DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 12710807 Three-Phase : 143/5TC 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. : 22.0 kg Protection degree : IP55 Moment of inertia (J) : 0.0020 kgm² Design : B Output [HP] 1.5 1 1 1 1.5 1.5 1.5 Poles 2 2 2 2 2 2 2 60 50 50 50 Frequency [Hz] 50 50 50 Rated voltage [V] 380 400 230/460 380 400 415 415 Rated current [A] 4.10/2.05 2.41 1.80 1.80 1.84 2.35 2.32 L. R. Amperes [A] 36.5/18.2 16.6 17.6 19.0 16.4 17.6 18.3 LRC [A] 8.9x(Code L) 9.2x(Code | 9.8x(Code N) | 10.3x(Code | 6.8x(Code J) | 7.5x(Code K) | 7.9x(Code K) M) P) No load current [A] 2.20/1.10 1.10 1.20 1.30 1.10 1.20 1.30 Rated speed [RPM] 3515 2930 2935 2940 2885 2900 2910 Slip [%] 2.36 2.33 2.17 2.00 3.83 3.33 3.00 Rated torque [kgfm] 0.310 0.248 0.247 0.247 0.377 0.375 0.374 Locked rotor torque [%] 270 310 330 360 210 240 250 Breakdown torque [%] 370 390 440 480 260 290 310 1.25 Service factor 1.25 1.25 1.25 1.25 1.25 1.25 Temperature rise 80 K 21s (cold) Locked rotor time 23s (cold) 27s (cold) 25s (cold) 21s (cold) 23s (cold) 21s (cold) 13s (hot) 15s (hot) 14s (hot) 12s (hot) 13s (hot) 12s (hot) 12s (hot) Noise level² 68.0 dB(A) 25% 50% 81.0 78.0 78.0 76.5 81.0 82.0 81.0 Efficiency (%) 75% 84.0 83.2 82.8 82.0 81.5 82.5 82.5 100% 84.0 83.4 83.4 83.4 81.5 82.5 82.5 25% 50% 0.60 0.55 0.50 0.47 0.67 0.62 0.59 Power Factor 75% 0.72 0.68 0.62 0.59 0.78 0.75 0.71 100% 0.80 0.76 0.72 0.68 0.85 0.82 0.80 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 17.3 18.1 18.1 19.3 19.3 18.1 20.6 P2 (0,5;1,0) 13.4 12.9 13.4 13.4 15.3 14.3 14.3 P3 (0,25;1,0) 12.9 13.5 13.5 13.5 15.4 14.4 14.4 P4 (0,9;0,5) 12.3 12.3 11.1 11.6 11.6 11.6 13.2 Losses (%) P5 (0,5;0,5) 6.6 6.9 6.9 6.9 7.9 7.3 7.3 P6 (0,5;0,25) 5.3 5.5 5.5 5.5 6.3 5.9 5.9 P7 3.5 3.7 3.7 3.7 4.2 3.9 3.9 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6205 ZZ 6204 ZZ : 22 kgf Max. traction V'Ring V'Ring Sealing Max. compression : 44 kgf Lubrication interval Lubricant amount 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 13/07/2025 1/9 Date

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Three Phase Induction Motor - Squirrel Cage



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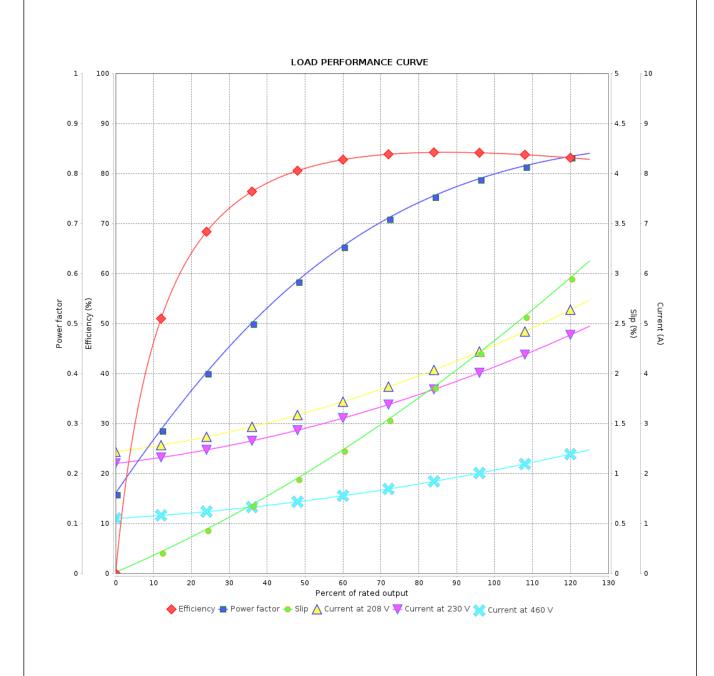
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Date

