# DATA SHEET

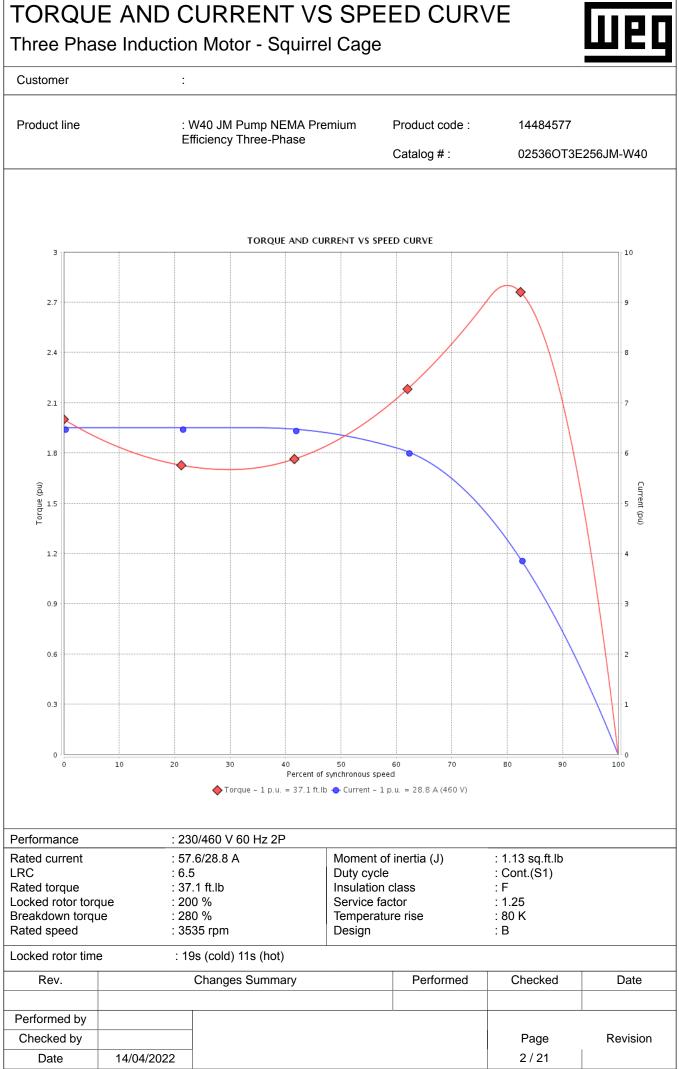
Three Phase Induction Motor - Squirrel Cage

