DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 Tru-Metric IE3 Three-Phase Product code: 12700601 Frame : 280S/M Cooling method : IC411 - TEFC Insulation class Mounting : B3L(E) : F Duty cycle : S1 Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line Altitude : 1000 m.a.s.l. Approx. weight³ : 724 kg Protection degree : IP55 Moment of inertia (J) : 2.25 kgm² Design : N 100 100 Output [HP] 100 Poles 4 4 4 60 Frequency [Hz] 50 50 Rated voltage [V] 380 415 230/460 Rated current [A] 139 128 232/116 L. R. Amperes [A] 973 1075 2042/1021 LRC [A] 7.0 8.4 8.8 No load current [A] 39.0 44.5 78.0/39.0 Rated speed [RPM] 1486 1488 1789 Slip [%] 0.93 0.80 0.61 Rated torque [kgfm] 40.6 48.8 48.8 Locked rotor torque [%] 190 240 250 Breakdown torque [%] 229 280 290 Service factor 1.25 1.25 1.25 Temperature rise 80 K 80 K 80 K 66s (cold) 37s (hot) Locked rotor time 63s (cold) 35s (hot) 55s (cold) 31s (hot) Noise level² 69.0 dB(A) 69.0 dB(A) 73.0 dB(A) 25% 50% 94.8 94.6 93.0 Efficiency (%) 75% 95.2 95.2 94.5 95.4 95.7 100% 95.4 25% 0.78 0.73 0.72 50% Power Factor 75% 0.84 0.82 0.81 100% 0.86 0.85 0.85 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 4.4 4.4 2.9 2.7 2.9 P2 (0,5;1,0) 2.3 2.2 2.3 P3 (0,25;1,0) Losses (%) P4 (0,9;0,5) 2.7 2.5 2.7 P5 (0,5;0,5) 1.4 1.3 1.4 P6 (0,5;0,25) 1.0 1.0 1.0 P7 (0,25;0,25) 0.6 0.5 0.6 Drive end Non drive end Foundation loads NU-316 C3 Bearing type 6316 C3 Max. traction : 667 kgf Sealing WSeal WSeal : 1391 kgf Max. compression 10000 h Lubrication interval 7000 h Lubricant amount 34 g 34 g 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. (4) At 100% of full load. Rev. **Changes Summary** Performed Checked Date

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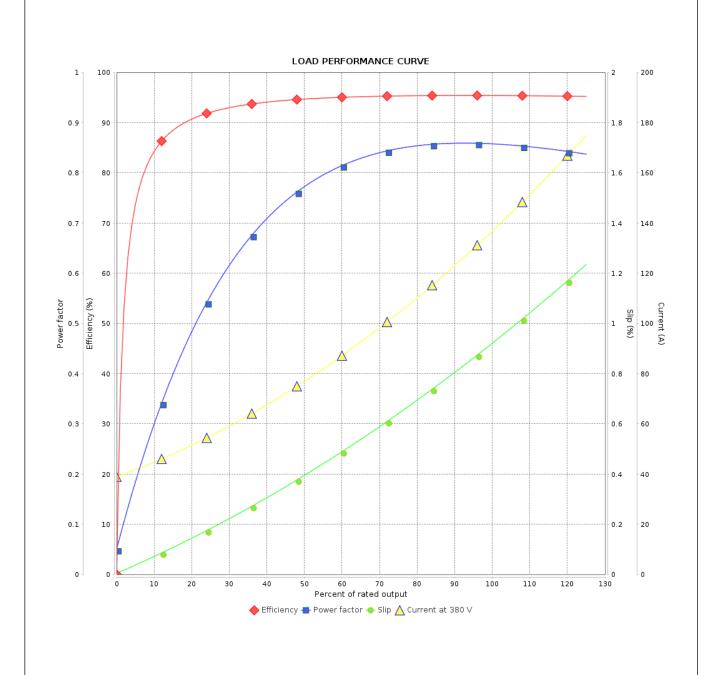
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12700601



