DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11432095 Efficiency Three-Phase Cooling method Frame : 254/6T : IC411 - TEFC Insulation class Mounting : F-1 : F 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. : 141 kg Protection degree : IP56 Moment of inertia (J) : 0.0647 kgm² Design : B Output [HP] 20 15 20 15 15 20 20 Poles 2 2 2 2 2 2 2 50 50 50 50 Frequency [Hz] 60 50 50 Rated voltage [V] 380 400 460 380 400 415 415 Rated current [A] 20.0 28.6 23.3 20.8 19.5 27.2 26.0 L. R. Amperes [A] 142 146 154 158 146 155 159 LRC [A] 6.1x(Code | 7.0x(Code H) | 7.7x(Code J) | 8.1x(Code J) | 5.1x(Code E) | 5.7x(Code F) | 6.1x(Code G) G) No load current [A] 6.20 6.50 6.60 6.90 6.20 6.60 6.90 Rated speed [RPM] 3520 2925 2935 2940 2870 2905 2915 Slip [%] 2.22 2.50 2.17 2.00 4.33 3.17 2.83 Rated torque [kgfm] 4.12 3.72 3.71 3.70 5.06 5.00 4.98 Locked rotor torque [%] 220 220 240 270 160 180 200 Breakdown torque [%] 250 260 280 310 200 210 229 Service factor 1.25 1.15 1.15 1.15 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K 105 K 105 K 105 K 21s (cold) Locked rotor time 34s (cold) 28s (cold) 28s (cold) 28s (cold) 14s (cold) 18s (cold) 19s (hot) 16s (hot) 16s (hot) 16s (hot) 8s (hot) 10s (hot) 12s (hot) Noise level² 72.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 25% 50% 91.0 90.6 90.4 89.8 91.0 91.0 91.0 Efficiency (%) 75% 91.7 90.9 91.2 91.1 90.2 91.0 91.0 100% 91.0 91.2 91.2 91.2 88.5 89.5 90.2 25% 50% 0.80 0.78 0.75 0.73 0.85 0.83 0.82 Power Factor 75% 0.87 0.86 0.85 0.83 0.89 0.88 0.87 100% 0.89 0.88 0.87 0.86 0.90 0.89 0.89 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 9.0 8.8 8.8 8.8 10.7 9.9 11.9 P2 (0,5;1,0) 7.0 6.8 6.8 6.8 9.2 8.3 7.7 P3 (0,25;1,0) 6.8 6.6 6.6 6.6 8.9 8.1 7.5 P4 (0,9;0,5) 4.6 4.5 4.5 4.5 6.0 5.4 5.0 Losses (%) P5 (0,5;0,5) 2.5 2.6 2.5 2.5 3.4 3.1 2.8 P6 (0,5;0,25) 1.6 1.5 1.5 2.1 1.9 1.7 1.5 P7 1.0 0.9 0.9 0.9 0.9 1.2 1.1 (0,25;0,25)Drive end Non drive end Foundation loads Bearing type 6309 C3 6209 C3 : 109 kgf Max. traction Sealing Inpro/Seal Inpro/Seal Max. compression : 250 kgf Lubrication interval 19000 h 20000 h 9 g Lubricant amount 13 q 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 22/10/2024 1/9 Date

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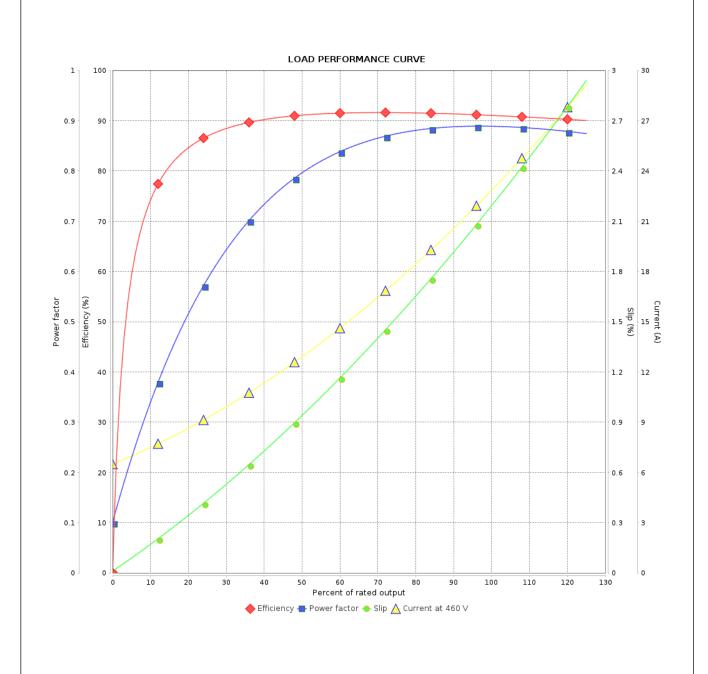


