notes       USABLE @208V SF 1.00       -       -       -         This revision replaces and cancel the previous one, which must be eliminated.       These are average values based on tests wi power supply, subject to the tolerances stipu         (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.       -       -				75.	5		74.3		72.5	
Power Factor       75%       0.58       0.69         100%       0.68       0.79         Bearing type       :       6203 ZZ       6202 ZZ         Sealing       :       Without       Without         Bearing Seal       Bearing Seal       Bearing Seal       Max. traction       : 27 kgf         Lubrication interval       :       -       -       -         Lubricant amount       :       -       -       -         Lubricant type       :       Mobil Polyrex EM       Max. compression       : 37 kgf         Notes       USABLE @208V SF 1.00       -       -       -         This revision replaces and cancel the previous one, which must be eliminated.       These are average values based on tests wi power supply, subject to the tolerances stipu         (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.       manufacturing process.       The second context of the tolerance of the tolerance of the second context of the tolerance of t									-	
75%     0.58     0.69       100%     0.68     0.79       Bearing type     :     6203 ZZ     6202 ZZ       Sealing     :     Without     Without       Bearing Seal     Bearing Seal     Bearing Seal       Lubrication interval     :     -       :     -     -       Lubrication interval     :     -       :     -     -       Lubricant amount     :     -       :     -     -       Lubricant type     :     Mobil Polyrex EM   Notes USABLE @208V SF 1.00  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.     These are average values based on tests with power supply, subject to the tolerances stiputed on the staft end.		er Factor							0.45	
Bearing type       :       Drive end 6203 ZZ       Non drive end 6202 ZZ       Foundation loads         Sealing       :       Without       Without       Max. traction       :       27 kgf         Sealing       :       Without       Without       Bearing Seal       Bearing Seal       Max. traction       :       :       37 kgf         Lubrication interval       :       -									0.59	
Bearing type       :       6203 ZZ       6202 ZZ       Max. traction       : 27 kgf         Sealing       :       Without       Without       Max. compression       : 37 kgf         Lubrication interval       :       -       -       -         Lubricant amount       :       -       -       -         Lubricant type       :       Mobil Polyrex EM       Max. traction       : 37 kgf         Notes       USABLE @208V SF 1.00       .       .       .       .         This revision replaces and cancel the previous one, which must be eliminated.       These are average values based on tests wi power supply, subject to the tolerances stiput         (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.       .       .       .	100		100%						0.70	