Performance	: 380 V 50 Hz 4P		
Rated current	: 139 A	Moment of inertia (J)	: 2.25 kgm²
LRC	: 7.0	Duty cycle	: S1
Rated torque	: 48.8 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.25
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 1486 rpm	Design	: N

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Three Phase Induction Motor - Squirrel Cage



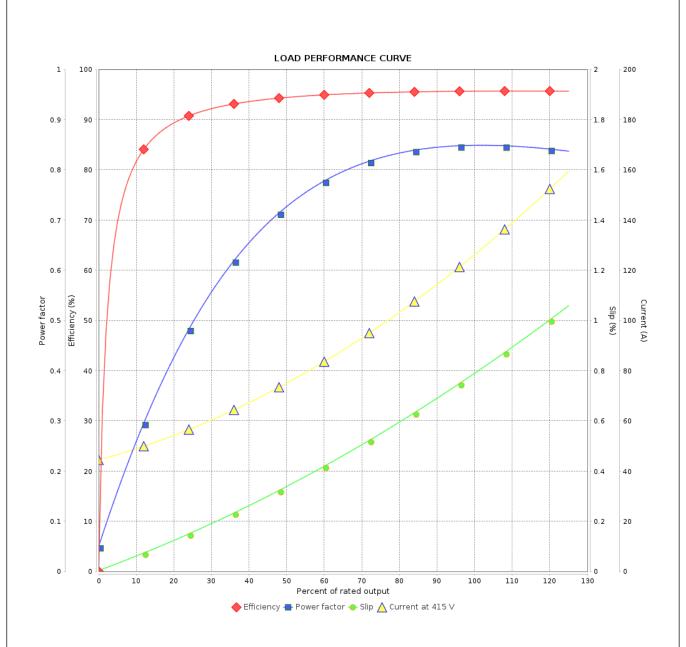
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14/01/2024

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12700601



Performance	: 4	415 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 8 : 2 ue : 2 le : 2	128 A 3.4 48.8 kgfm 240 % 280 % 1488 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 2.25 kgm² : S1 : F : 1.25 : 80 K : N	
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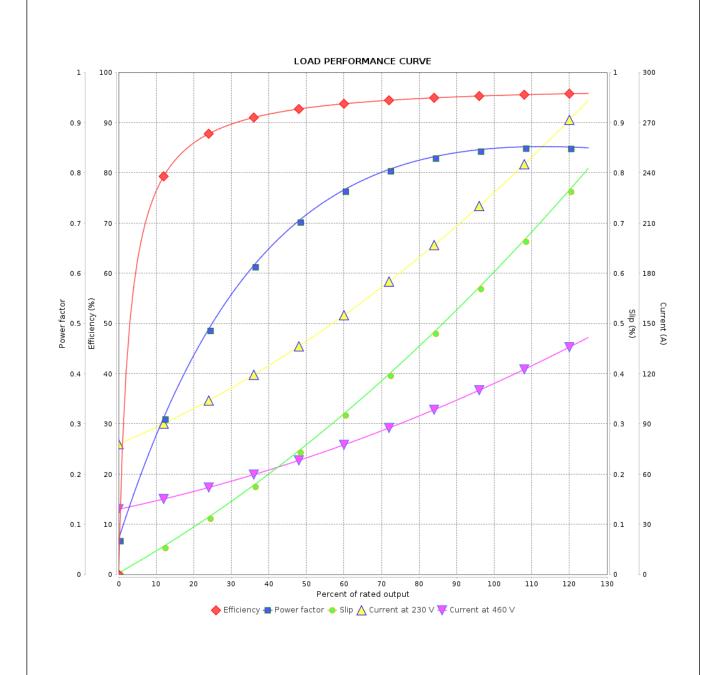
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12700601



Performance	: 2	230/460 V 60 Hz 4P	1			
Rated current		32/116 A Moment of inertia (J)		: 2.25 kgm²		
LRC : 8.		3.8	Duty cycle	Duty cycle		
Rated torque : 4		10.6 kgfm	Insulation	Insulation class		
•		250 %	Service fa	Service factor		
Breakdown torque		290 %	Temperati	Temperature rise		
Rated speed	: 1	1789 rpm Design			: N	
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