### DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 P Base NEMA Premium Efficiency Product code: 13017860 Three-Phase : 143HP Cooling method : IC411 - TEFC Frame Insulation class : F Mounting : W-6 Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 23.3 kg Altitude Protection degree : IP55 Moment of inertia (J) : 0.0049 kgm<sup>2</sup> Design : B Output [HP] 1 1 1 1 Poles 4 4 4 4 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 2.94/1.47 1.71 1.65 1.63 L. R. Amperes [A] 25.3/12.6 10.9 11.5 12.1 LRC [A] 8.6x(Code M) 6.4x(Code J) 7.0x(Code K) 7.4x(Code K) No load current [A] 1.88/0.940 0.930 1.00 1.08 Rated speed [RPM] 1760 1450 1455 1455 Slip [%] 2.22 3.33 3.00 3.00 Rated torque [kgfm] 0.412 0.501 0.499 0.499 Locked rotor torque [%] 290 220 240 260 Breakdown torque [%] 350 250 290 310 Service factor 1.25 1.25 1.25 1.25 Temperature rise 80 K 80 K 80 K 80 K 32s (cold) 18s (hot) Locked rotor time 32s (cold) 18s (hot) 32s (cold) 18s (hot) 32s (cold) 18s (hot) Noise level<sup>2</sup> 51.0 dB(A) 49.0 dB(A) 49.0 dB(A) 49.0 dB(A) 25% 78.4 79.6 78.4 78.4 50% 80.0 80.0 80.0 80.0 Efficiency (%) 75% 84.0 82.5 82.5 82.5 100% 85.5 82.5 84.0 84.0 25% 0.31 0.36 0.33 0.31 50% 0.55 0.62 0.58 0.55 Power Factor 75% 0.68 0.74 0.71 0.69 0.75 0.78 0.76 100% 0.81 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 15.9 15.9 15.9 15.9 P2 (0,5;1,0) 12.8 12.8 12.8 12.8 P3 (0,25;1,0) 12.5 12.5 12.5 12.5 P4 (0,9;0,5) 10.1 10.1 Losses (%) 10.1 10.1 P5 (0,5;0,5) 7.0 7.0 7.0 7.0 P6 (0,5;0,25) 5.8 5.8 5.8 5.8 P7 (0,25;0,25) 4.3 4.3 4.3 4.3 Non drive end Foundation loads Drive end Bearing type 6307 ZZ 6204 ZZ Max. traction Sealing V'Ring V'Ring Max. compression Lubrication interval Lubricant amount Lubricant type Mobil Polyrex EM This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal 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). (3) Approximate weight subject to changes after manufacturing process.

Rev.		Changes Summary	Performed	Checked	Date	
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Date	14/01/2024			1/6		
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Three Pha	se Induction Motor - Squirrel Cage			<u> </u>
Customer	:			
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Date	14/01/2024			2/6	

### Three Phase Induction Motor - Squirrel Cage

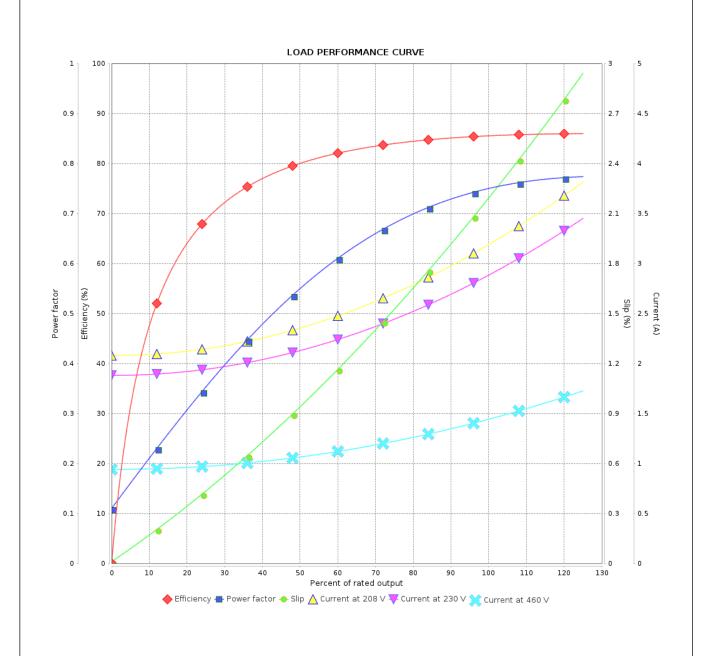


Customer :

Product line : W22 P Base NEMA Premium Efficiency

Three-Phase

Product code: 13017860



Performance	: 2	30/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu	: 8 : 0 ue : 2	: 2.94/1.47 A : 8.6 : 0.412 kgfm : 290 % : 350 % : 1760 rpm		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		2
Rated speed					: B	
Rev.				Performed	Checked	Date
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Checked by					Page	Revision
Date	14/01/2024				3/6	

#### Three Phase Induction Motor - Squirrel Cage



Customer :