Lubricant type       :       Mobil Polyrex EM         Notes       USABLE @208V SF 1.00         This revision replaces and cancel the previous one, which must be eliminated.       These are average values based on tests wi power supply, subject to the tolerances stiput (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.	Sealing Lubrication interval		:	6203 ZZ 6202 ZZ Without Without Bearing Seal Bearing Seal		Max. traction: 27 kgfMax. compression: 37 kgf				
Notes       USABLE @208V SF 1.00         This revision replaces and cancel the previous one, which must be eliminated.       These are average values based on tests wi power supply, subject to the tolerances stiput         (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.	unt			Mobil Po	olvrex EM					
	places an ated. motor fro t 1m and e weight s	evision replate eliminate poking the measured at 1 poproximate v	s and cancel r from the sha and with toler ght subject to	aft end. ance of +3dB	(A).	power s				
(4) At 100% of full load.         Rev.       Changes Summary         Performed       Checked		100% of ful	ill load.				Performed	Checked	Date	
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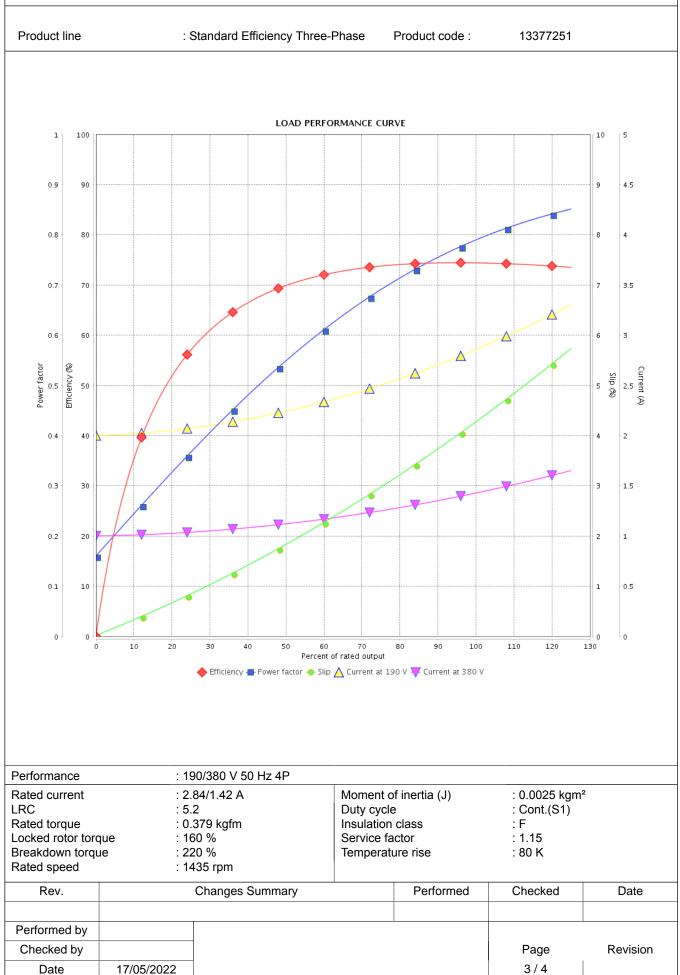
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## LOAD PERFORMANCE CURVE

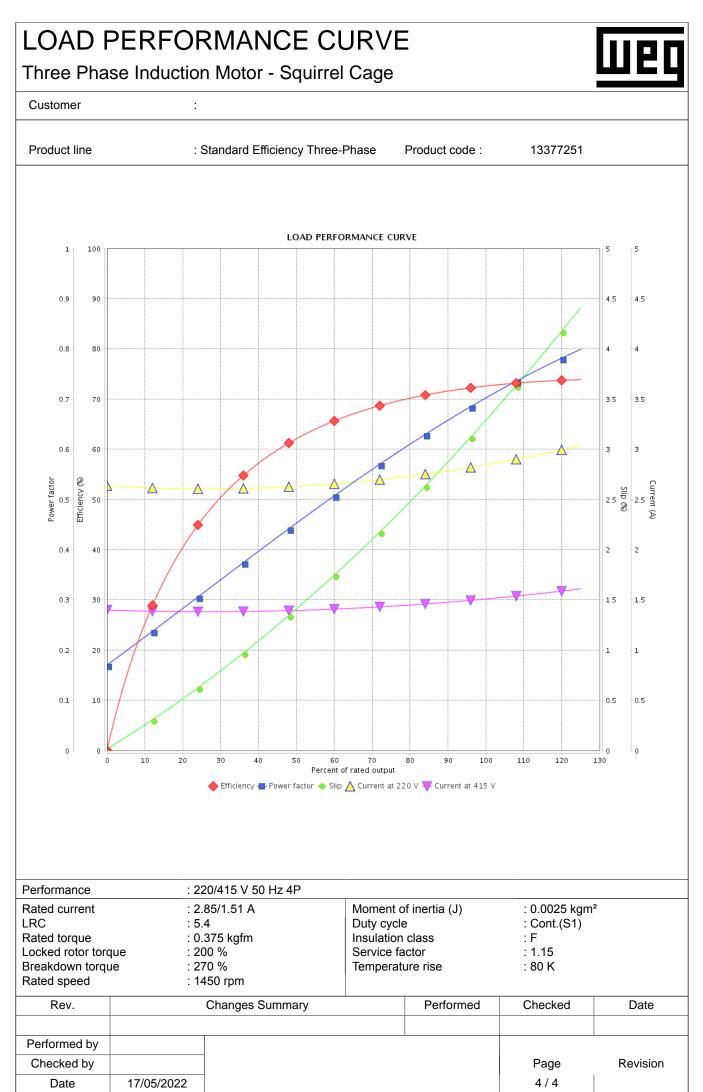
Three Phase Induction Motor - Squirrel Cage

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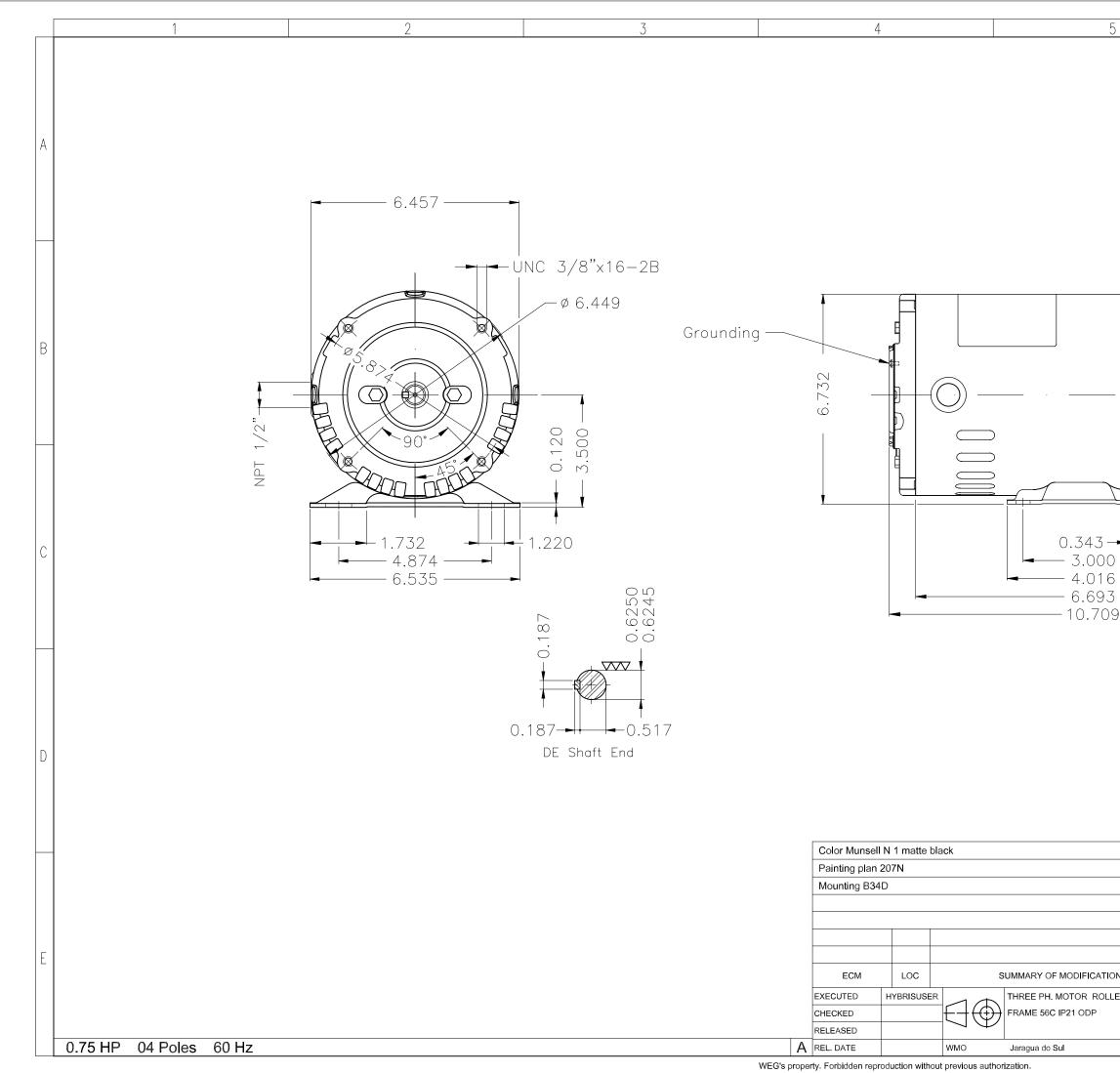
#### Customer



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