DATA SHEET

Three Phase Induction Motor - Squirrel Cage

:



| | | : NEM Phase | | m Efficiency ⊺ | | Product code : Catalog # : | 14306728 00158XT3⊦ | 1145T |
|--|--|--|--|------------------------|---|---|--|--|
| Frame Output Poles Frequency Rated voltage Rated current L. R. Amperes LRC No load current Rated speed Slip Rated torque Locked rotor torq Breakdown torqu Insulation class Service factor Moment of inertia Design | e | : 4 : 60 H : 575 : 1.64 : 14.6 : 8.9x : 0.96 : 175 : 2.50 : 4.49 : 270 : 350 : F : 1.15 | HP (1.1 kV Iz V A G(Code L) 60 A 5 rpm 9 % 9 ft.lb % % | | Locked Temper Duty cy Ambien Altitude Protecti Cooling Mountin Rotation Noise le Starting | rotor time ature rise cle t temperature on degree method | : 25s (cold) : 80 K : Cont.(S1) : -20°C to - : 1000 m.a : IP55 : IC411 - TI : F-1 |) 14s (hot) +40°C .s.l. EFC / and CCW) |
| Output | 25% | 50% | 75% | 100% | Foundatio | on loads | | |
| Efficiency (%) Power Factor | 80.2 0.34 | 81.5 0.58 | 85.5 0.70 | 86.5 0.78 | Max. tract Max. com | tion | : 100 lb : 173 lb | |
| Bearing type Sealing Lubrication interv | | : | | 05 2RS il Seal - | | 6204 2RS Lip Seal - | | |
| Lubricant amoun Lubricant type Notes | | : | | - Mo | bil Polyrex | EM | | |
| Lubricant type | aces and o d. otor from m and wit veight sub | the shaft e | nd. e of +3dB(| one, which A). | These an | e average values | based on tests w he tolerances stipu | |
| Lubricant type Notes This revision repla must be eliminate (1) Looking the mi (2) Measured at 1 (3) Approximate w manufacturing pro- | aces and o d. otor from m and wit veight sub | the shaft e th tolerance ject to cha | nd. e of +3dB(| one, which A). | These arr power su | e average values | | |

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DATA SHEET

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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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

:



Customer

| Product line | : NEMA Premium Efficiency T | hree- Product code : | 14306728 | | |
|--|---|-------------------------------------|-------------------|--------------|--|
| | Phase | Catalog # : | 00158XT3H1 | 0158XT3H145T | |
| | | | | | |
| | TORQUE AND CURR | ENT VS SPEED CURVE | | | |
| 5 | | | | 10 | |
| | | | | | |
| 4.5 | • | | | 9 | |
| | | | | | |
| 4 - | | | | 8 | |
| | | | | | |
| 3.5 | | | | 7 | |
| | | | | 6 | |
| 3 | | | • | 6 | |
| Dr.5 | | | 4 | Current (pu) | |
| L orgu | | | | , ut (pu) | |
| 2 | | | | | |
| 2 | | | | | |
| 1.5 | | | | 3 | |
| | | | | | |
| 1 | | | | 2 | |
| | | | | \mathbb{N} | |
| 0.5 | | | | 1 | |
| | | | | | |
| 0 | | | | | |
| 0 | Percent of syn | 50 60 70 Chronous speed | 80 90 | 100 | |
| | ◆ Torque - 1 p.u. = 4.49 ft.lb ◀ | - Current - 1 p.u. = 1.64 A (575 V) | | | |
|) o uf o uno | | | | | |
| rformance : 575 V 60 Hz 4P ted current : 1.64 A Mor | | Noment of inertia (J) | : 0.1303 sq.ft.lb | | |
| RC : 8.9 Duty c | | Outy cycle | cycle : Cont.(S1) | | |
| ocked rotor torque | : 270 % | Service factor | : 1.15 | | |
| Breakdown torque Rated speed | | emperature rise Design | : 80 K : B | | |
| ocked rotor time | : 25s (cold) 14s (hot) | - | | | |
| Rev. | Changes Summary | Performed | Checked | Date | |
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| Checked by | | | Page | Revision | |