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Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance	: 46	0 V 60 Hz 2P				
Rated current	: 23	.3 A	Moment of inertia (J)		: 0.0647 kgm²	
LRC	: 6.1	1	Duty cycle	Duty cycle		
Rated torque	: 4.1	12 kgfm	Insulation	Insulation class		
Locked rotor tord	que : 22	0 %	Service fa	Service factor		
Breakdown torqu	ie : 25	0 %	Temperatu	Temperature rise		
Rated speed	: 35	20 rpm	Design	Design		
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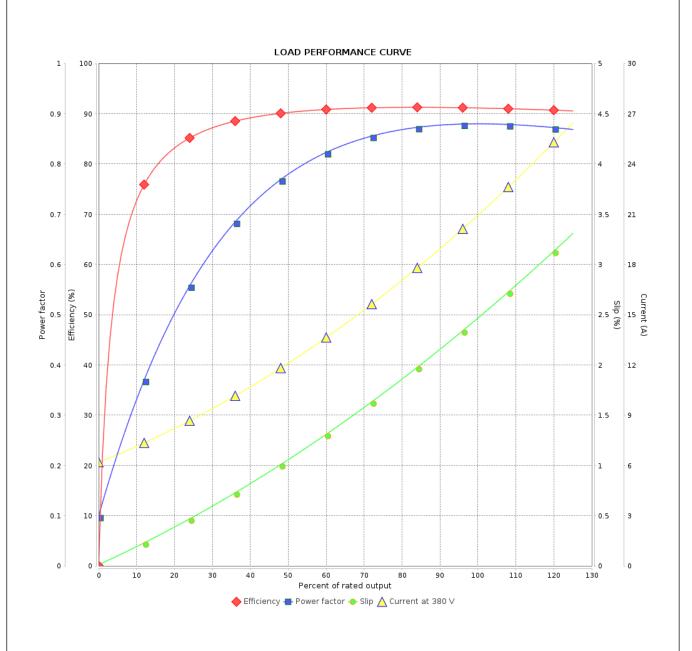
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22/10/2024

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11432095



Performance : 380 V 50 Hz 2P IE3 : 0.0647 kgm² Rated current : 20.8 A Moment of inertia (J) **LRC** : 7.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 3.72 kgfm : F Locked rotor torque : 220 % Service factor : 1.15 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 2925 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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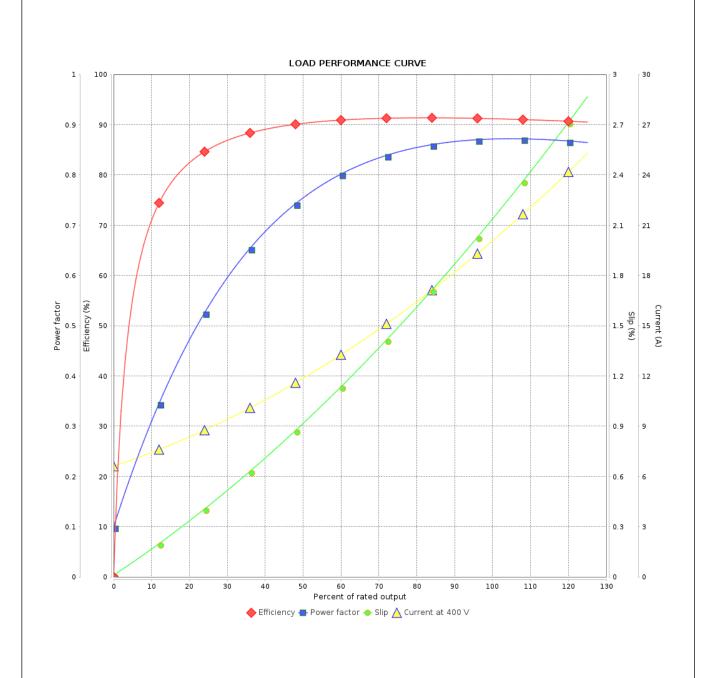
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Customer

