DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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Customer

| Frame ::182/4TC Cooling method ::CA11 - TEFC Insulation class :F Cont(\$1) Relation* :B :Delation* :B :Delation* :B :Delation* :B :Delation* :B :Delation* :B :Delation* :Delation* </th <th>Product line</th> <th></th> <th>: W21 Explosion Proo Premium Efficiency Th</th> <th></th> <th></th> <th>roduct code :</th> <th>1445134</th> <th>45</th> | Product line | | : W21 Explosion Proo Premium Efficiency Th | | | roduct code : | 1445134 | 45 |
|--|--|---|---|-------------------|---|--|---|----------|
| Poles 2 <td colspan="2">Insulation class Duty cycle Ambient temperature Altitude Protection degree</td> <td colspan="2">: F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55</td> <td colspan="2">Mounting Rotation¹ Starting method Approx. weight³</td> <td colspan="2">: F-1 : Both (CW and CCW) : Direct On Line : 61.0 kg</td> | Insulation class Duty cycle Ambient temperature Altitude Protection degree | | : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 | | Mounting Rotation ¹ Starting method Approx. weight ³ | | : F-1 : Both (CW and CCW) : Direct On Line : 61.0 kg | |
| Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated voltage [V] 230/460 380 400 415 Rated current [A] 12,2/6,10 7,30 6,94 6,84 L.R. Amperes [A] 91,5/45,7 41,6 44,4 47,2 No load current [A] 4,402,20 2,15 2,40 2,60 Rated soved [RPM] 3490 2850 2865 2875 Stated toroug [Rpf] 1,04 1,27 1,27 1,26 Locked rotor torque [%] 380 280 310 340 Service factor 1,15 1,00 1,00 1,00 Iterperature rise 80 K 60 (cold) 26s (hot) 46s (cold) 26s (hot) 46s (cold) 26s (hot) 46s (cold) 26s (hot) Cocked rotor time 46s (cold) 26s (hot) | Output [HP] | | | | | | | |
| Rated voltage [V] 220/460 380 400 415 Rated current [A] 12.2/610 7.30 6.94 6.84 LR, Amperers [A] 91.5/45.7 41.6 44.4 47.2 LRC [A] 7.5X(Code J) 5.7X(Code F) 6.4x(Code G) 6.9x(Code H) No load current [A] 4.402.20 2.15 2.40 2.60 Rated speed [RPM] 3.490 2855 2875 306 5.00 4.50 4.17. Rated speed [RPM] 3.06 5.00 4.50 4.17. 7.126 1.26 Locked rotor torque [%] 3.80 2.80 3.10 340 | | | | | | | | |