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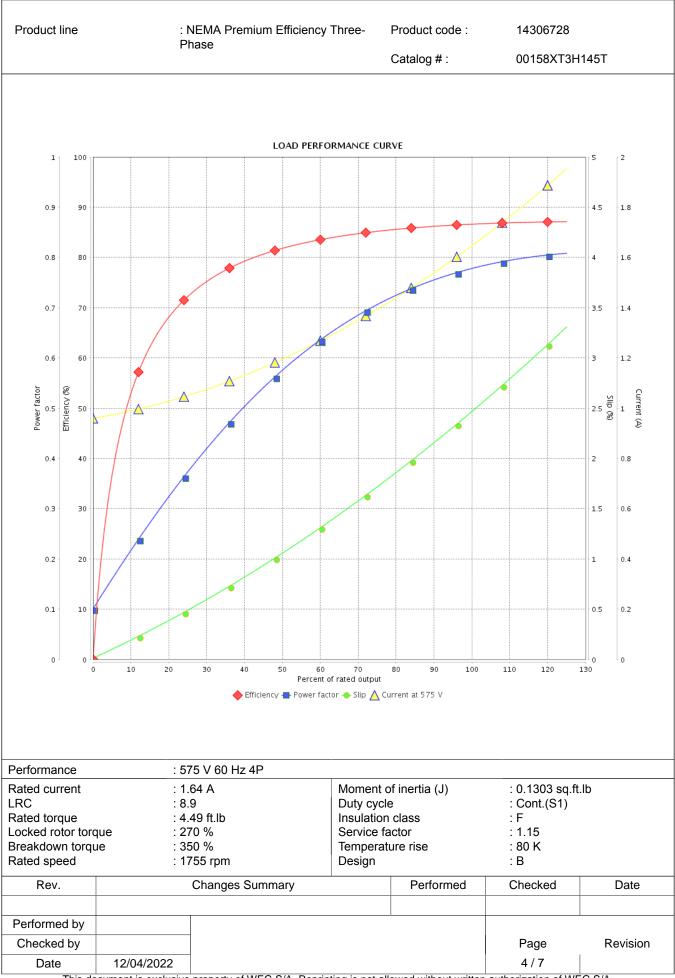
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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Customer



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THERMAL LIMIT CURVE

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Three Phase Induction Motor - Squirrel Cage