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Product line : W22 IEEE 841 NEMA Premium Product code:

Efficiency Three-Phase



Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 20.0 A : 7.7 : 3.71 kgfm : 240 % : 280 % : 2935 rpm	` ,		: 1.15 : 80 K	2
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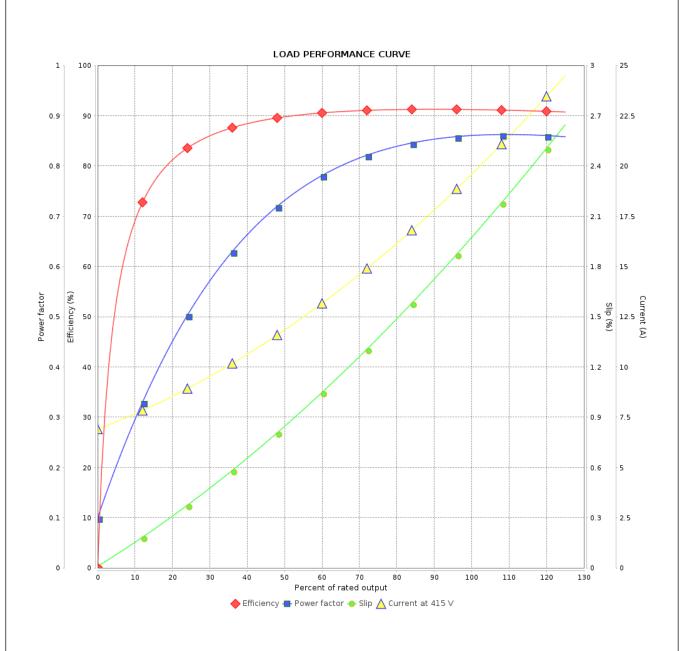
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Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11432095



Performance : 415 V 50 Hz 2P IE3 : 19.5 A : 0.0647 kgm² Rated current Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 8.1 Insulation class Rated torque : 3.70 kgfm : F Locked rotor torque : 270 % Service factor : 1.15 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 2940 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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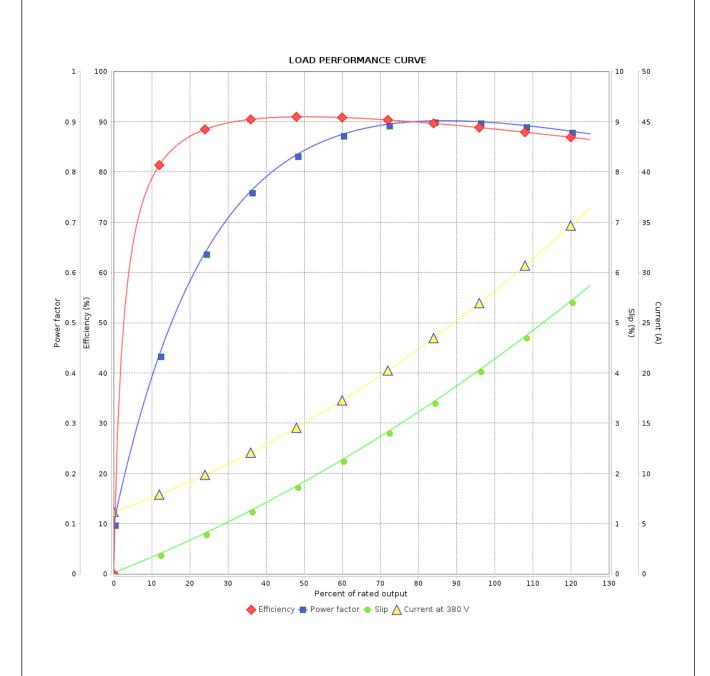


