DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 11456704 Three-Phase : 254/6T Cooling method Frame : IC411 - TEFC Insulation class Mounting : F : F-1 Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line Approx. weight³ Altitude : 1000 m.a.s.l. : 133 kg Protection degree : IP55 Moment of inertia (J) : 0.1867 kgm² Design : B Output [HP] 7.5 7.5 5.5 5.5 5.5 7.5 7.5 Poles 8 8 8 8 8 8 8 50 Frequency [Hz] 60 50 50 50 50 50 Rated voltage [V] 380 400 230/460 380 400 415 415 Rated current [A] 13.1 22.2/11.1 10.4 10.5 10.4 12.5 12.4 L. R. Amperes [A] 118/58.8 56.1 58.7 62.5 56.3 58.7 62.0 LRC [A] 5.3x(Code H)5.4x(Code H) 5.6x(Code J) 6.0x(Code K) 4.3x(Code F) 4.7x(Code F) 5.0x(Code G) No load current [A] 13.0/6.50 7.30 6.40 6.40 6.90 6.90 7.30 Rated speed [RPM] 880 730 730 735 720 725 730 4.00 Slip [%] 2.22 2.67 2.67 2.00 3.33 2.67 Rated torque [kgfm] 6.19 5.45 5.43 5.42 7.56 7.51 7.48 Locked rotor torque [%] 200 210 229 260 150 170 190 Breakdown torque [%] 250 260 290 320 190 210 229 Service factor 1.25 1.00 1.15 1.15 1.00 1.15 1.15 Temperature rise 80 K 80 K 80 K 80 K 105 K 105 K 105 K 45s (cold) Locked rotor time 59s (cold) 45s (cold) 45s (cold) 45s (cold) 45s (cold) 45s (cold) 25s (hot) 33s (hot) 25s (hot) 25s (hot) 25s (hot) 25s (hot) 25s (hot) Noise level² 54.0 dB(A) 51.0 dB(A) 51.0 dB(A) 51.0 dB(A) 51.0 dB(A) 51.0 dB(A) 51.0 dB(A) 25% 50% 85.5 84.1 81.6 81.4 85.5 84.0 84.0 Efficiency (%) 75% 87.5 85.7 84.5 84.5 85.5 85.5 85.5 100% 87.5 85.5 85.5 85.5 84.0 85.5 85.5 25% 50% 0.50 0.47 0.44 0.42 0.57 0.53 0.51 Power Factor 75% 0.63 0.60 0.56 0.54 0.69 0.66 0.64 100% 0.71 0.69 0.65 0.63 0.76 0.74 0.72 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 13.8 13.8 13.8 13.8 13.8 13.8 13.8 P2 (0,5;1,0) 11.7 11.7 11.7 11.7 11.7 11.7 11.7 P3 (0,25;1,0) 11.4 11.4 11.4 11.4 11.4 11.4 11.4 P4 (0,9;0,5) 7.8 7.8 7.8 7.8 7.8 7.8 7.8 Losses (%) P5 (0,5;0,5) 5.7 5.7 5.7 5.7 5.7 5.7 5.7 P6 (0,5;0,25) 4.4 4.4 4.4 4.4 4.4 4.4 4.4 P7 3.4 3.4 3.4 3.4 3.4 3.4 3.4 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6309 C3 6209 C3 : 203 kgf Max. traction Sealing V'Ring V'Ring Max. compression : 336 kgf Lubrication interval 20000 h 20000 h Lubricant amount 13 q 9 g Mobil Polyrex EM Lubricant type This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA must be eliminated. (1) Looking the motor from the shaft end. MG-1. Performed Checked Rev. **Changes Summary** Date Performed by Checked by Page Revision 20/10/2024 1/9 Date

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Three Phase Induction Motor - Squirrel Cage	<u> </u>
Customer :	
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USABLE @208V 24.5A SF 1.15 SFA 28.2A	