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#### Customer

Catalog # :         025360T3E256JM-W40           Frame         : 254/B/M         Coning method         : Coning method <th :="" colspan="2" coning="" metho<="" th=""><th colspan="2">Product line</th><th colspan="2">: W40 JM Pump NEMA Premium Efficiency Three-Phase</th><th>um Pro</th><th colspan="2">Product code :</th><th colspan="2">14484577</th></th>	<th colspan="2">Product line</th> <th colspan="2">: W40 JM Pump NEMA Premium Efficiency Three-Phase</th> <th>um Pro</th> <th colspan="2">Product code :</th> <th colspan="2">14484577</th>		Product line		: W40 JM Pump NEMA Premium Efficiency Three-Phase		um Pro	Product code :		14484577	
Insulation class         : F         Mounting         : F-1         Mounting         : F-1           Ambient temperature         : 20° C to +40° C         Starting method         : Direct On Line         Direct On Line           Antitude         : 1000 m.a.s.l.         Approx.weight*         : 243 lb         Moment of inertia (J)         : 1.13 sq.ft.lb           Design         :B         2<					Са	talog # :	025360	T3E256JM-W40			
Opes         2         2         2         2         2         2           Tengency [H2]         60         50         50         50         50           Rated voltage [V]         230/460         380         400         415           Rated untage [V]         57.6/28.8         28.2         27.4         27.0           R. Amperes [A]         37.4/187         192         186         200           RC [A]         6.5x(Code G)         6.5x(Code H)         6.8x(Code J)         7.4x(Code J)           Io load current [A]         17.0/s.50         8.20         9.10         10.0           Stated speed [RPM]         3535         2935         2945         2950           Stated speed [RPM]         3535         2935         2945         2950           Stated speed [RPM]         18.1         2.17         1.83         1.67           Stated speed [RPM]         27.1         5.8         35.7         35.6           Cocked rotor torue [%]         280         280         300         320           Ferucetactor         12.5         1.00         1.00         1.00         1.00           Efficiency (%)         25%         9.0.8         87.6         87.9 <td>Insulation class Duty cycle Ambient tempera Altitude Protection degre</td> <td></td> <td colspan="2">: F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP23</td> <td colspan="2">Mounting Rotation<sup>1</sup> Starting method Approx. weight<sup>3</sup></td> <td>: F-1 : Both (0 : Direct : 243 lb</td> <td colspan="2">: F-1 : Both (CW and CCW) : Direct On Line : 243 lb</td>	Insulation class Duty cycle Ambient tempera Altitude Protection degre		: F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP23		Mounting Rotation <sup>1</sup> Starting method Approx. weight <sup>3</sup>		: F-1 : Both (0 : Direct : 243 lb	: F-1 : Both (CW and CCW) : Direct On Line : 243 lb			
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Frequency [Hz]         60         50         50         50           Rated vorlage [V]         230/460         380         400         415           Rated current [A]         57.6/28.8         28.2         27.4         27.0           R. Amperes [A]         65.8/Code [Y]         6.8/Code						-	·				
alaced outsing [V]         230/460         380         400         415           Rated current [A]         57.6/28.8         28.2         27.4         27.0           R. Amperes [A]         6.5x(Code G)         6.8x(Code H)         6.8x(Code J)         0.8x(Code J)           to load current [A]         17.0/8.50         8.20         9.10         10.0           ated speed [RPM]         3535         2935         2945         2950           Silp [%]         1.81         2.17         16.83         16.7           Cated torque [%]         200         200         220         229           Breakdown forque [%]         200         200         200         30.0         320           ierwice factor         1.25         1.00         1.00         1.00         1.00           ierwice factor         1.25         1.00         1.00         145 (cold) 85 (hot)         145 (cold) 85 (hot)           ierwice factor         195 (cold) 115 (hot)         144 (cold) 85 (hot)         148 (cold) 85 (hot)         145 (cold) 85 (hot)           ierwice factor         1.25         1.00         1.00         10.0         10.0           ierwice factor         1.25         0.053         0.64         0.45         0.44							)				
Tailed current [A]         57 fi/28.8         28.2         27.4         27.0           .R. Amperes [A]         374/187         192         186         200           .R. C[A]         6.5x(Code G)         6.6x(Code H)         6.6x(Code J)         7.4x(Code J)           io load current [A]         17.0/8.50         8.20         9.10         10.0           tated speed [RPM]         3535         2935         2945         2550           stated torque [fk]b         37.1         35.8         35.7         35.6           ocked rotor torque [%]         200         200         220         229           trevice factor         1.25         1.00         1.00         1.00           ervice factor         1.25         1.00         1.00         1.00           coked rotor time         198 (cold) 11s (hot)         14s (cold) 8s (hot)         18s (cold) 10s (hot)         14s (cold) 8s (hot)           toise level*											
R. Amperes (Å)     374/187     192     186     200       RC (Å)     6.5x(Code G)     6.8x(Code H)     7.4x(Code J)       io load current (Å)     17.0/8.50     8.20     9.10     10.0       tated speed [RPM]     3635     2935     2945     2950       tig [%]     1.81     2.17     1.83     1.67       tated torque [%]     200     220     220     229       trackdown torque [%]     280     286     300     320       trackdown torque [%]     280     87.6     87.9     87.9       trackdown torque [%]     90.8     87.6     87.9     87.9       toked rotor time     195 (cold) 115 (hot)     145 (cold) 28 (hot)     185 (cold) 105 (hot)     145 (cold) 38 (hot)       toked rotor time     195 (cold) 113 (hot)     145 (cold) 28 (hot)     180 (cold) 19 (hot)     145 (cold) 38 (hot)       toked rotor time     195 (cold) 113 (hot)     145 (cold) 28 (hot)     180 (cold) 19 (hot)     19 (cold) 19 (hot)       Power Factor     50%     0.77     0.77     0.77											
RC [A]         6.5x(Code G)         6.8x(Code H)         6.8x(Code H)         7.4x(Code J)           io load current [A]         17.0%.50         8.20         9.10         10.0           iacle aspect [PM]         3535         2935         2245         2950           ibp [%]         1.81         2.17         1.83         1.67           iacled torque [%]         200         200         220         229           previce factor         1.25         1.00         1.00         1.00           errive factor         1.25         1.00         1.00         1.00           errive factor         1.25         1.00         1.00         1.00           iocked rotor torue         198 (cold) 15 (hot)         148 (cold) 8 (hot)         188 (cold) 108 (hot)         148 (cold) 8 (hot)           ocked rotor time         198 (cold) 114 (cold) 8 (hot)         89.9         90.1         90.1           efficiency (%)         50%         0.53         0.54         0.49         0.45           power Factor         25%         0.65         0.82         0.79         0.73         0.69           r50%         0.77         0.77         0.77         0.73         0.69         0.88         0.86         0											
load ourment [A]         17.08.50         8.20         9.10         10.0           Rated speed [RPM]         3535         2935         2945         2950           Rated speed [RPM]         3535         2935         2945         2950           Rated torque [K1b]         37.1         35.8         35.7         35.6           cocked rotor torque [%]         280         2260         300         320           tated torque [%]         280         266         300         320           temperature rise         80 K				6.8							
Bated speed [RPM]         3535         2935         2945         2950           Billip [%]         1.81         2.17         1.83         1.67           Stated torque [%]         200         200         220         229           Decked rotor torque [%]         280         280         300         320           Strakdown torque [%]         280         280         80 K		]		0.0							
Notes         Difference         1.81         2.17         1.83         1.67           Read torque [ft,lb]         37.1         35.6         35.7         35.6           occked rotor torque [%]         280         260         300         320           previde factor         1.25         1.00         1.00         1.00           envice factor         1.25         1.00         1.00         1.00           isele verive factor         1.95         (cold) 15 (hot)         14s (cold) 2s (hot)         14s (cold) 2s (hot)           loise level?         1.00         1.00         1.00         1.00         1.00           ise fifticiency (%)         25%         90.8         87.6         87.9         87.9           Efficiency (%)         50%         91.7         89.9         90.1         90.1           100%         91.7         89.9         90.1         90.1           power Factor         75%         0.63         0.54         0.49         0.45           power Factor         75%         0.85         0.82         0.79         0.73         0.69           power Sealing         E         0000 h         2000 h         2000 h         0.88         0.86 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
stated forque [ft.lb]         37.1         35.8         35.7         35.6           cocked rotor torque [%]         200         220         229           cocked rotor torque [%]         280         260         300         320           service factor         1.25         1.00         1.00         1.00           remperature rise         80 K         80 K         80 K         80 K         80 K           cocked rotor time         19s (cold) 11s (hot)         14s (cold) 8s (hot)         18s (cold) 10s (hot)         14s (cold) 8s (hot)           cocked rotor time         19s (cold) 11s (hot)         14s (cold) 8s (hot)         18s (cold) 10s (hot)         14s (cold) 8s (hot)           cocked rotor time         25%         90.8         87.6         87.9         87.9           Efficiency (%)         50%         91.7         91.9         91.9         91.9           Power Factor         25%         0.53         0.54         0.49         0.45           power Factor         50%         0.77         0.77         0.73         0.69           75%         0.85         0.85         0.82         0.79         0.84           Bearing type         :         6309 Z C3         6202 Z C3         Max. tra		1									
ocked notor torque [%]         200         200         220         229           bireakdown torque [%]         280         260         300         320           bireakdown torque [%]         280         80 K         80 K <t< td=""><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>		1									
Breakdown torque [%]         280         260         300         320           Pervice factor         1.25         1.00         1.00         1.00         1.00           emperature rise         80 K											
Bervice factor         1.25         1.00         1.00         1.00         1.00           emperature rise         80 K         80											
Emperature rise         80 K		. [ \0]									
Locked rotor time         19s (cold) 11s (hot)         14s (cold) 8s (hot)         18s (cold) 10s (hot)         14s (cold) 8s (hot)           Loise level <sup>2</sup> 25%         90.8         87.6         87.9         87.9           Efficiency (%)         50%         91.0         89.9         90.1         90.1           100%         91.7         89.9         90.1         90.1         90.1           Power Factor         75%         0.53         0.54         0.49         0.45           75%         0.85         0.88         0.82         0.79           100%         0.85         0.85         0.82         0.79           75%         0.85         0.82         0.79         0.73           100%         0.88         0.88         0.86         0.84           Bearing type         :         6309 Z C3         6209 Z C3         Max. traction           Bearing type         :         6309 Z C3         6209 Z C3         Max. traction           Bearing Seal Bearing Seal         20000 h         20000 h         20000 h         20000 h           Lubricatin interval         :         20000 h         20000 h         20000 h         20000 h           Lubricatin type											
bise level <sup>2</sup> 25%         90.8         87.6         87.9         87.9           Efficiency (%)         50%         91.0         89.5         89.6         88.6         89.6         63.0         89.5         0.53         0.53         0.53         0.53         0.53         0.85         0.82         0.79         0.73         0.69         0.84         0.86         0.84         0.86         0.84         0.86         0.84         0.86         0.84         0.86         0.84         0.85         0.82         0.86         0.84         0.86         0.84         0.85         0.82         0.82 <td></td> <td></td> <td></td> <td>1/c /</td> <td></td> <td></td> <td></td> <td></td>				1/c /							
Efficiency (%)         25%         90.8         87.6         87.9         87.9           50%         91.0         89.5         89.6         89.6         89.6           75%         91.7         89.9         90.1         90.1         90.1           100%         91.7         91.9         91.9         91.9         91.9           Power Factor         50%         0.77         0.77         0.73         0.69           75%         0.85         0.85         0.82         0.79           100%         0.88         0.88         0.86         0.84           Bearing type         :         6309 Z C3         6209 Z C3         Max. traction           Bearing type         :         6309 Z C3         6209 Z C3         Max. traction           Bearing type         :         6309 Z C3         6209 Z C3         Max. traction           Lubrication interval         :         20000 h         20000 h         Max. traction           Lubricati amount         :         13 g         9 g         gubiet to the tolerances stipulated in NEMA           Notes         USABLE @208V 63.7A SF 1.15 SFA 73.2A         These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA <td></td> <td></td> <td></td> <td>145 (</td> <td></td> <td></td> <td></td> <td></td>				145 (							
Efficiency (%)         50%         91.0         89.5         89.6         89.6         89.6           75%         91.7         89.9         90.1         90.1         90.1         90.1           Power Factor         25%         0.53         0.54         0.49         0.45           50%         0.77         0.77         0.73         0.69           75%         0.85         0.85         0.82         0.79           100%         0.88         0.86         0.84         0.86         0.84           Bearing type         6309 Z C3         6209 Z C3         Max. traction         Max. compression         Max. compression           Bearing type         13 g         9 g         Lubrication interval         20000 h         20000 h         20000 h         Max. compression           Notes         USABLE @208V 63.7A SF 1.15 SFA 73.2A         These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.         MG-1.           (2) Mazured at 1 m and with tolerance of +3dB(A).         MG-1.         MG-1.           (3) Approximate weight subject to changes after manufacturing process.         Max         MG-1.           (4) At 100% of full load.         Performed         Checked         Date		25%	90.8		87.6	87	9	87 9			
Efficiency (%)         75%         91.7         89.9         90.1         90.1         90.1           Power Factor         100%         91.7         91.9         91.9         91.9         91.9         91.9           Power Factor         50%         0.53         0.54         0.49         0.45           Power Factor         50%         0.77         0.73         0.69           75%         0.85         0.85         0.82         0.79           100%         0.88         0.86         0.86         0.84           Bearing type         :         6309 Z C3         6209 Z C3         Max. traction           Bearing type         :         6309 Z C3         6209 Z C3         Max. traction           Lubrication interval         :         20000 h         20000 h         Max. traction           Lubricatin type         :         Mobil Polyrex EM         Max. compression         Max. compression           Notes         USABLE @208V 63.7A SF 1.15 SFA 73.2A         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).         (3) Approximate weight subject to changes after manufacturing process.         MG-1.         Performed         Date											
100%         91.7         91.9         91.9         91.9         91.9         91.9           Power Factor         25%         0.53         0.54         0.49         0.45           50%         0.77         0.73         0.69         0.45           75%         0.85         0.85         0.82         0.79           100%         0.88         0.88         0.86         0.84           Bearing type         :         6309 Z C3         6209 Z C3         Max. traction           Sealing         :         Without         Without         Max. traction           Bearing Seal         Bearing Seal         Bearing Seal         Max. traction           Lubrication interval         :         20000 h         20000 h         Max. traction           Lubricant type         :         Mobil Polyrex EM         Max. traction         Max. compression           Notes         USABLE @208V 63.7A SF 1.15 SFA 73.2A         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).         Sinproximate weight subject to changes after manufacturing process.         MG-1.           (4) At 100% of full load.         Entore the sup	Efficiency (%)										
Power Factor         25%         0.53         0.54         0.49         0.45           50%         0.77         0.77         0.73         0.69         0.69           75%         0.85         0.82         0.79         0.82         0.79           100%         0.88         0.88         0.82         0.79         0.84         0.82         0.79           Bearing type         :         6309 Z C3         6209 Z C3         Max. traction											
Power Factor       50%       0.77       0.77       0.73       0.69         75%       0.85       0.85       0.82       0.79         100%       0.88       0.85       0.82       0.79         Bearing type       :       6309 Z C3       6209 Z C3       Max. traction         Sealing       :       Without       Without       Max. traction         Lubrication interval       :       20000 h       20000 h       Max. traction         Lubricant amount       :       13 g       9 g       g         Lubricant amount       :       13 g       9 g       g         Lubricant type       :       Mobil Polyrex EM       Max. compression         Notes       USABLE @208V 63.7A SF 1.15 SFA 73.2A       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.       MG-1.         (3) Approximate weight subject to changes after manufacturing process.       Max. traction       MG-1.         (4) At 100% of full load.       Performed       Checked       Date         Performed by											
Power Pactor       75%       0.85       0.85       0.82       0.79         100%       0.88       0.88       0.88       0.86       0.84         Bearing type       :       6309 Z C3       6209 Z C3       Max. traction         Sealing       :       Without       Without       Max. compression         Lubrication interval       :       20000 h       20000 h         Lubricant amount       :       13 g       9 g         Lubricant type       :       Mobil Polyrex EM       Max. compression         Notes       USABLE @208V 63.7A SF 1.15 SFA 73.2A       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         Rev.       Changes Summary       Performed       Checked       Date         Performed by											
100%       0.88       0.88       0.86       0.84         Bearing type       :       6309 Z C3       6209 Z C3       Max. traction         Sealing       :       Without       Without       Max. traction         Bearing Seal Bearing Seal       Bearing Seal       Bearing Seal       Bearing Seal         Lubrication interval       :       20000 h       20000 h         Lubricant amount       :       13 g       9 g         Lubricant type       :       Mobil Polyrex EM       Max. traction         Notes       USABLE @208V 63.7A SF 1.15 SFA 73.2A       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).       (3) Approximate weight subject to changes after manufacturing process.       MG-1.         (4) At 100% of full load.       Exercise Summary       Performed       Checked       Date         Performed by	Power Factor										
Drive end Bearing type       Sealing       Drive end 6309 Z C3       Foundation loads Max. traction Max. compression         Sealing       Without       Without Bearing Seal       Bearing Seal 20000 h       Bearing Seal 20000 h       Max. traction Max. compression         Lubrication interval       20000 h       20000 h       Max. traction         Lubricant amount       13 g       9 g         Lubricant type       Mobil Polyrex EM         Notes       USABLE @208V 63.7A SF 1.15 SFA 73.2A         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.         Rev.       Changes Summary       Performed       Checked       Date         Performed by       Page       Revision											
Notes       USABLE @208V 63.7A SF 1.15 SFA 73.2A         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 (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       Date         Performed by       Page       Revision	Sealing Lubrication interv Lubricant amoun	/al	Drive endNon dr6309 Z C3620WithoutWiBearing SealBeari20000 h2013 g	9 Z C3 ithout ing Seal 000 h 9 g	Foundation Max. tractic Max. comp	loads					
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       Date         Performed by       Page       Revision		63.7A SF 1.	15 SFA 73.2A		I						
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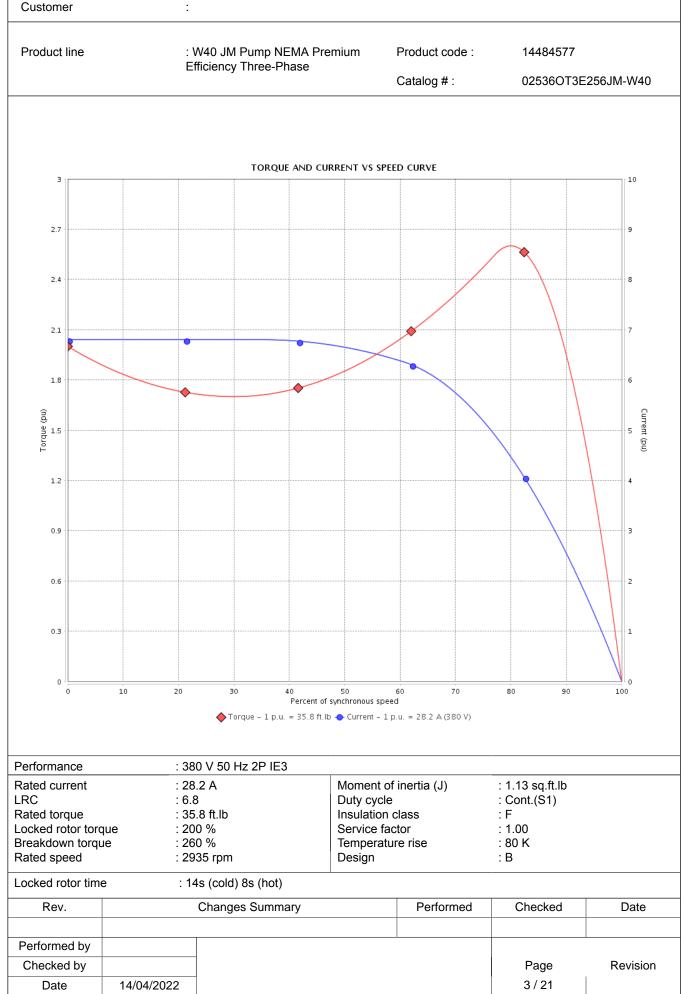


