DATA SHEET

Three Phase Induction Motor - Squirrel Cage

:



| | | Phase | | m Efficiency 1 | hree- | Product code : | 11360894 | | | |
|--|---|---|----------------------------------|------------------|---|---|--|--|--|--|
| | | | | | | Catalog # : | 05036XT3H | 326TS | | |
| Frame Output Poles Frequency Rated voltage Rated current L. R. Amperes LRC No load current Rated speed Slip Rated torque Locked rotor torque Breakdown torque Insulation class Service factor | | : 326TS : 50 HP (37 kW) : 2 : 60 Hz : 575 V : 44.4 A : 320 A : 7.2x(Code H) : 11.8 A : 3560 rpm : 1.11 % : 73.8 ft.lb : 260 % : 260 % : F : 1.15 | | | Catalog # : Locked rotor time Temperature rise Duty cycle Ambient temperature Altitude Protection degree Cooling method Mounting Rotation ¹ Noise level ² Starting method Approx. weight ³ | | : 80 K : Cont.(S1) : -20°C to + : 1000 m.a. : IP55 : IC411 - TE : F-1 : Both (CW : 81.0 dB(A | : 59s (cold) 33s (hot) : 80 K : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : IC411 - TEFC : F-1 : Both (CW and CCW) : 81.0 dB(A) : Direct On Line | | |
| Moment of inerti Design | ia (J) | : 5.42 : B | 2 sq.ft.lb | | | | | | | |
| - | 050/ | | 750/ | 1000/ | Found - (| an looda | | | | |
| Dutput Efficiency (%) | 25% 91.8 | 50% 92.4 | 75% 93.6 | 100% 94.1 | Foundati Max. trac | | : 390 lb | | | |
| Power Factor | 91.8 0.58 | 92.4 0.82 | 93.6 0.88 | 94.1 0.89 | | npression | : 1082 lb | | | |
| Sealing Lubrication inter Lubricant amou | | : | | l Seal - | | Lip Seal - | | | | |
| Lubricant type | | | | POLYREA | ESTER OI | L (WT/ ENS) | | | | |
| Lubricant type | laces and o ed. notor from 1m and wir weight sub rocess. | the shaft e | end. e of +3dB(| ne, which | These a | L (WT/ ENS) | | | | |
| Lubricant type Notes This revision rep nust be eliminate 1) Looking the n 2) Measured at 3) Approximate nanufacturing pr | laces and o ed. notor from 1m and wir weight sub rocess. | the shaft e th toleranc ject to cha | end. e of +3dB(| ne, which A). | These a power s | re average values | | | | |
| Lubricant type Notes This revision rep nust be eliminati 1) Looking the n 2) Measured at 3) Approximate nanufacturing pr 4) At 100% of fu Rev. | laces and o ed. notor from 1m and wir weight sub rocess. | the shaft e th toleranc ject to cha | nd. e of +3dB(inges after | ne, which A). | These a power s | re average values upply, subject to th | e tolerances stipu | lated in NEMA | | |
| Lubricant type Notes This revision rep nust be eliminate 1) Looking the n 2) Measured at 3) Approximate nanufacturing pr 4) At 100% of fu | laces and o ed. notor from 1m and wir weight sub rocess. | the shaft e th toleranc ject to cha | nd. e of +3dB(inges after | ne, which A). | These a power s | re average values upply, subject to th | e tolerances stipu | lated in NEMA | | |

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Three Phase Induction Motor - Squirrel Cage

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Customer

| 1 | | Thermal protection | | | |
|-------------|-------------|----------------------|-----------|---------|-------------|
| ID | Application | Туре | Quantity | | Temperature |
| 1 | Winding | Thermostat - 2 wires | 1 x Phase | 15 | 55 °C |
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| Rev. | Chang | les Summary | Performed | Checked | Date |
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| erformed by | | | | | |
| Checked by | | | | Page | Revision |
| | | | | | |