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Product code: 11432095



Performance	: 380 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 28.6 A : 5.1 : 5.06 kgfm : 160 % : 200 % : 2870 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0647 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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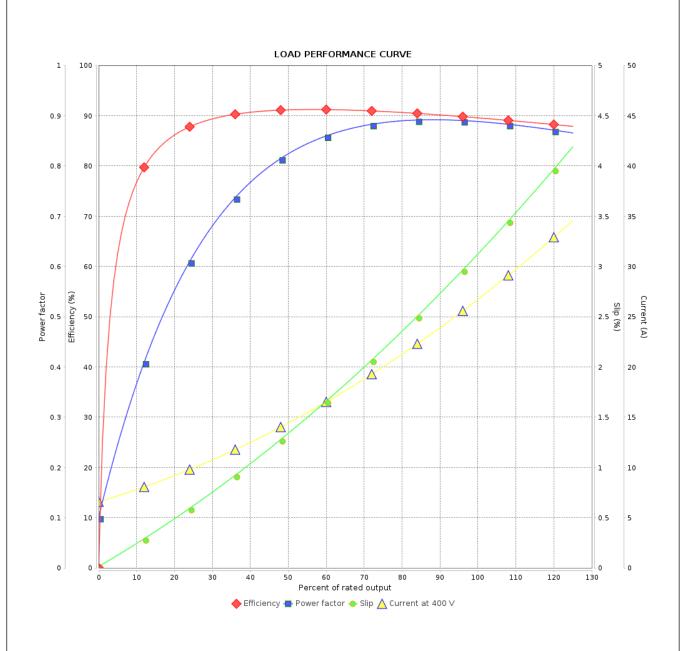


Customer :

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Efficiency Three-Phase

Product code: 11432095



Performance	: 400 V 50 Hz 2P IE1				
Rated current LRC Rated torque	: 27.2 A : 5.7 : 5.00 kgfm	Moment of inertia (J) Duty cycle Insulation class		: 0.0647 kgm² : Cont.(S1) : F	
Locked rotor torque Breakdown torque Rated speed	: 180 % : 210 % : 2905 rpm	Service factor Temperature rise Design		: 1.00 : 105 K : B	
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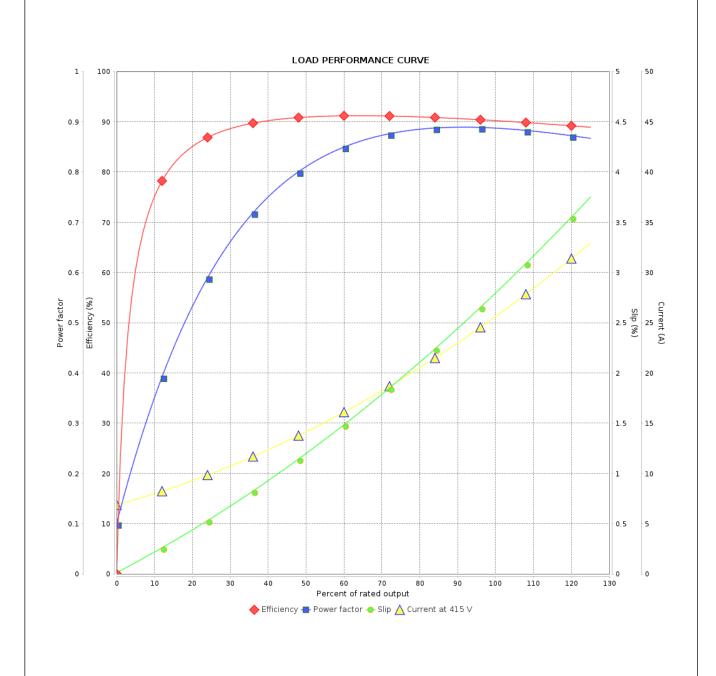


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Efficiency Three-Phase

Product code: 11432095



Performance	: 415 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 26.0 A : 6.1 : 4.98 kgfm : 200 % : 229 % : 2915 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0647 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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