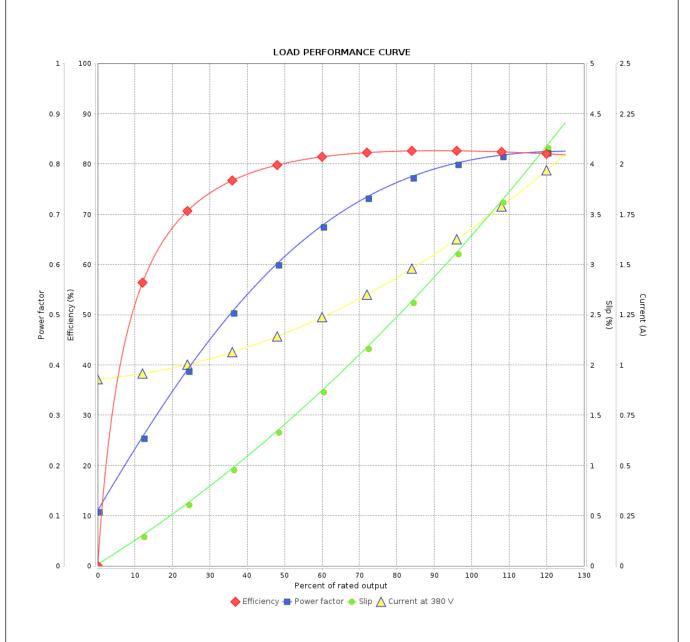
Date

14/01/2024

Product line : W22 P Base NEMA Premium Efficiency

Three-Phase

Product code: 13017860



Performance : 380 V 50 Hz 4P IE3 : 1.71 A : 0.0049 kgm<sup>2</sup> Rated current Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 6.4 : 0.501 kgfm Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1450 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

4/6

### Three Phase Induction Motor - Squirrel Cage



Customer

Date

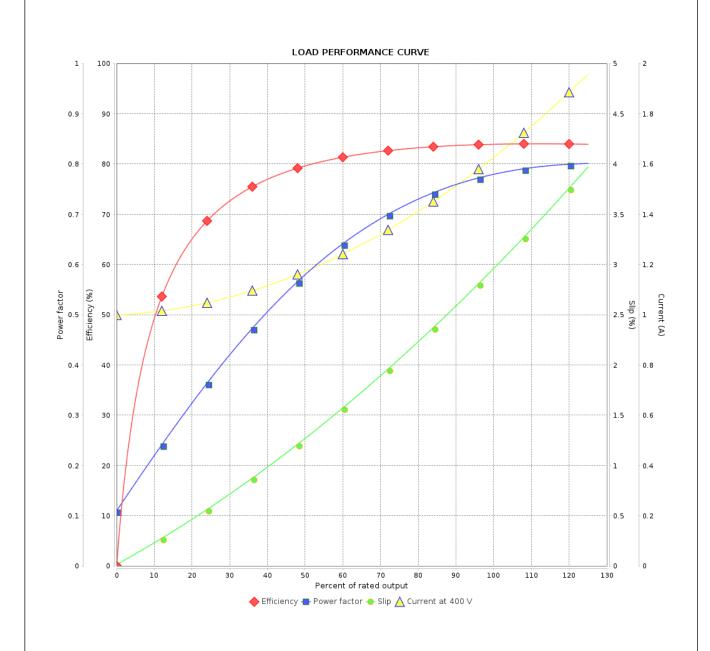
14/01/2024

Product line : W22 P Base NEMA Premium Efficiency

Three-Phase

Product code:





Performance	: 400 V 50 Hz 4P IE3					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.65 A : 7.0 : 0.499 kgfm : 240 % : 290 % : 1455 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0049 kgm² : Cont.(S1) : F : 1.25 : 80 K : B		
Rev.	Changes Summary		Performed	Checked	Date	
Performed by						
Checked by				Page	Revision	

5/6

#### Three Phase Induction Motor - Squirrel Cage



Customer :

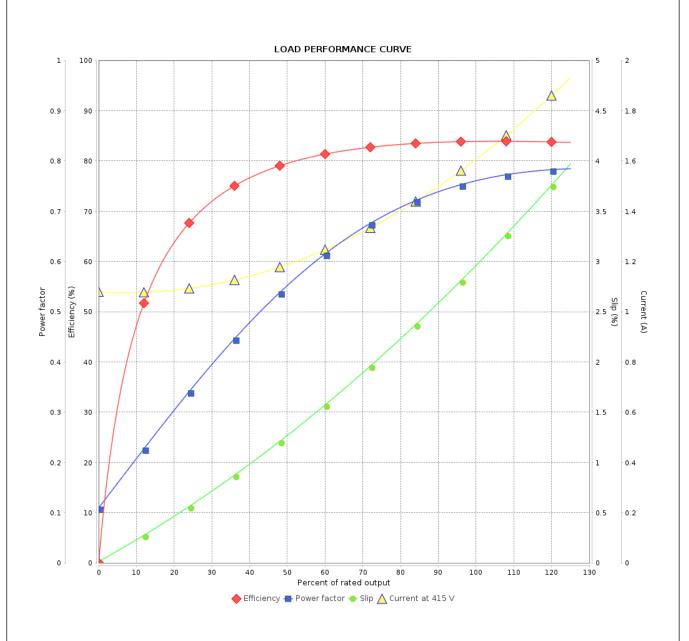
Date

14/01/2024

Product line : W22 P Base NEMA Premium Efficiency

Three-Phase

Product code: 13017860



Performance : 415 V 50 Hz 4P IE3 : 1.63 A : 0.0049 kgm<sup>2</sup> Rated current Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 7.4 : 0.499 kgfm Insulation class Rated torque : F Locked rotor torque : 260 % Service factor : 1.25 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 1455 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

6/6