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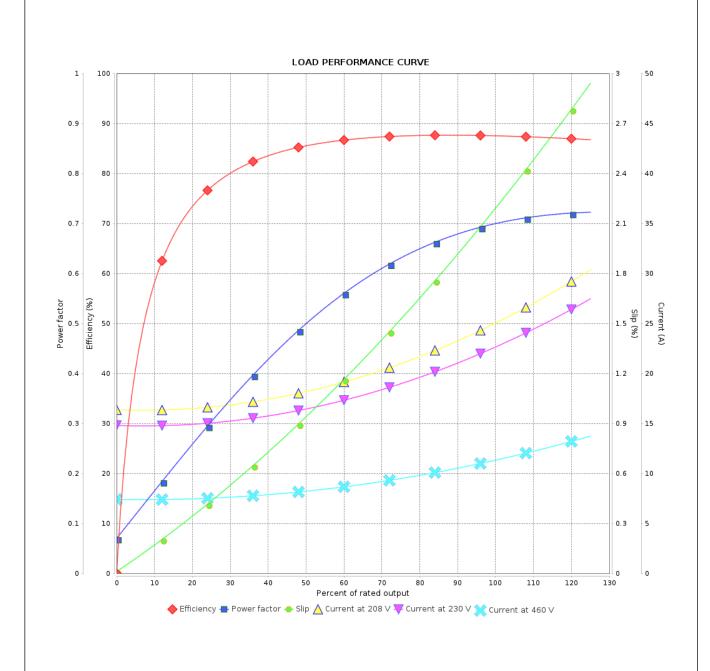
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11456704

Three-Phase



Performance : 230/460 V 60 Hz 8P : 22.2/11.1 A Rated current Moment of inertia (J) : 0.1867 kgm² **LRC** : 5.3 Duty cycle : Cont.(S1) : 6.19 kgfm Insulation class : F Rated torque Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K : 880 rpm Rated speed Design : B

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Three Phase Induction Motor - Squirrel Cage

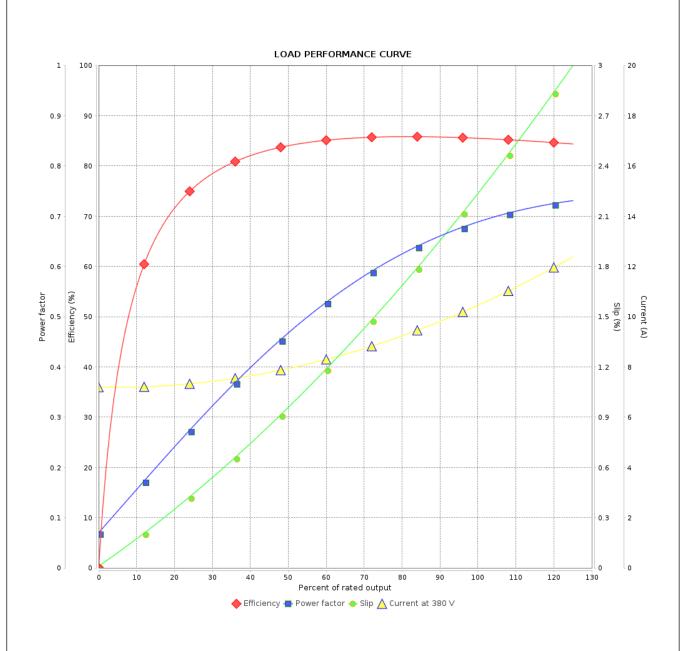


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11456704



Performance	: 3	80 V 50 Hz 8P IE3				
Rated current : 10.4 A		Moment of	Moment of inertia (J)		2	
LRC	: 5	.4	Duty cycl	е	: Cont.(S1)	
Rated torque	: 5	.45 kgfm	Insulation	ı class	: F	
Locked rotor tord	que : 2	10 %	Service fa	actor	: 1.00	
Breakdown torqu	ie : 2	60 %	Temperature rise		: 80 K	
		Design		: B		
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Three Phase Induction Motor - Squirrel Cage



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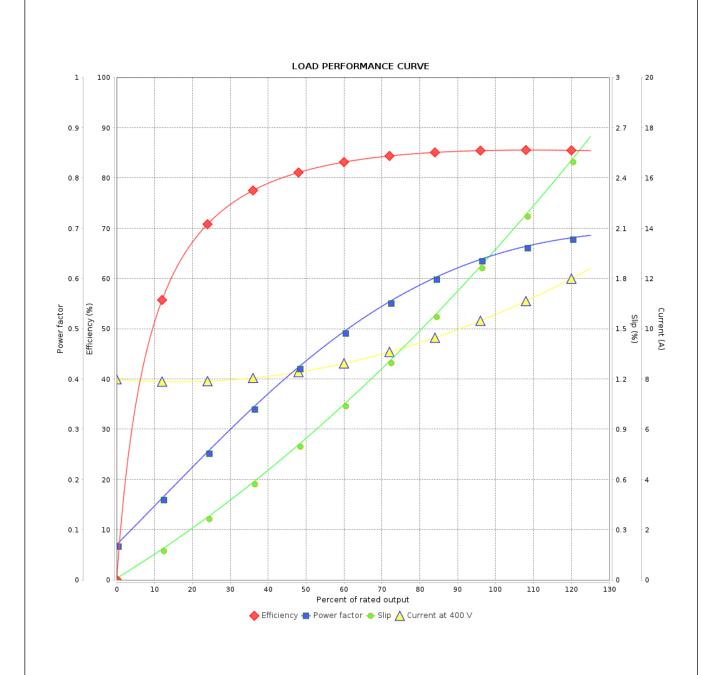
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Product line : W22 NEMA Premium Efficiency Product code : 11456704