| Rated ourrent [Å] 12.2/6.10 7.30 6.94 6.84 L. R. Amperes [Å] 91.5/45.7 41.6 44.4 47.2 RC [Å] 7.5x(Code J) 5.7x(Code F) 6.4x(Code G) 6.9x(Code H) No load current [Å] 4.40/2.20 2.15 2.40 2.60 Rated speed [PM] 3.400 2850 2865 2875 Sile [%] 3.06 5.00 4.50 4.17 Rated torque [%] 3.06 200 228 260 Breakdown torque [%] 3.80 280 310 340 Service factor 1.15 1.00 1.00 1.00 Ifficiency (%) 25% 80.K 80 K 80 K 80 K Cocker otor torue 465 (cold) 26s (ht) 465 (cold | | | | | | | | |
| L. R. Amperes [A] 915/45.7 41.6 44.4 47.2 LRC [A] 7.5x(Code J) 5.7x(Code F) 6.4x(Code G) 6.9x(Code H) No load current [A] 4.40/2.20 2.15 2.40 2.60 Rated speed [RPM] 3490 2865 2865 2875 Silp [%] 3.06 5.00 4.50 4.17 Rated speed [RPM] 1.04 1.27 1.27 1.26 cocked rotor torque [%] 380 280 310 340 Service factor 1.15 1.00 1.00 1.00 Emperature rise 80 K 80 K 80 K 80 K 80 K Noise level* 690.0 B(A) 64.0 dB(A) 64.0 dB(A) 64.0 dB(A) 64.0 dB(A) Efficiency (%) 25% 87.5 87.5 87.5 87.5 For% 87.5 87.5 87.5 87.5 87.5 Forwise level* 0.86 0.83 0.86 0.83 0.86 Power Factor 75% | | | | | | | | |
| RC [A] 7.5x(Code J) 5.7x(Code F) 6.4x(Code G) 6.9x(Code H) vs load currer [A] 4.40/2.20 2.15 2.40 2.60 ated speed [RPM] 3.900 2850 2865 2875 Stated speed [RPM] 3.06 5.00 4.50 4.17 stated torque [Kgfm] 1.04 1.27 1.27 1.26 cocked rotor torque [Kg] 250 200 229 260 Straktown torque [Kg] 380 280 310 340 Straktown torque [Kg] 380 280 310 340 Straktown torque [Kg] 80 K | | | | | | | | |
| No load current [A] 4.402.20 2.15 2.40 2.60 Stated speed [RPM] 3490 2860 2865 2875 Stated speed [RPM] 1.04 1.27 1.27 1.26 Scoked rotor torque [%] 250 200 229 260 Streakdown torque [%] 380 280 310 340 Service factor 1.15 1.00 1.00 1.00 femperature rise 80 K 80 K <td></td> <td></td> <td></td> <td>57</td> <td></td> <td></td> <td></td> <td></td> | | | | 57 | | | | |
