### **DATA SHEET**

Checked by

Date

20/10/2024

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 11723870 Three-Phase Frame : 182/4T Cooling method : IC411 - TEFC Insulation class Mounting : F-1 : F 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> Altitude : 39.0 kg Protection degree : IP55 Moment of inertia (J) : 0.0143 kgm<sup>2</sup> Design : B Output [HP] 3 3 3 3 Poles 4 4 4 4 50 Frequency [Hz] 60 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 7.82/3.91 4.78 4.54 4.43 L. R. Amperes [A] 63.3/31.7 30.1 32.2 33.7 LRC [A] 8.1x(Code K) 6.3x(Code H) 7.1x(Code J) 7.6x(Code K) No load current [A] 4.00/2.00 2.00 2.10 2.25 Rated speed [RPM] 1760 1445 1450 1455 Slip [%] 2.22 3.67 3.33 3.00 Rated torque [kgfm] 1.24 1.51 1.50 1.50 Locked rotor torque [%] 220 220 220 240 Breakdown torque [%] 330 250 290 320 Service factor 1.25 1.25 1.25 1.25 Temperature rise 80 K 80 K 80 K 80 K 32s (cold) 18s (hot) 32s (cold) 18s (hot) 32s (cold) 18s (hot) Locked rotor time 41s (cold) 23s (hot) Noise level<sup>2</sup> 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 25% 50% 87.5 87.5 87.5 87.5 Efficiency (%) 75% 88.5 87.5 87.5 87.5 100% 89.5 87.5 87.5 87.5 25% 50% 0.61 0.68 0.64 0.61 Power Factor 75% 0.71 0.77 0.75 0.73 0.79 0.80 0.80 0.79 100% Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 13.4 13.4 11.0 13.4 P2 (0,5;1,0) 10.8 10.8 8.9 10.8 P3 (0,25;1,0) 10.7 8.8 10.7 10.7 P4 (0,9;0,5) 7.4 7.4 Losses (%) 6.1 7.4 P5 (0,5;0,5) 4.9 4.9 4.9 4.0 P6 (0,5;0,25) 3.0 3.6 3.6 3.6 P7 (0,25;0,25) 2.1 2.6 2.6 2.6 Non drive end Foundation loads Drive end Bearing type 6207 ZZ 6206 ZZ Max. traction : 81 kaf Sealing V'Ring V'Ring Max. compression : 120 kgf 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 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. Performed Checked Rev. **Changes Summary** Date Performed by

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Three Pha	se Inductio	n Motor - Squi	rrel Cage			ШЕЦ
Customer	:					
Notes USABLE @208\	√ 8.65A SF 1.15 \$	6FA 9.95A				
Rev.		Changes Summary		Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



Customer :

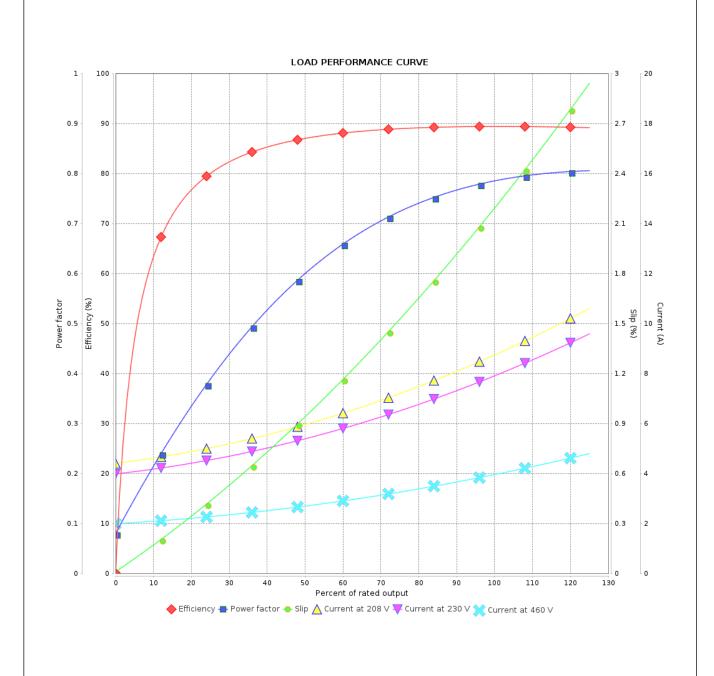
Checked by

Date

20/10/2024

Product line : W22 NEMA Premium Efficiency Product code : 11723870

Three-Phase



Performance	: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.82/3.91 A : 8.1 : 1.24 kgfm : 220 % : 330 % : 1760 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 0.0143 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