13/07/2025

Product line : W22 NEMA Premium Efficiency Product code : 12710807

Three-Phase



Performance	: 230/460 V 60 Hz 2P			·	
. 230/400 V 00 HZ 2F					
Rated current	: 4.10/2.05 A	Moment of inertia (J)		: 0.0020 kgm²	
LRC	: 8.9	Duty cycle		: Cont.(S1)	
Rated torque	: 0.310 kgfm	Insulation class		: F ` ´	
Locked rotor torque	: 270 %	Service factor		: 1.25	
Breakdown torque	: 370 %	Temperature rise		: 80 K	
Rated speed	: 3515 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage

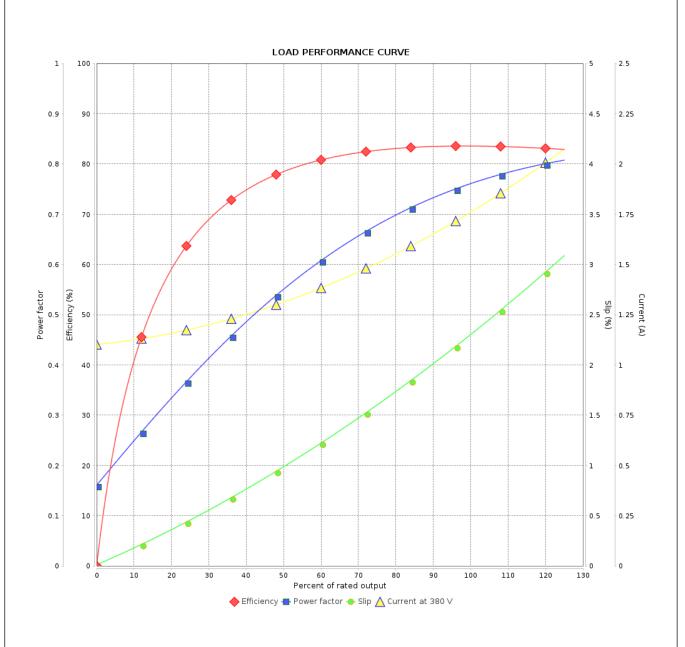


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12710807



Performance	: 380 V 50 Hz 2P IE3						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.80 A : 9.2 : 0.248 kgfm : 310 % : 390 % : 2930 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0020 kgm² : Cont.(S1) : F : 1.25 : 80 K : B			
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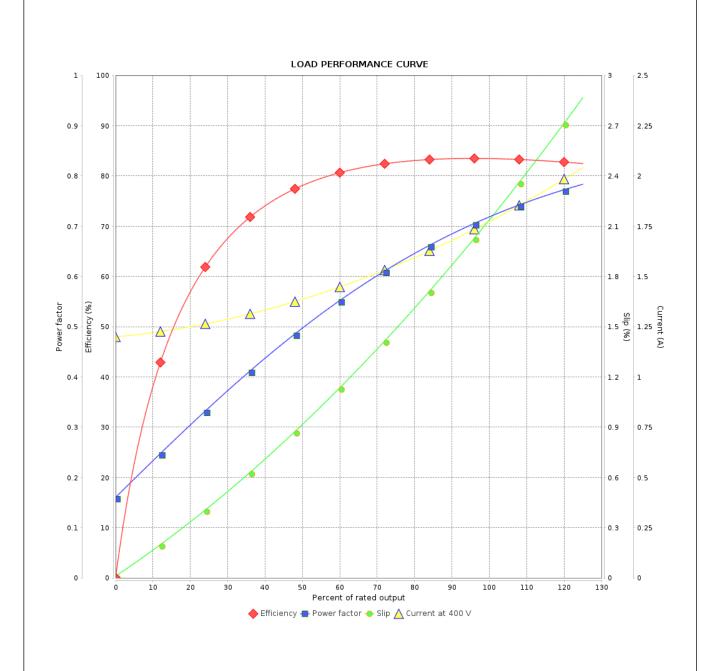