Three-Phase



Performance	: 400	V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	que : 229	8 kgfm % %	Moment of Duty cycle Insulation Service fa Temperation Design	class ctor	: 0.1867 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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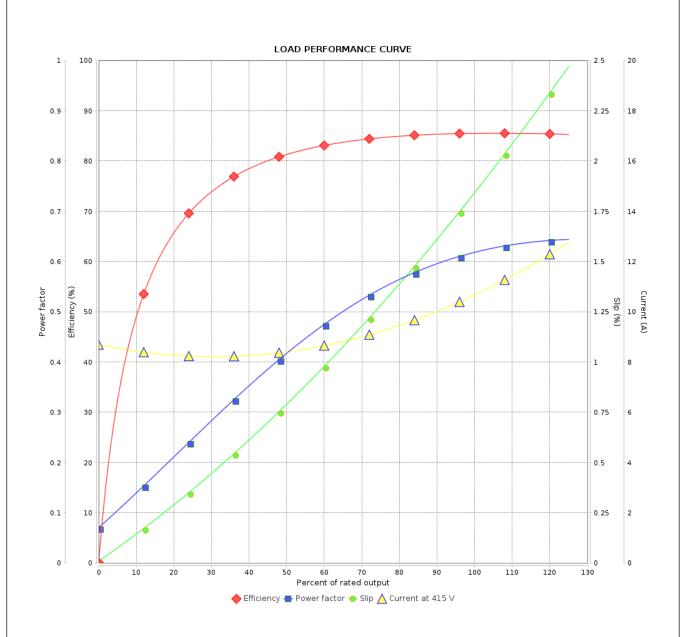


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11456704



Dowformore	. 445 V 50 H= 0D IE3			
Performance	: 415 V 50 Hz 8P IE3			
Rated current	: 10.4 A	Moment of inertia (J)	: 0.1867 kgm	2
LRC	: 6.0	Duty cycle	: Cont.(S1)	
Rated torque	: 5.42 kgfm	Insulation class	: F	
Locked rotor torque : 260 % Service factor		Service factor	: 1.15	
Breakdown torque			: 80 K	
Rated speed	: 735 rpm	Design	: B	
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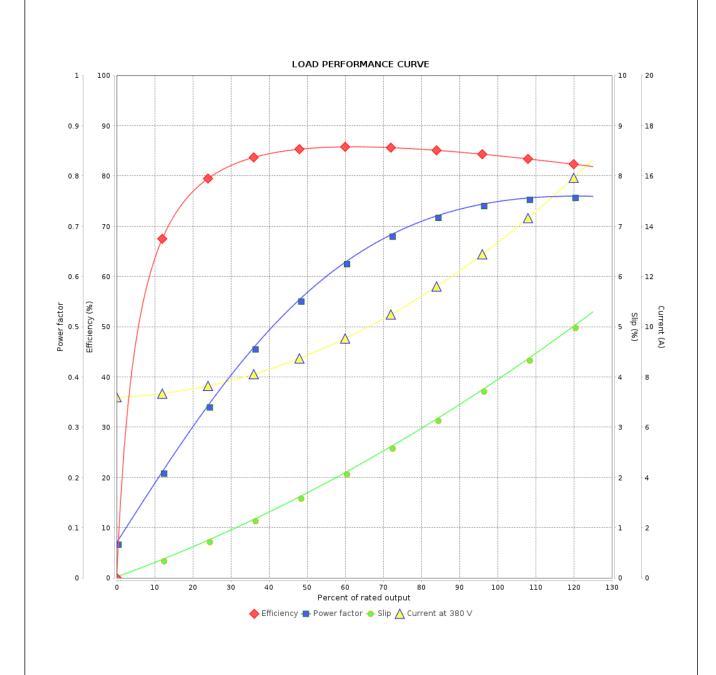
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11456704