| Sated speed [RPM] 3490 2850 2865 2875 Slip [%] 3.06 5.00 4.50 4.17 Slip [%] 3.06 5.00 4.50 4.17 Sceled torque [%] 250 200 229 2260 Service factor 1.15 1.00 1.00 340 Service factor 1.15 1.00 1.00 1.00 Importune [%] 380 280 310 340 Service factor 1.15 1.00 1.00 1.00 Importune [%] 69.0 dB(A) 64.0 dB(A) 64.0 dB(A) 64.0 dB(A) Cocked rot rime 46s (coid) 26s (ht) 46s (coid) 26s (ht) 46s (coid) 26s (ht) 46s (coid) 26s (ht) Sign [%] 25% 86.5 86.5 86.5 86.5 Power Factor 25% 88.5 86.5 87.5 87.5 Power Factor 50% 0.70 0.76 0.72 0.69 100% 0.81 0.86 0.83 0.80 </td <td></td> <td>1</td> <td></td> <td>5.7</td> <td></td> <td></td> <td></td> <td></td> | | 1 | | 5.7 | | | | |
| Bill [P6] 3.06 5.00 4.50 4.17 Rated torque [kg/m] 1.04 1.27 1.27 1.26 Cacked rotr torque [%] 380 280 310 340 Breakdown torque [%] 660 dB(A) 64.0 dB(A) 46.0 dB(A) 64.0 dB(A) Cacked rotor time 465 (cold) 265 (hot) 465 86.5 86.5 86.5 Efficiency (%) 50% 85.5 86.5 87.5 87.5 87.5 Power Factor 50% 0.70 0.76 0.72 0.69 0.80 Iubrication interval : - - - - - Lubricatin amount | | | | | | | | |
| Stated torque [kg/m] 1.04 1.27 1.27 1.26 Locked rotor torque [%] 250 200 229 260 Service factor 1.15 1.00 1.00 340 Service factor 1.15 1.00 1.00 1.00 Imperature rise 80 K 80 K 80 K 80 K 80 K Locked rotor time 46s (cold) 26s (hot) 46s (c | | vi] | | | | | | |
| cocked rotor torque [%] 250 200 229 260 3reakdown torque [%] 380 280 310 340 Service factor 1.15 1.00 1.00 1.00 femperature rise 80 K 80 K 80 K 80 K 80 K cocked rotor time 46s (cold) 26s (hot) | | nl | | | | | | |
| Sreakdown torque [%] 380 280 310 340 Service factor 1.15 1.00 1.00 1.00 Emperature rise 80 K 80 K 80 K 80 K 80 K Locked rotor time 46s (cold) 26s (hot) | | | | | | | | |
| Dervice factor 1.15 1.00 1.00 1.00 1.00 fernperature rise 80 K 81 0 86 0 81 0 86 0 83 0 80 0 80 0 80 0 80 0 80 0 80 K 8 | | | | | | | | |
| Femperature rise 80 K 80 K <td></td> <td>. [, 6]</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | . [, 6] | | | | | | |
| Locked rotor time 46s (cold) 26s (hot) 64.0 dB(A) 64.0 dB(A) </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | | | |
| Noise level? 69.0 dB(A) 64.0 | | | | 465 (0 | | | | |
| 25% 86.5 86.5 86.5 86.5 86.5 86.5 86.5 86.5 86.5 86.5 86.5 86.5 87.5 | | | | | | | | |