Customer

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Product line : W22 NEMA Premium Efficiency Product code: 12710807

Three-Phase



Performance	: 400 V 50 Hz 2P IE3					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.80 A : 9.8 : 0.247 kgfm : 330 % : 440 % : 2935 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0020 kgm : Cont.(S1) : F : 1.25 : 80 K : B	: F : 1.25 : 80 K	
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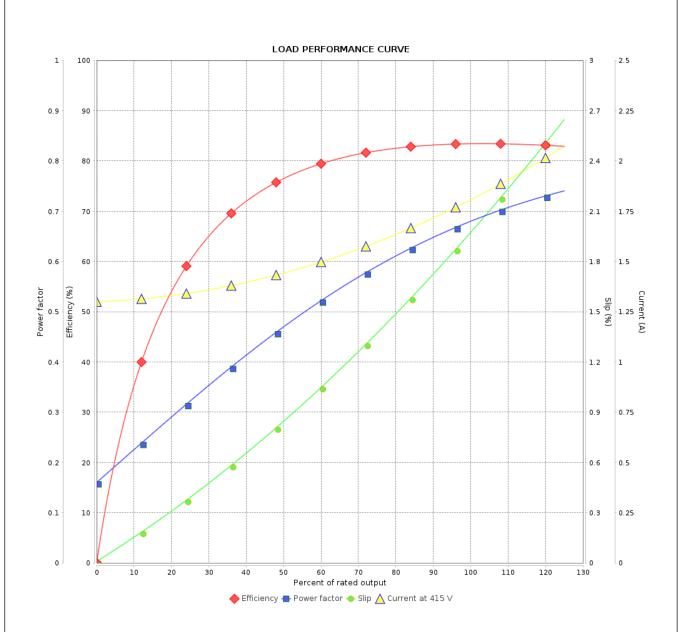


Customer :

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Three-Phase

Product code: 12710807



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Performance	: 415 V 50 Hz 2P IE3						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.84 A : 10.3 : 0.247 kgfm : 360 % : 480 % : 2940 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0020 kgm² : Cont.(S1) : F : 1.25 : 80 K : B			
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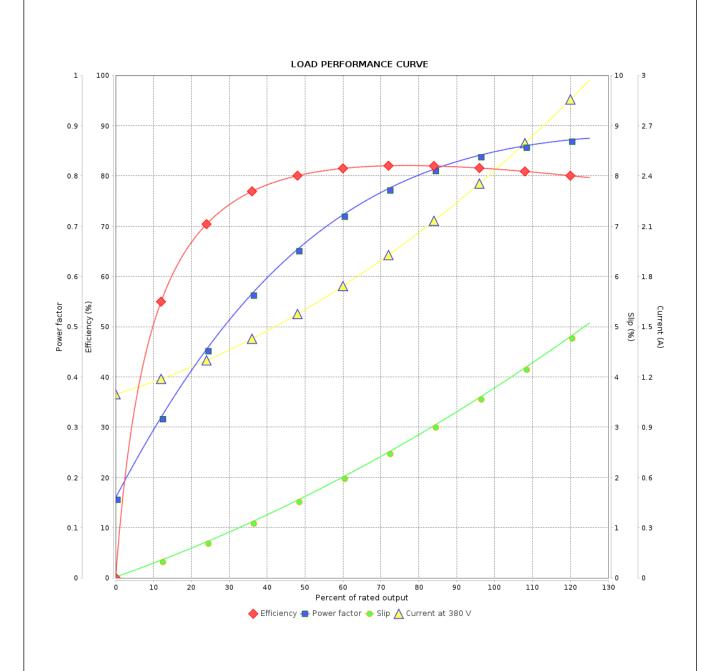
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12710807