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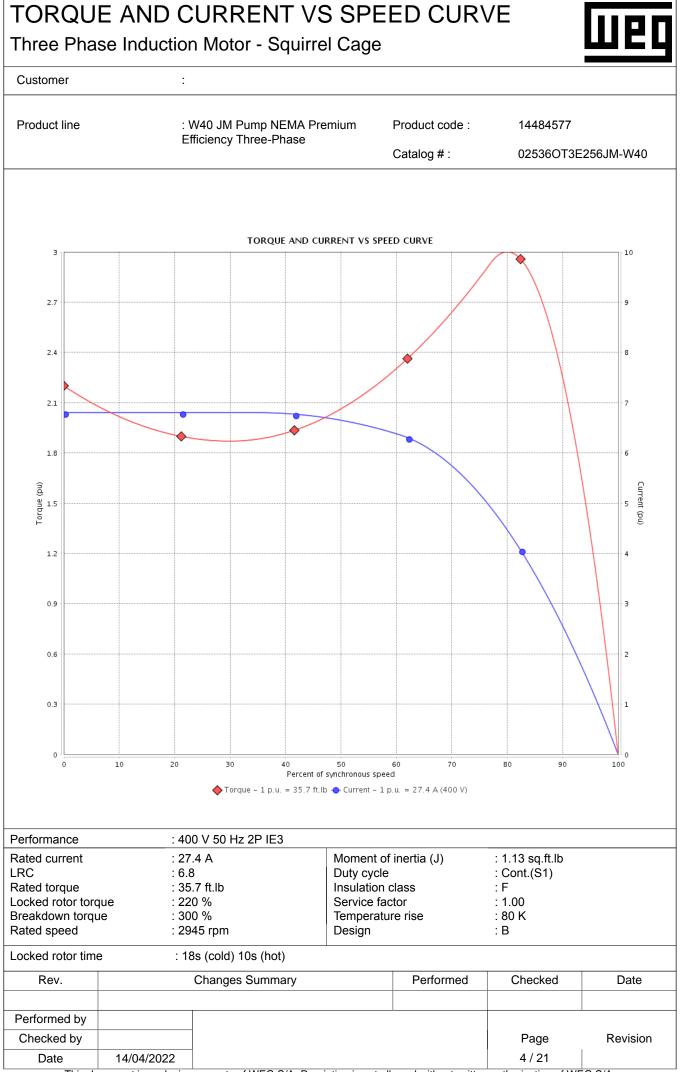
### TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