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

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| Product line | : NEMA Premium Efficiency T Phase | hree- Product code : | | |
|---|--------------------------------------|--|--|--------------|
| | Phase | Catalog # : | | |
| | | | | |
| | TORQUE AND CURRE | NT VS SPEED CURVE | | |
| 3 | | | | 10 |
| 2.7 | | | | |
| | | | / | |
| 2.4 | | | | 8 |
| 2.1 | | | | 7 |
| | | | | |
| 1.8 | • | | | 6 |
| (în d) an 1.5 Jo L | | • | | Current (pu) |
| Torc | | | | Lad) |
| 1.2 | | | | 4 |
| 0.9 | | | | 3 |
| | | | | |
| 0.6 | | | | 2 |
| 0.3 | | | | 1 |
| | | | | |
| 0 10 | 20 30 40 5 Percent of sync | 0 60 70 hronous speed | 80 90 | 100 |
| | ◆ Torque - 1 p.u. = 73.8 ft.lb ◆ | Current - 1 p.u. = 44.4 A (575 V) | | |
| erformance | : 575 V 60 Hz 2P | | | |
| Rated current: 44.4 ALRC: 7.2Rated torque: 73.8 ft.lbLocked rotor torque: 260 %Breakdown torque: 260 %Rated speed: 3560 rpm | | loment of inertia (J) outy cycle nsulation class ervice factor emperature rise vesign | : 5.42 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B | |
| ocked rotor time | : 59s (cold) 33s (hot) | | · - | |
| Rev. | Changes Summary | Performed | Checked | Date |
| Performed by | | | | |
| Checked by Date 12/0 | | | Page 3 / 7 | Revision |

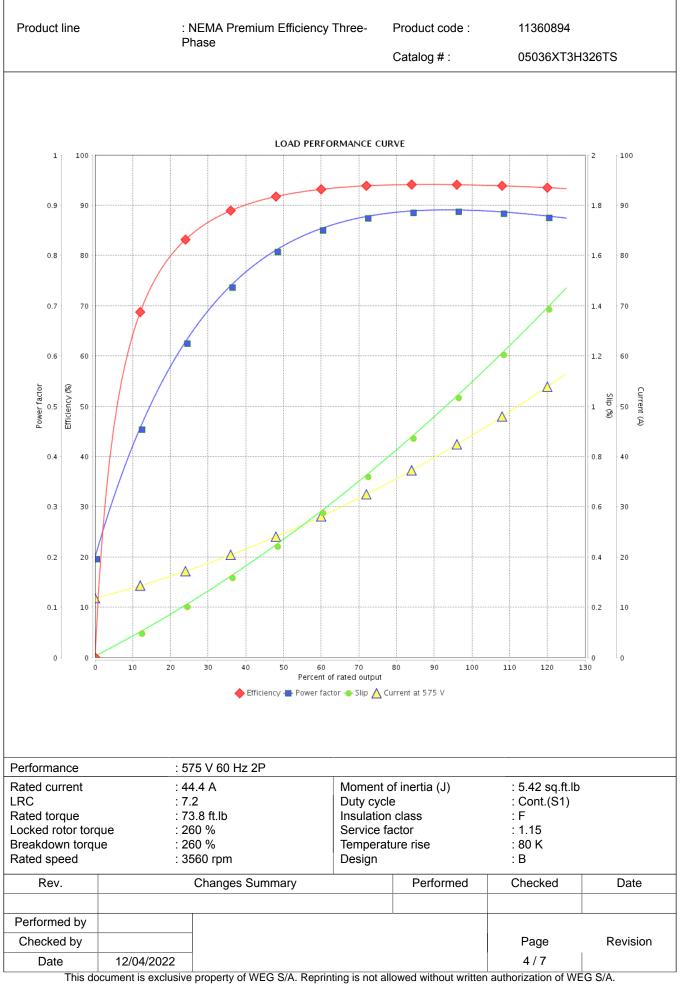
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

:



Customer



THERMAL LIMIT CURVE

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Three Phase Induction Motor - Squirrel Cage