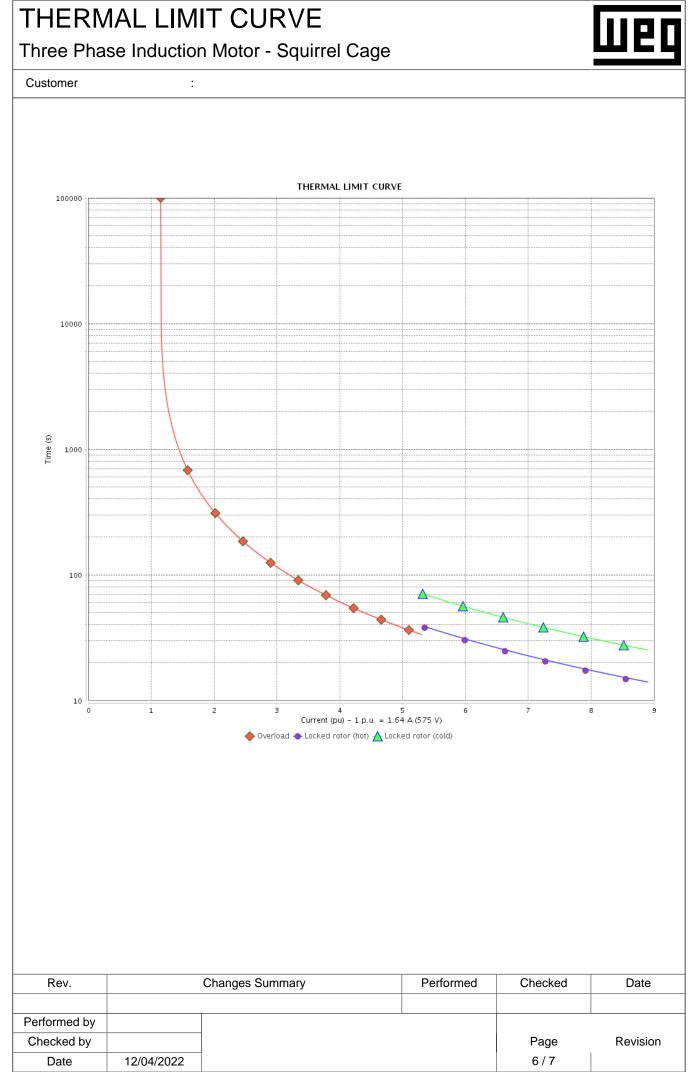
Customer

| ······································ | roduct code : | 14306728 | |
|--|---------------|---------------|--|
| Phase Cata | atalog # : (| 00158XT3H145T | |

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| Performance | : 5 | 75 V 60 Hz 4P | | | | |
|---|----------------------|---|---|-----------|--|----------|
| Rated current LRC Rated torque Locked rotor torque Breakdown torque | | .64 A 9.9 9.49 ft.lb 170 % 150 % 755 rpm | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design | | : 0.1303 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B | |
| Heating constant | | | | | | |
| Cooling constant | | | | | | |
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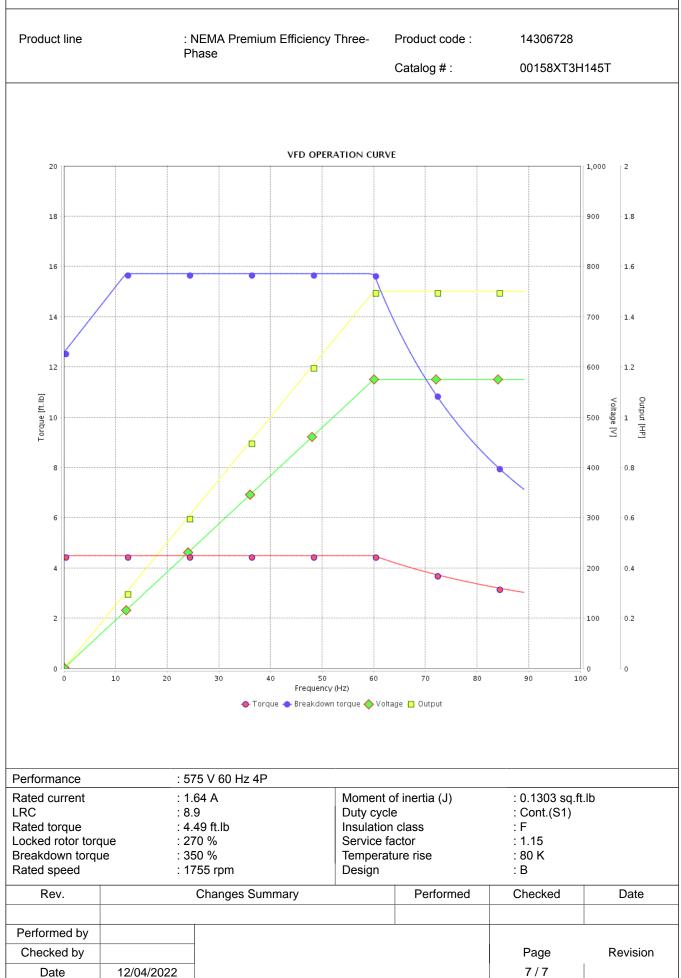
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VFD OPERATION CURVE

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