#### Customer



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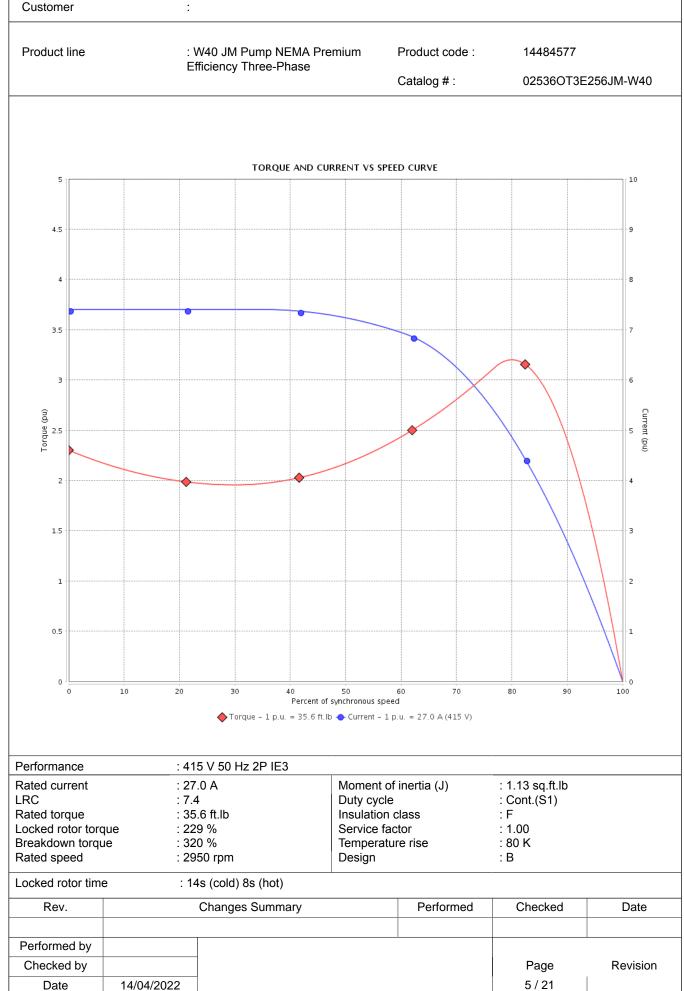


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### TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

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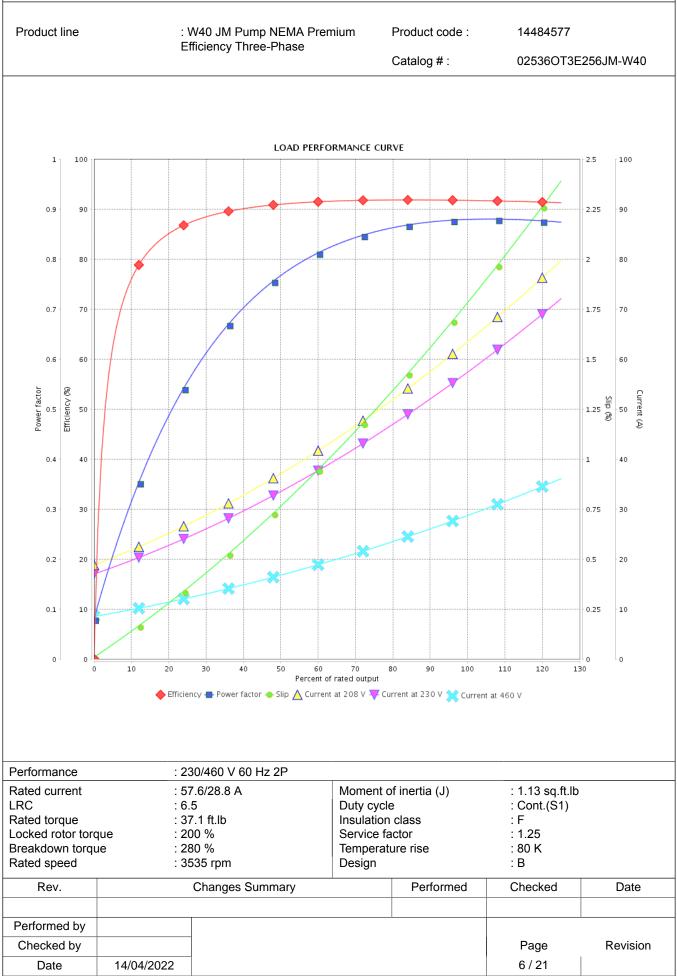
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Three Phase Induction Motor - Squirrel Cage

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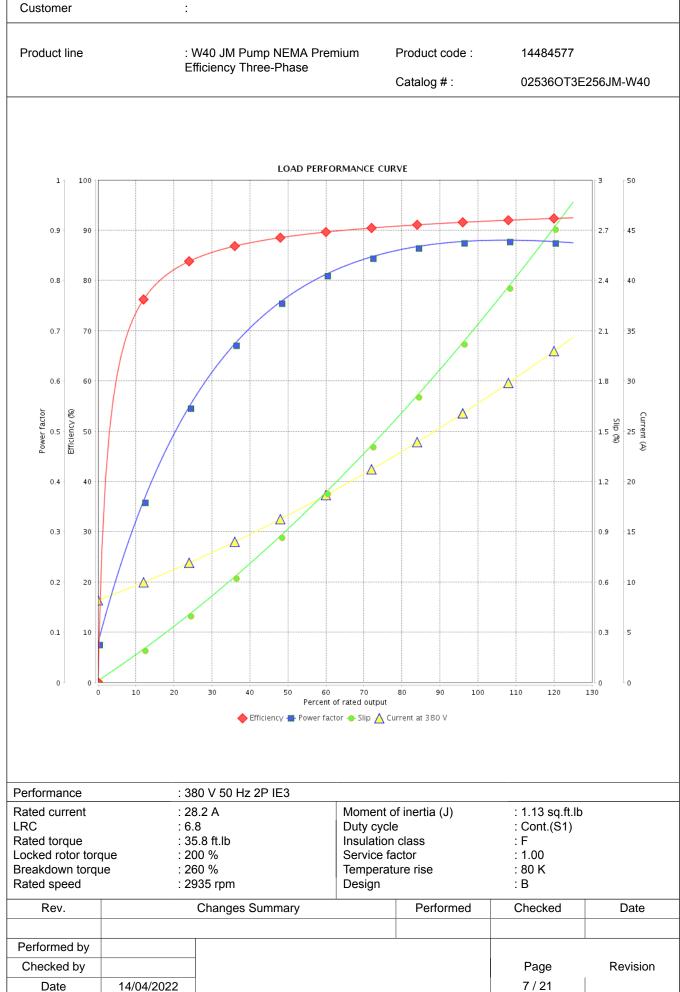