Three-Phase



Performance		: 380 V 50 Hz 8P IE2				
Rated current			, ,		2	
Rated torque	LRC : 4.3 Duty cycle Rated torque : 7.56 kgfm Insulation class		Duty cycle : Cont.(S1) Insulation class : F			
Locked rotor tord		: 150 %	Service factor		: 1.00	
Breakdown torqu		: 190 %			: 105 K	
Rated speed : 720 rpm		Design		: B		
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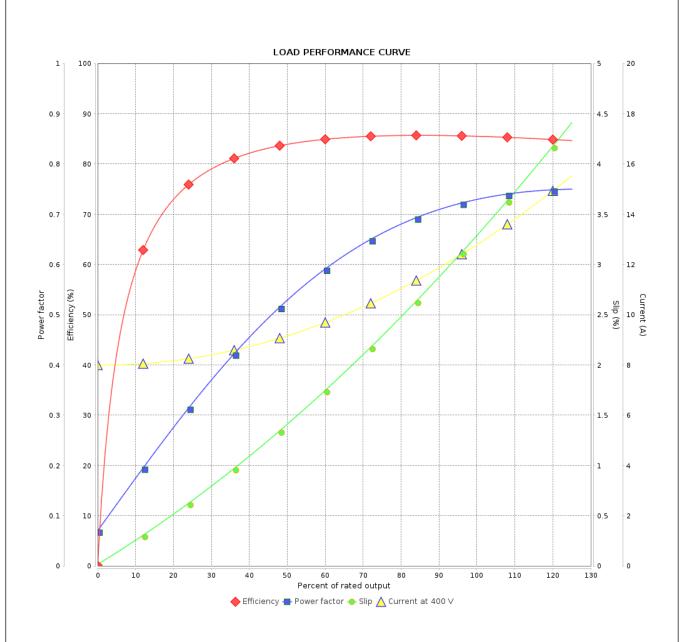
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11456704



Performance : 400 V 50 Hz 8P IE2 : 0.1867 kgm² Rated current : 12.5 A Moment of inertia (J) **LRC** : 4.7 Duty cycle : Cont.(S1) Insulation class Rated torque : 7.51 kgfm : F Locked rotor torque : 170 % Service factor : 1.15 Breakdown torque : 210 % Temperature rise : 105 K Rated speed : 725 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage



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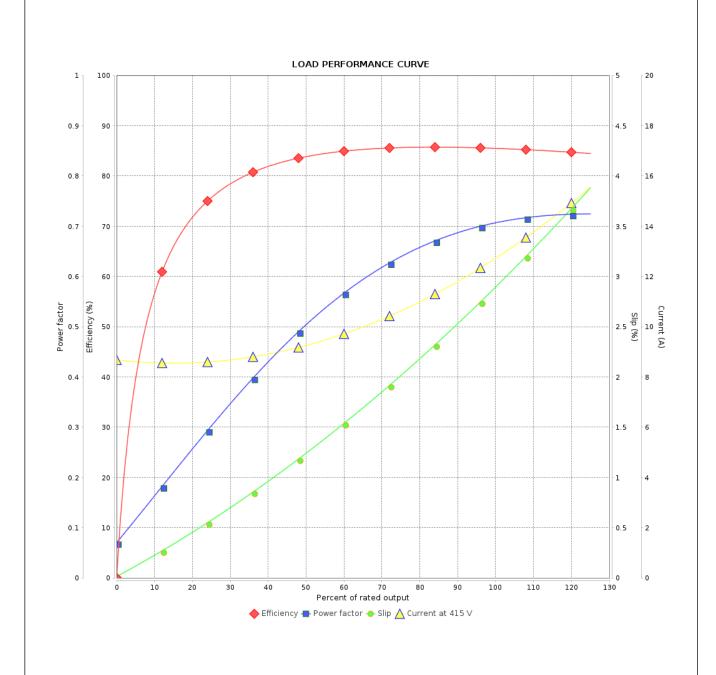
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Product line : W22 NEMA Premium Efficiency Product code : 11456704

Three-Phase



Performance	: 415 V 50 Hz 8P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 5.0 Duty cycle : Cont.(S : 7.48 kgfm Insulation class : F : 190 % Service factor : 1.15 : 229 % Temperature rise : 105 K		: 1.15 : 105 K	
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