| Efficiency (%) 50% 85.5 86.5 86.5 86.5 86.5 86.5 87.5 | | 25% | | | | | | |
| Efficiency (%) 75% 87.5 | | | 85.5 | | 86.5 | 86 | .5 | 86.5 |
| 100% 88.5 86.5 87.5 87.5 Power Factor 25% | Efficiency (%) | | | | | | | |
| Power Factor 25% 0.70 0.76 0.72 0.69 75% 0.81 0.86 0.83 0.80 100% 0.86 0.83 0.80 Bearing type : 6307 2RS 6206 2RS Sealing : Oil Seal Lip Seal Lubrication interval : - - Notes WSABLE @208V 13.5A SF 1.15 SFA 15.5A These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEM/ 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. (4) At 100% of full load | | | | | | | | |
| Power Factor 50% 0.70 0.76 0.72 0.69 75% 0.81 0.86 0.83 0.80 | | | | | | | | |
| Power Factor 75% 0.81 0.86 0.83 0.80 100% 0.86 0.89 0.88 0.88 0.86 Bearing type : 6307 2RS 6206 2RS Max. traction : 59 kgf Sealing : Oil Seal Lip Seal Max. compression : 120 kgf Lubrication interval : - - - - Lubricant amount : - - - Lubricant type : Mobil Polyrex EM Max. compression : 120 kgf Notes USABLE @208V 13.5A SF 1.15 SFA 15.5A These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEM/ MG-1. (1) Looking the motor from the shaft end. . . MG-1. (3) Approximate weight subject to changes after manufacturing process. . Performed Changes Summary Rev. Changes Summary Performed Checked Date Performed by | | | 0.70 | | 0.76 | 0.7 | 72 | 0.69 |
| Image: 100% 0.86 0.89 0.88 0.86 Bearing type : 6307 2RS 6206 2RS Max. traction :59 kgf Sealing : Oil Seal Lip Seal Max. compression :120 kgf Lubrication interval : - - - Lubrication interval : - - - Lubricant amount : - - - Lubricant type : Mobil Polyrex EM Max. compression : 120 kgf Notes WSABLE @208V 13.5A SF 1.15 SFA 15.5A These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEM/ 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 | Power Factor | | | | | | | |
| Drive end Bearing type Non drive end 6307 2RS Foundation loads Sealing Oil Seal Lip Seal Lubrication interval - - Lubricant amount - - Lubricant type Mobil Polyrex EM Max. compression : 120 kgf Notes Mobil Polyrex EM Mobil Polyrex EM Max. compression : 120 kgf Notes USABLE @208V 13.5A SF 1.15 SFA 15.5A These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEM/ MG-1. MG-1. This revision replaces and cancel the previous one, which must be eliminated. MG-1. 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. compression Performed Decked Date Performed by | | | | | | | | |