Customer



Three Phase Induction Motor - Squirrel Cage

### Customer



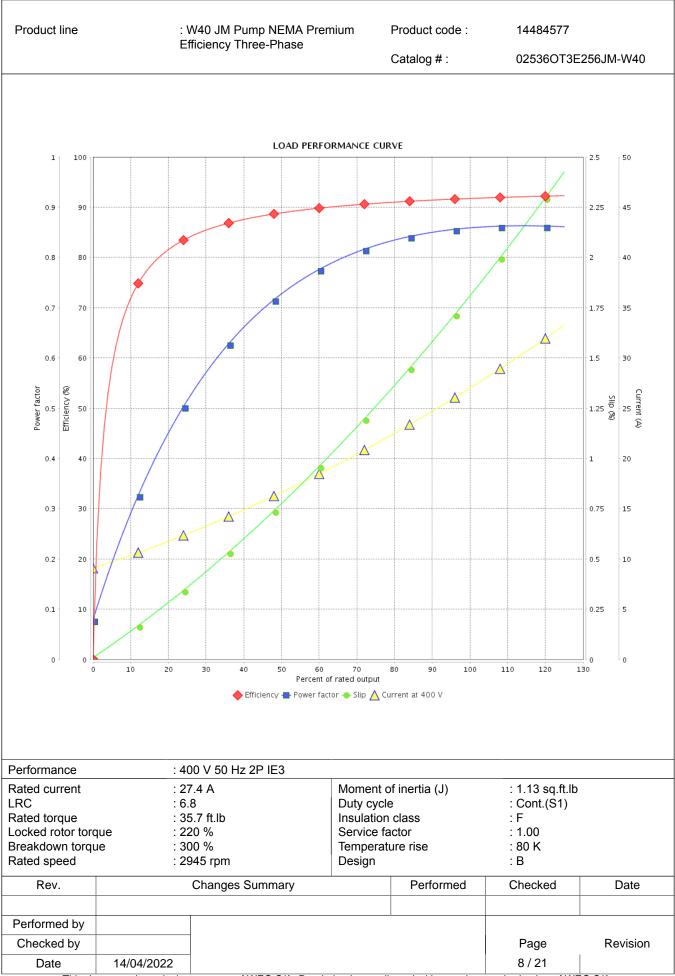
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Three Phase Induction Motor - Squirrel Cage

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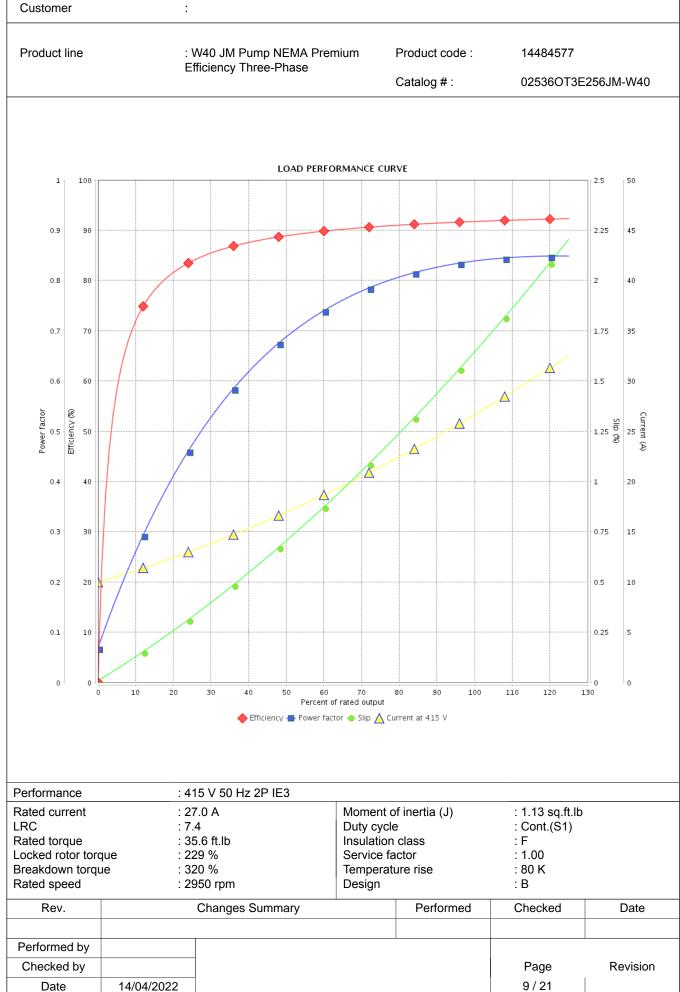


Customer



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#### Customer



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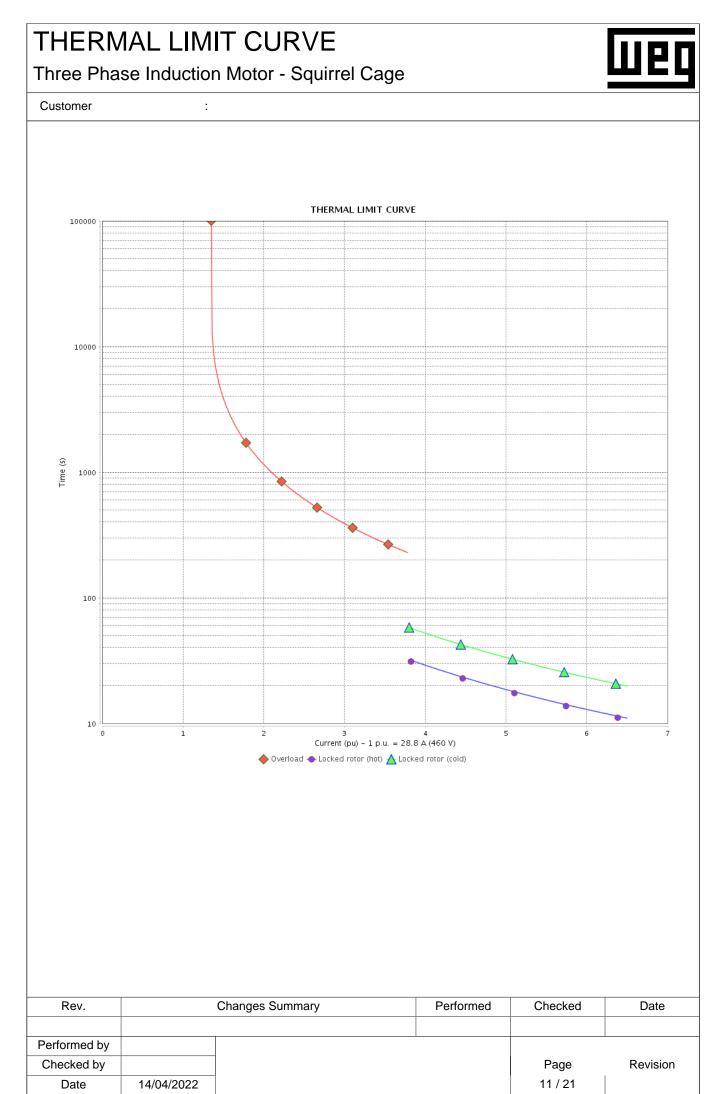