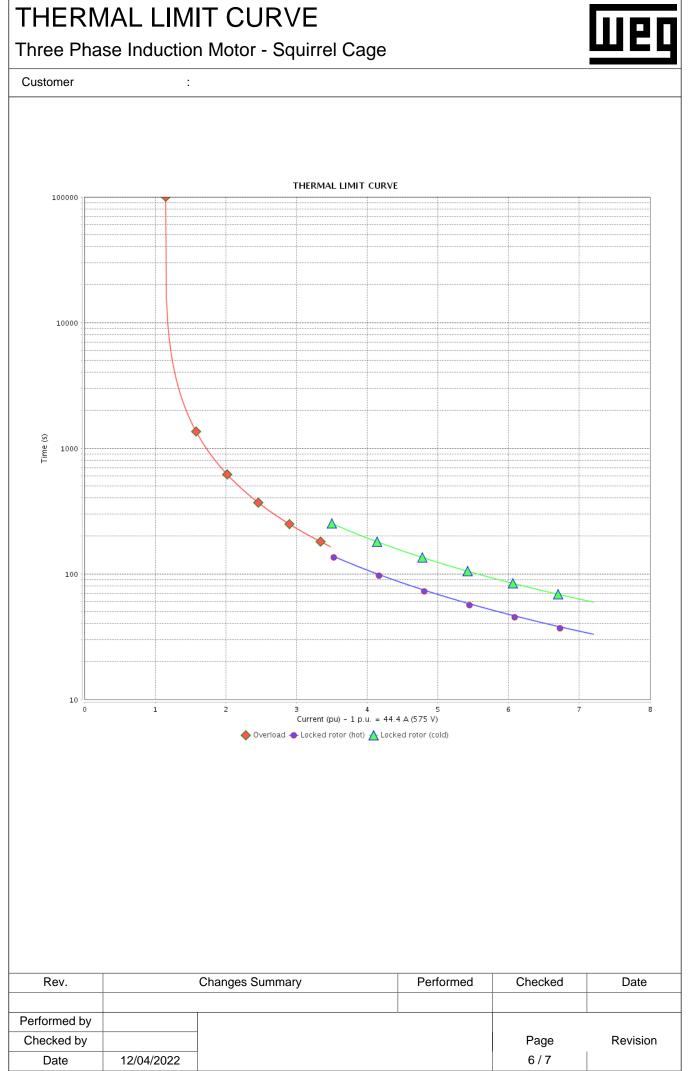
Customer

| Product line | : NEMA Premium Efficiency Three- Phase | Product code : | 11360894 | |
|--------------|---|----------------|----------------|--|
| | | Catalog # : | 05036XT3H326TS | |
| | | | | |

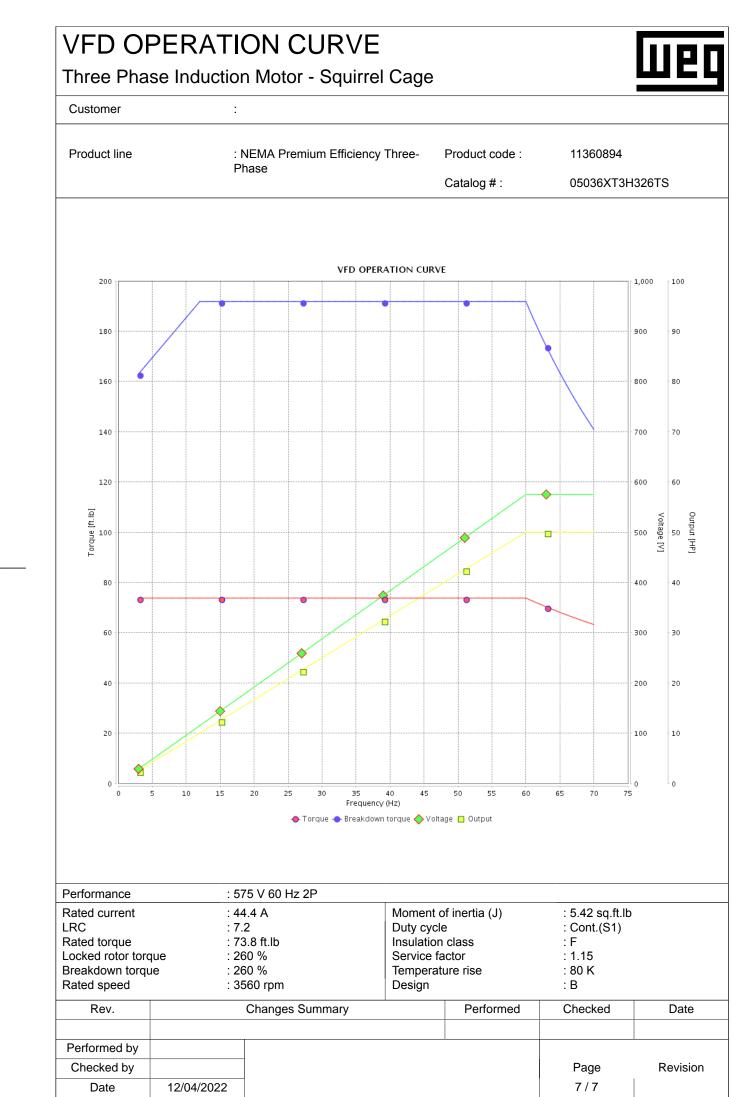
| Performance | : 5 | 575 V 60 Hz 2P | | | | |
|---|----------------------|---|---|-----------|--|----------|
| LRC : Rated torque : Locked rotor torque : Breakdown torque : Rated speed : | | 4.4 A .2 3.8 ft.lb 60 % 60 % 560 rpm | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design | | : 5.42 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B | |
| Heating constant | | | | | | |
| Cooling constant | | | | | | |
| Rev. | Rev. Changes Summary | | | Performed | Checked | Date |
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| Date | | | | | 5/7 | |

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