| Notes USABLE @208V 13.5A SF 1.15 SFA 15.5A 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 NEM/ 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. (4) At 100% of full load. Rev. Changes Summary Performed Checked Date Performed by Page Revision | Sealing Lubrication interv | | : 6307 2RS 620 | 6307 2RS 6206 2RS | | Foundation loads Max. traction : 59 kgf | | |
| must be eliminated. 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). 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 | ′ 13.5A SF 1. | · · · · · · · · · · · · · · · · · · · | -M | | | | |
| Performed by Page Revision | must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro- | ed. notor from the 1m and with t weight subjec ocess. | shaft end. olerance of +3dB(A). | nich | power sup | | | |
| Checked by Page Revision | Rev. | | Changes Summary | | | Performed | Checked | Date |
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DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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Customer

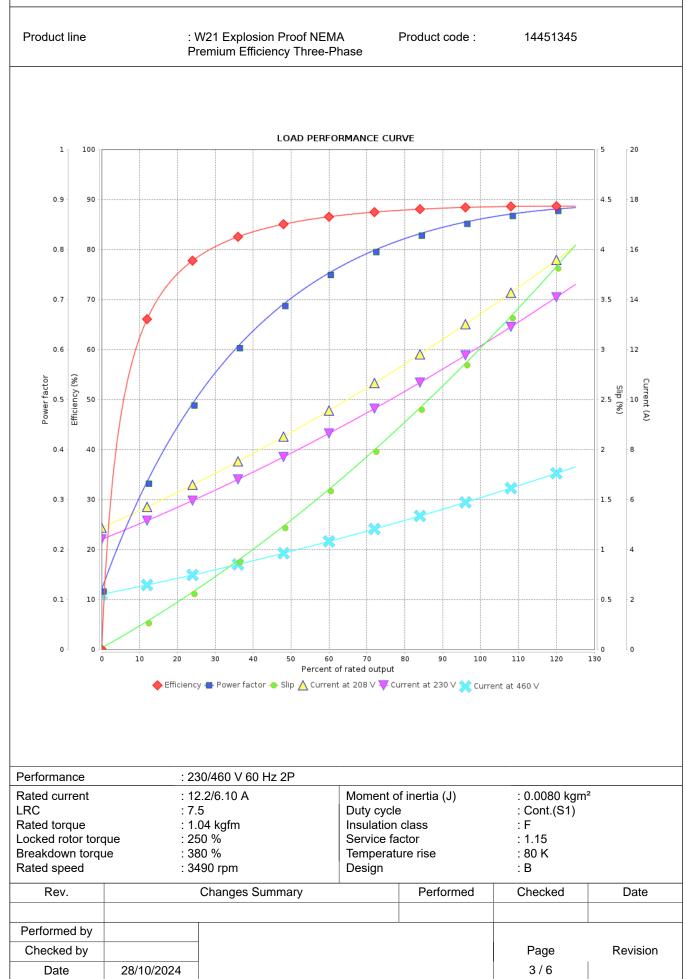
| ID | Application | Thermal protection Application Type Quantity | | | | | |
|----------------------------|-------------|---|-----------|---------|-----------------------------|--|--|
| 1 | Winding | Thermostat - 2 wires | 1 x Phase | | Temperature 55 °C | | |
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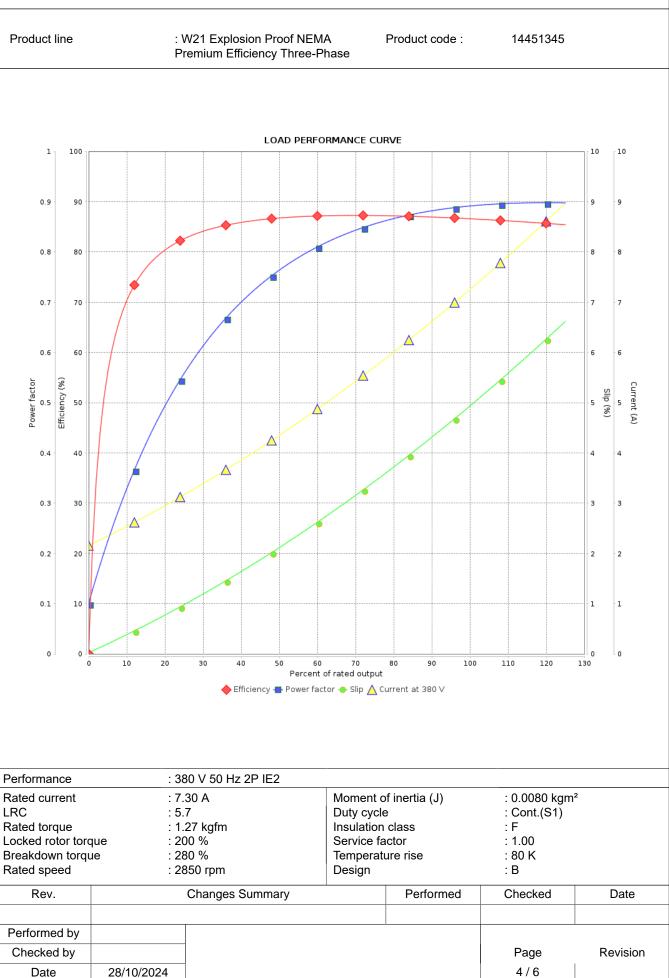
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Three Phase Induction Motor - Squirrel Cage

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Customer



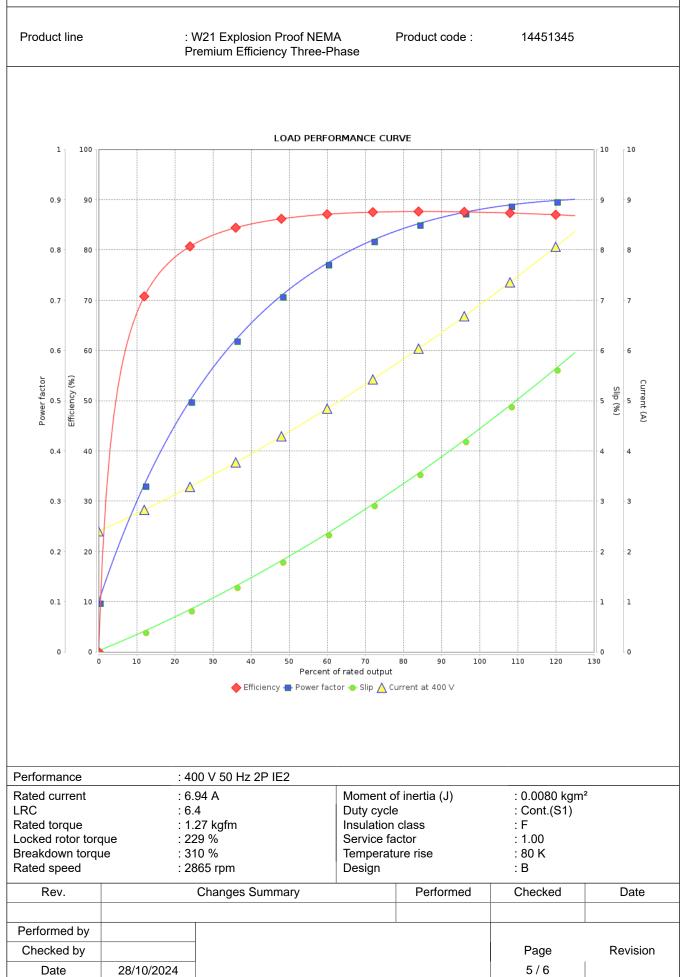
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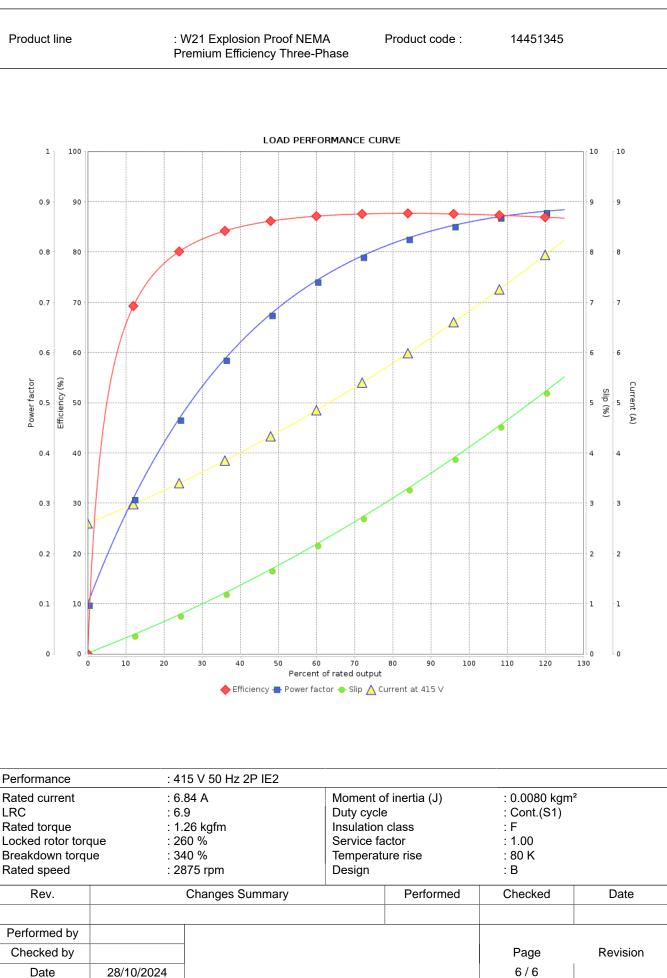
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