Customer

Product line		: W40 JM Pump NEMA Premium Efficiency Three-Phase		Product code :	14484577	
				Catalog # :	02536OT3E2	56JM-W40
Performance	: 2	230/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque		57.6/28.8 A 5.5 37.1 ft.lb 200 % 280 % 3535 rpm	ft.lbDuty cycleft.lbInsulation%Service fa%Temperat		: 1.13 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constan	t					
Cooling constant						
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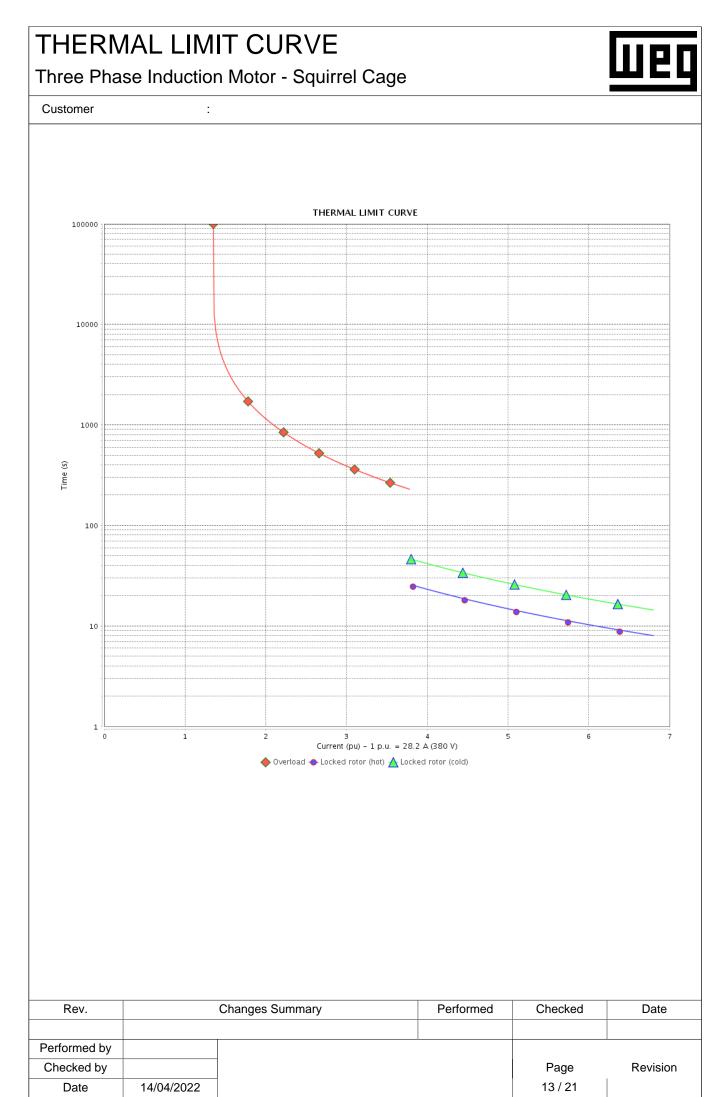


Customer

Product line		: W40 JM Pump NEMA Premium Efficiency Three-Phase		Product code :	14484577	
				Catalog # :	02536OT3E2	256JM-W40
Performance	: 38	30 V 50 Hz 2P IE3				
Rated current LRC		3.2 A	Moment o Duty cycle	f inertia (J)	: 1.13 sq.ft.lb : Cont.(S1)	
Rated torque	: 35	5.8 ft.lb	Insulation	class	: F	
Locked rotor toro		00 %	Service fa		: 1.00	
Breakdown torqu		50 %	Temperatu	ure rise	: 80 K	
Rated speed		935 rpm	Design		: B	
Heating constant						
Cooling constant						
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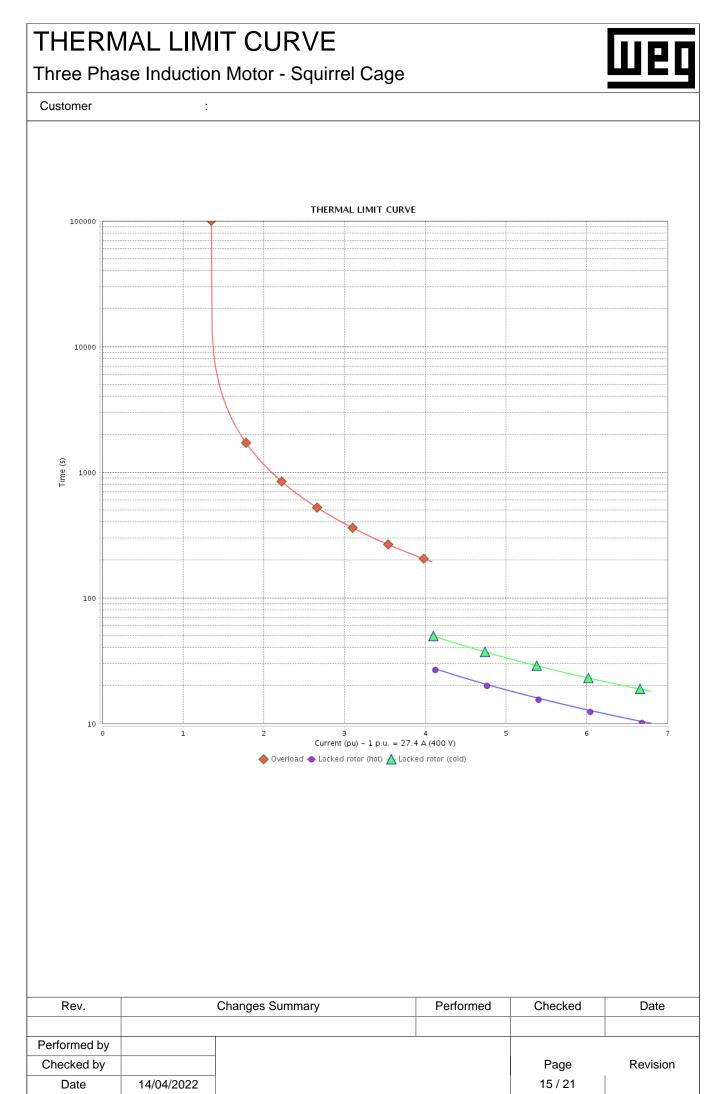