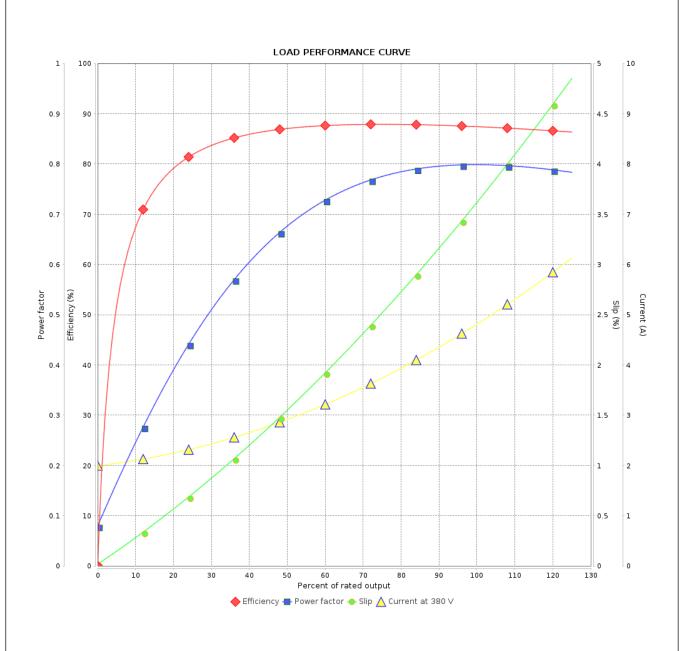
Date

20/10/2024

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11723870



Performance : 380 V 50 Hz 4P IE3 : 0.0143 kgm<sup>2</sup> Rated current : 4.78 A Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 6.3 Insulation class Rated torque : 1.51 kgfm : F Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1445 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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### Three Phase Induction Motor - Squirrel Cage

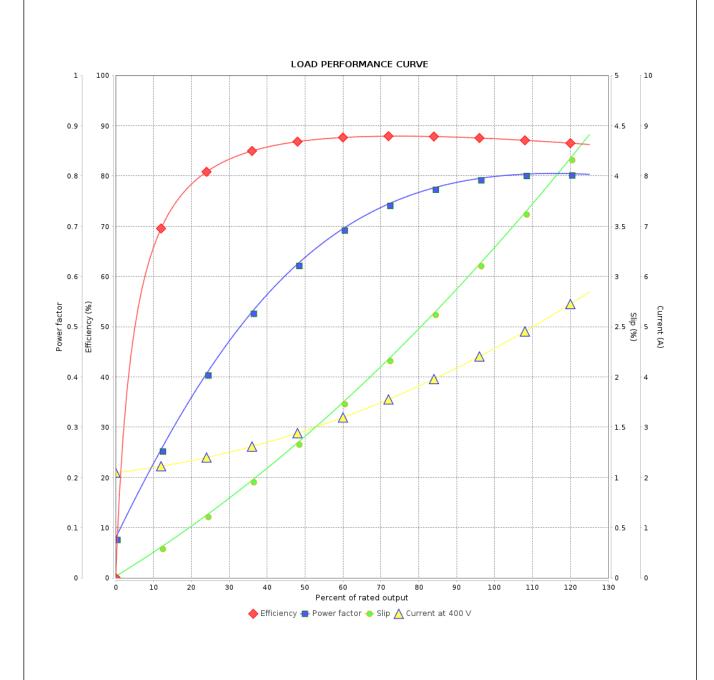


Customer :

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Product line : W22 NEMA Premium Efficiency Product code : 11723870

Three-Phase



				<del></del>	
Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC	: 4.54 A : 7.1	Moment of inertia (J)		: 0.0143 kgm²	
Rated torque	. 7.1 : 1.50 kgfm	Duty cycle Insulation class		: Cont.(S1) : F	
Locked rotor torque		Service factor		: 1.25	
Breakdown torque Rated speed	: 290 % : 1450 rpm	Temperature rise Design		: 80 K : B	
Rev.	Changes Summary	Pe	rformed	Checked	Date
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

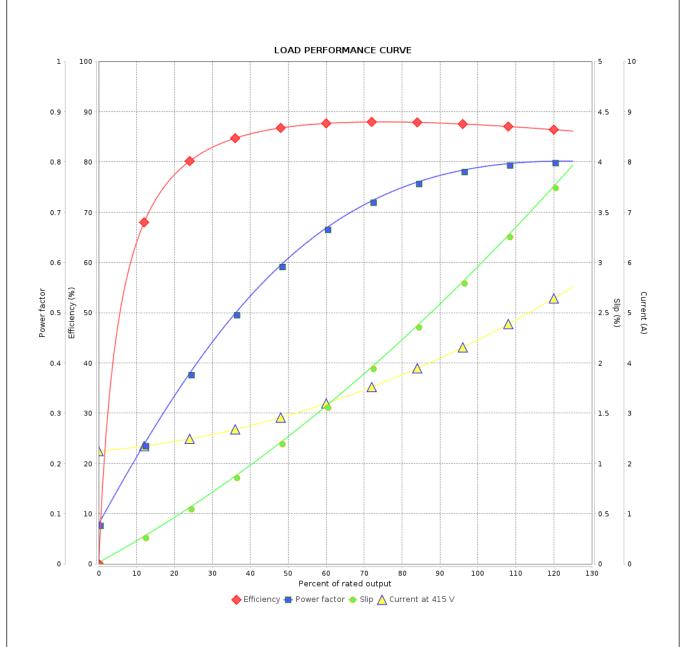
Date

20/10/2024

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11723870



Performance : 415 V 50 Hz 4P IE3 : 4.43 A : 0.0143 kgm<sup>2</sup> Rated current Moment of inertia (J) **LRC** : 7.6 Duty cycle : Cont.(S1) Insulation class Rated torque : 1.50 kgfm : F Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 1455 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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