Three-Phase



Performance	: 380 V 50 Hz 2P IE2					
Rated current	: 2.41 A	Moment of	of inertia (J)	: 0.0020 kgm²		
LRC	: 6.8	Duty cycle	e	: Cont.(S1)		
Rated torque	: 0.377 kgfm	Insulation class		:F		
Locked rotor torque	: 210 %	Service factor		: 1.25		
Breakdown torque	: 260 %	Temperature rise		: 80 K		
Rated speed	: 2885 rpm	Design		: B		
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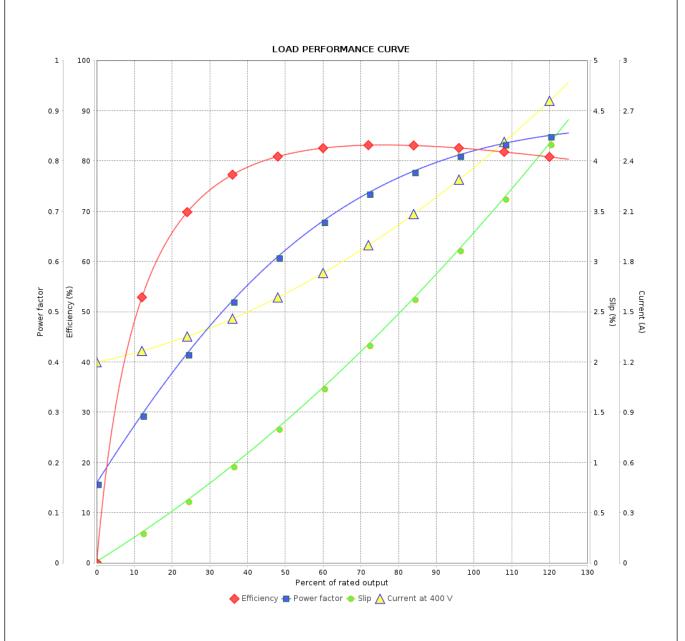


Customer :

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Three-Phase

Product code: 12710807



Performance	: 400 V 50 Hz 2P IE2						
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 2.35 A : 7.5 : 0.375 kgfm : 240 % : 290 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 0.0020 kgm² : Cont.(S1) : F : 1.25 : 80 K			
Rated speed	: 2900 rpm Design						
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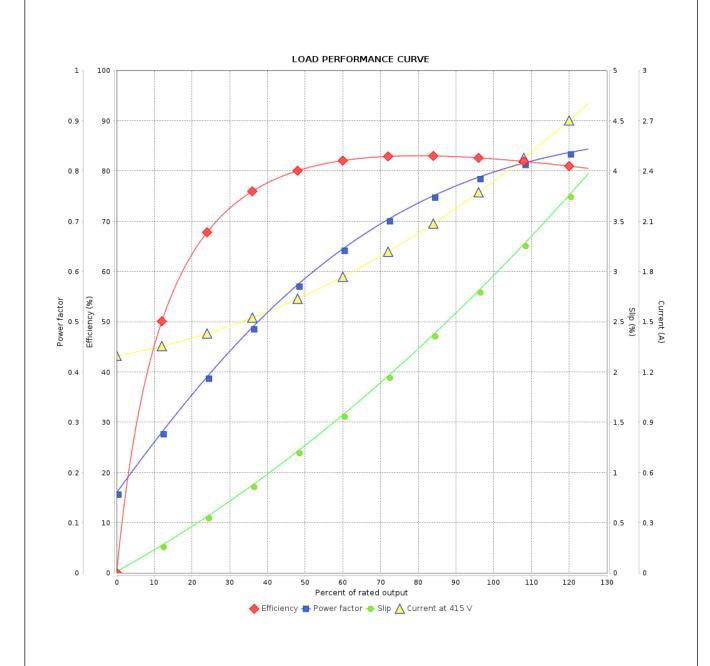


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Product line : W22 NEMA Premium Efficiency Product code : 12710807

Three-Phase



Performance	: 415 V 50 Hz 2P IE2				
Rated current	: 2.32 A	Moment of inertia (J)		: 0.0020 kgm²	
LRC	: 7.9	Duty cycle		: Cont.(S1)	
Rated torque	: 0.374 kgfm	Insulation class		:F	
Locked rotor torque	: 250 %	Service factor		: 1.25	
Breakdown torque	: 310 %	Temperature rise		: 80 K	
Rated speed	: 2910 rpm	Design		: B	
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