Customer

Product line		: W40 JM Pump NEMA Premium Efficiency Three-Phase		Product code :	14484577	
			Catalog # :		02536OT3E2	56JM-W40
Performance	: 40	00 V 50 Hz 2P IE3				
Rated current LRC		7.4 A	Moment o Duty cycle	f inertia (J)	: 1.13 sq.ft.lb : Cont.(S1)	
Rated torque	: 35	5.7 ft.lb	Insulation	class	: F	
Locked rotor tore		20 %	Service fa		: 1.00	
Breakdown torqu		00 %	Temperatu	ure rise	: 80 K	
Rated speed		945 rpm	Design		: B	
Heating constant						
Cooling constant		2				
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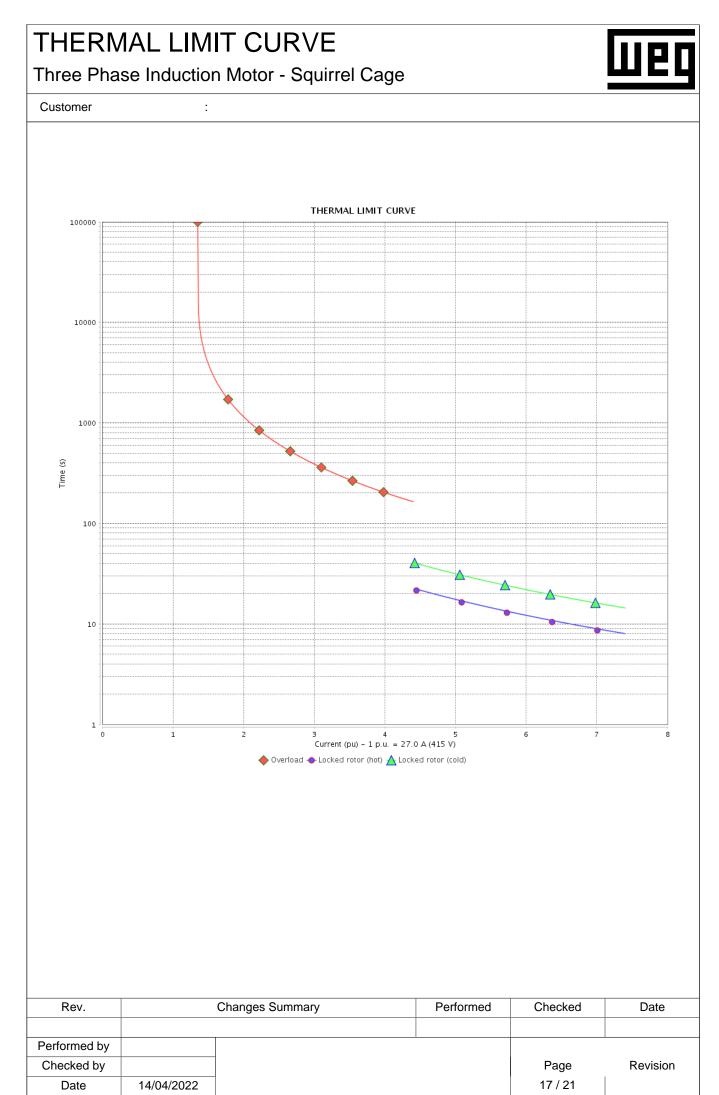
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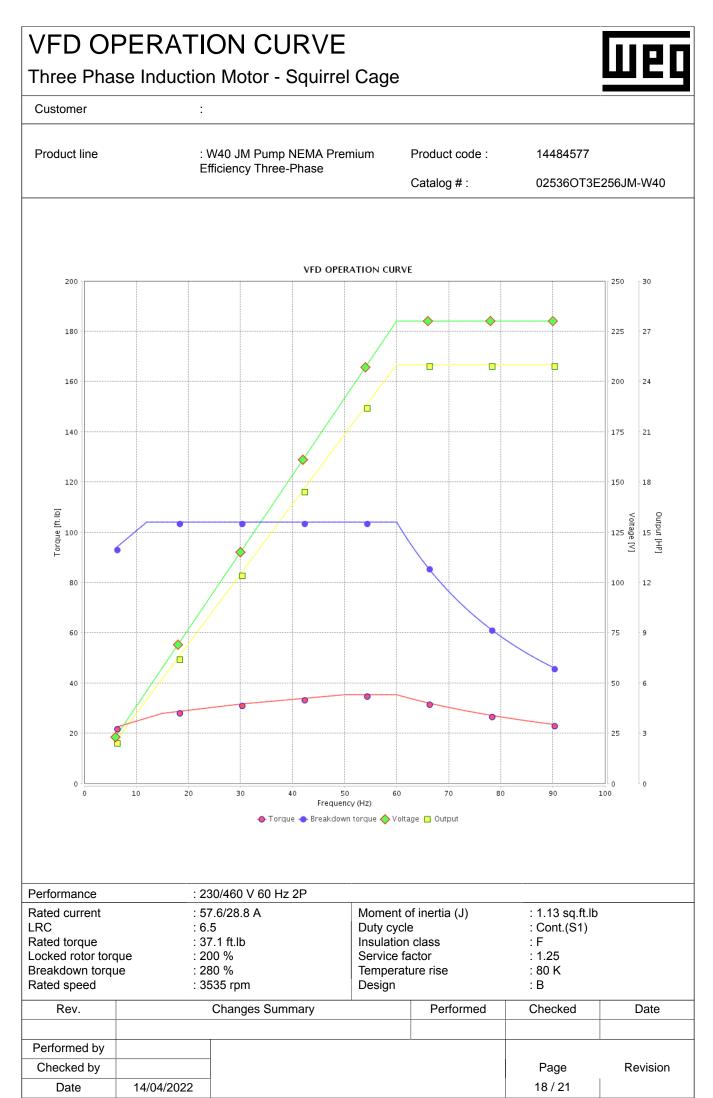


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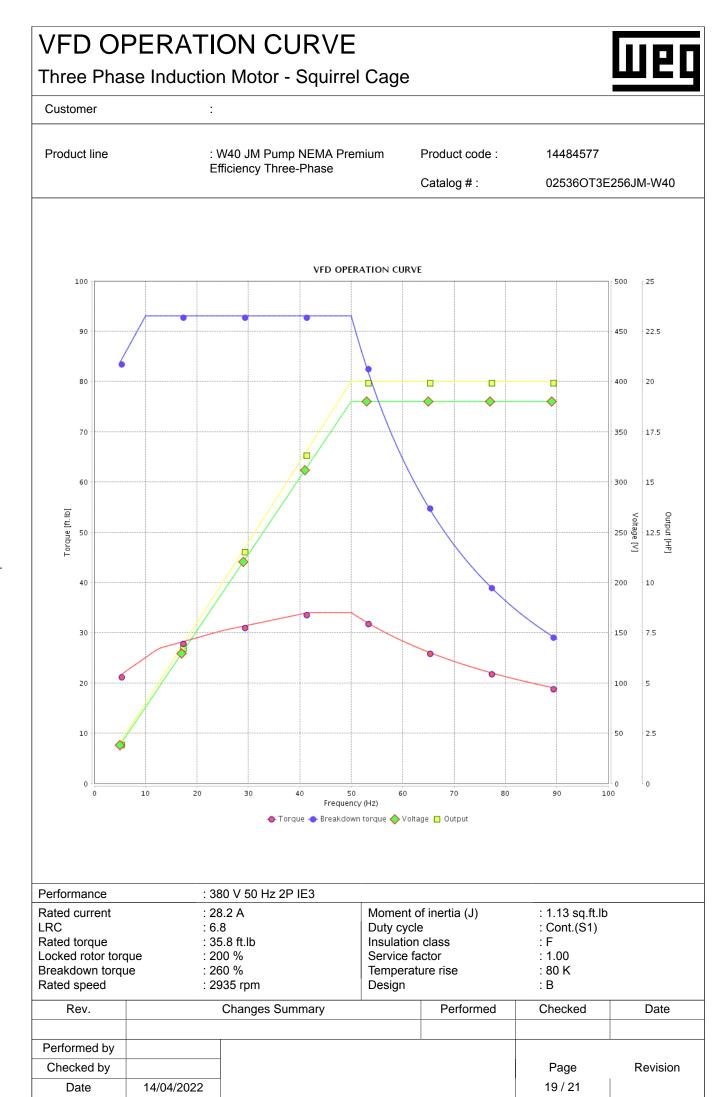
Product line		: W40 JM Pump NEMA Premium Efficiency Three-Phase		Product code :	14484577	14484577	
				Catalog # :	02536OT3E2	56JM-W40	
Performance	: 4	15 V 50 Hz 2P IE3					
Rated current LRC Rated torque Locked rotor torq	: 2 : 7. : 39 ue : 22	7.0 A .4 5.6 ft.lb 29 %	Duty cycle Insulation Service fa	class actor	: 1.13 sq.ft.lb : Cont.(S1) : F : 1.00		
Breakdown torqu Rated speed		20 % 950 rpm	Temperate Design	ure rise	: 80 K : B		
Heating constant			-				
Cooling constant							
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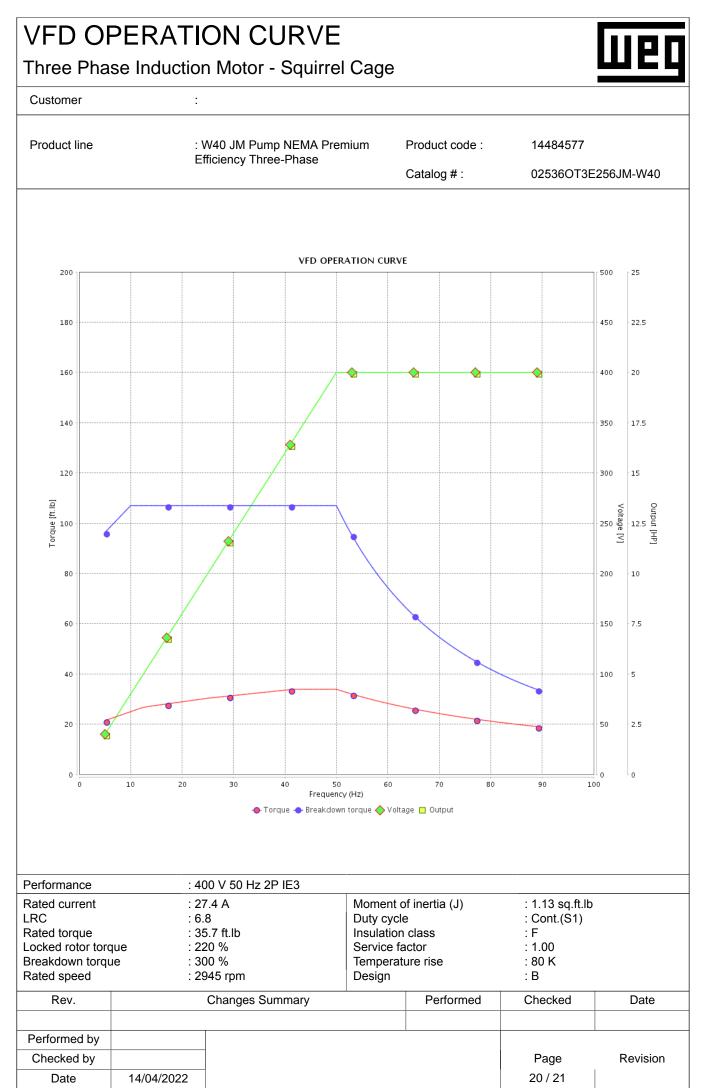




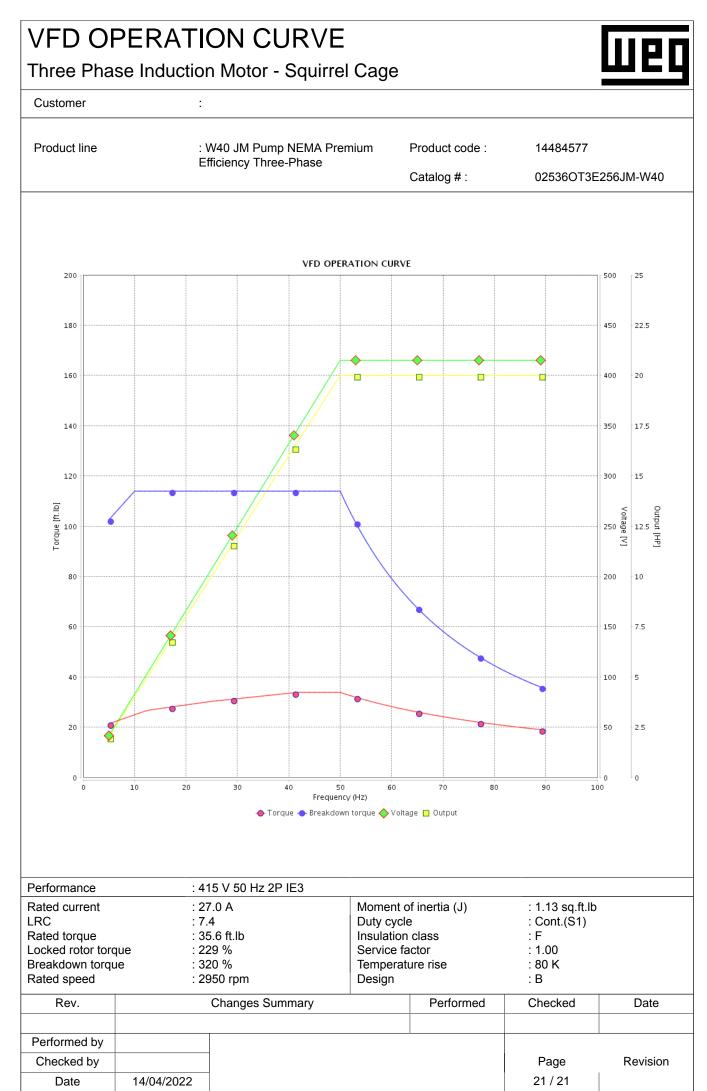
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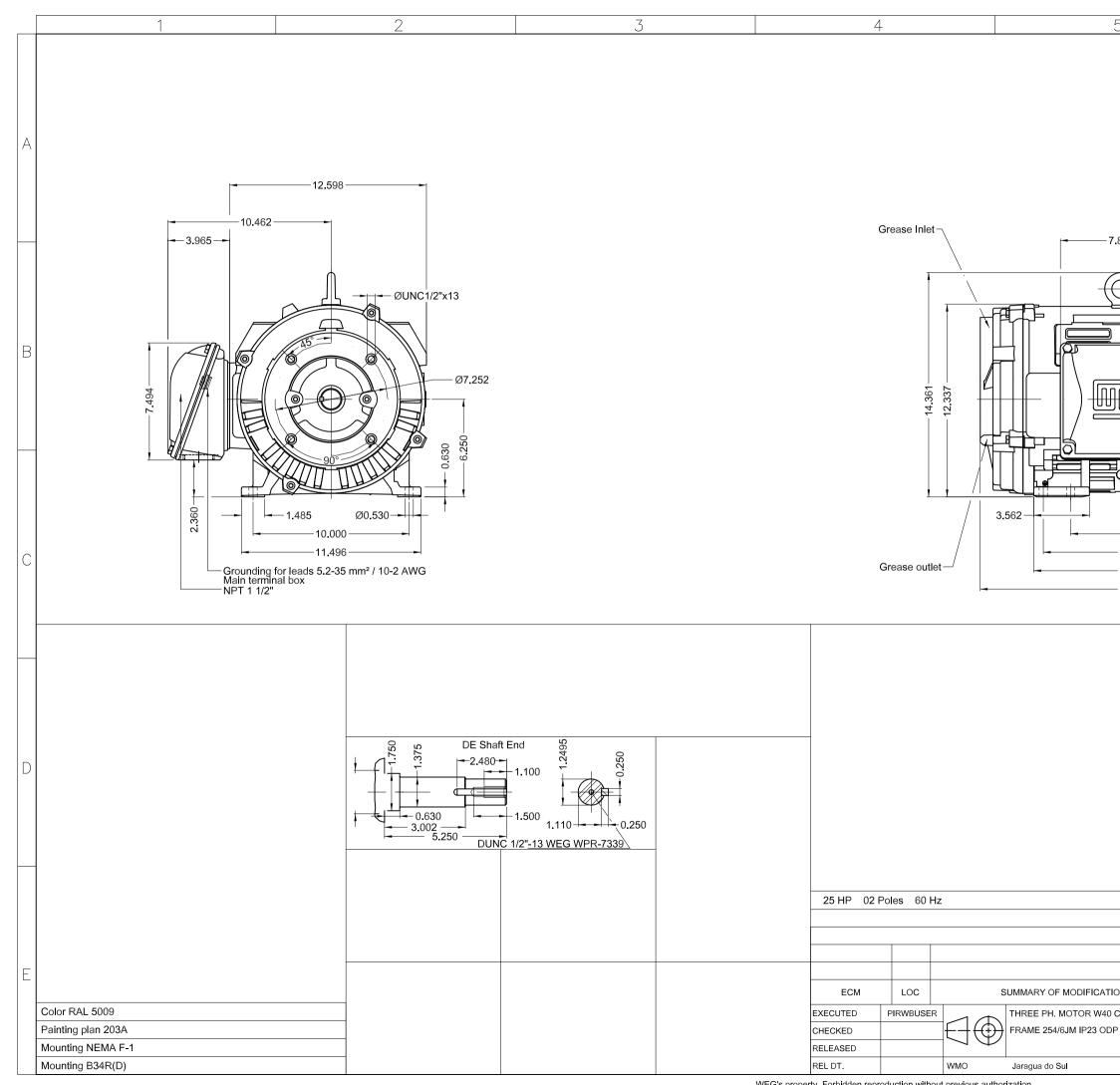
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