DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 Tru-Metric IE3 Three-Phase Product code: 13246835 Frame : 200L 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 : 261 kg Protection degree : IP55 Moment of inertia (J) : 0.3468 kgm² Design : N 40 Output [HP] 40 40 Poles 4 4 4 Frequency [Hz] 50 50 60 Rated voltage [V] 380 415 230/460 Rated current [A] 58.0 55.7 98.8/49.4 L. R. Amperes [A] 423 457 909/454 LRC [A] 7.3 8.2 9.2 No load current [A] 24.5 27.0 51.0/25.5 Rated speed [RPM] 1480 1485 1785 Slip [%] 1.33 1.00 0.83 Rated torque [kgfm] 19.6 19.5 16.3 Locked rotor torque [%] 250 340 310 Breakdown torque [%] 280 310 350 Service factor 1.25 1.00 1.00 Temperature rise 80 K 80 K 80 K Locked rotor time 19s (cold) 11s (hot) 16s (cold) 9s (hot) 23s (cold) 13s (hot) Noise level² 63.0 dB(A) 63.0 dB(A) 66.0 dB(A) 25% 50% 93.4 92.8 92.6 Efficiency (%) 75% 93.7 93.3 93.7 94.1 100% 93.6 93.6 25% 0.69 0.60 0.63 50% Power Factor 75% 0.79 0.72 0.75 100% 0.84 0.80 0.81 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 6.0 P2 (0,5;1,0) 5.1 5.1 4.7 P3 (0,25;1,0) 4.7 4.7 4.3 Losses (%) P4 (0,9;0,5) 3.9 3.9 3.5 P5 (0,5;0,5) 2.5 2.5 2.3 P6 (0,5;0,25) 1.9 1.9 1.8 P7 (0,25;0,25) 1.3 1.3 1.2 Drive end Non drive end Foundation loads Bearing type 6312 C3 6212 C3 Max. traction : 585 kgf Sealing V'Rina V'Rina : 846 kaf Max. compression Lubrication interval 20000 h 20000 h Lubricant amount 13 g Mobil Polyrex EM Lubricant type 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. Performed Checked Rev. **Changes Summary** Date Performed by Checked by Page Revision 25/10/2024 1/5 Date

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Customer : Notes	
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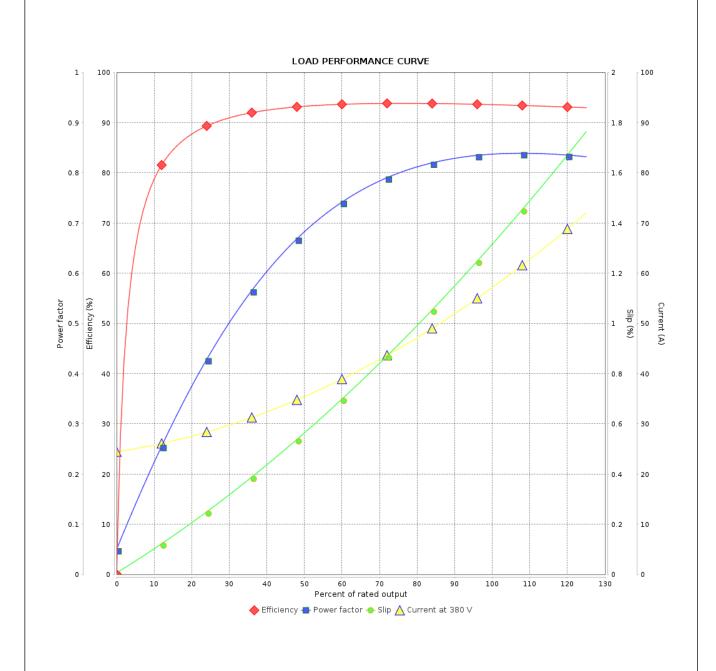
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 13246835



Performance		: 380 V 50 Hz 4P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque		: 58.0 A : 7.3 : 19.6 kgfm : 250 % : 280 %	Duty Insu Serv Tem	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 0.3468 kgm² : S1 : F : 1.00 : 80 K		
Rated speed		: 1480 rpm	Desi	gn		: N		
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Three Phase Induction Motor - Squirrel Cage



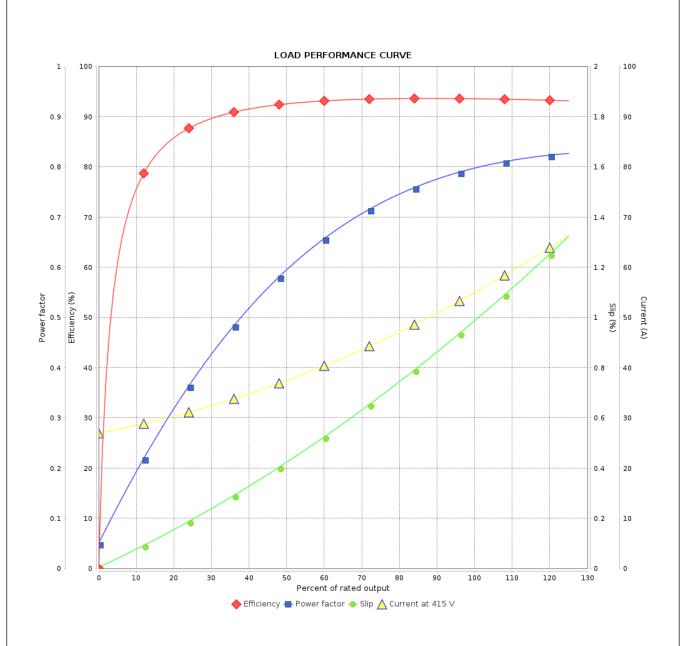
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Date

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Product line : W22 Tru-Metric IE3 Three-Phase Product code : 13246835



Performance	: 4	415 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 8 : 1 ue	55.7 A 8.2 19.5 kgfm 310 % 310 % 1485 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 0.3468 kgm² : S1 : F : 1.00 : 80 K : N	
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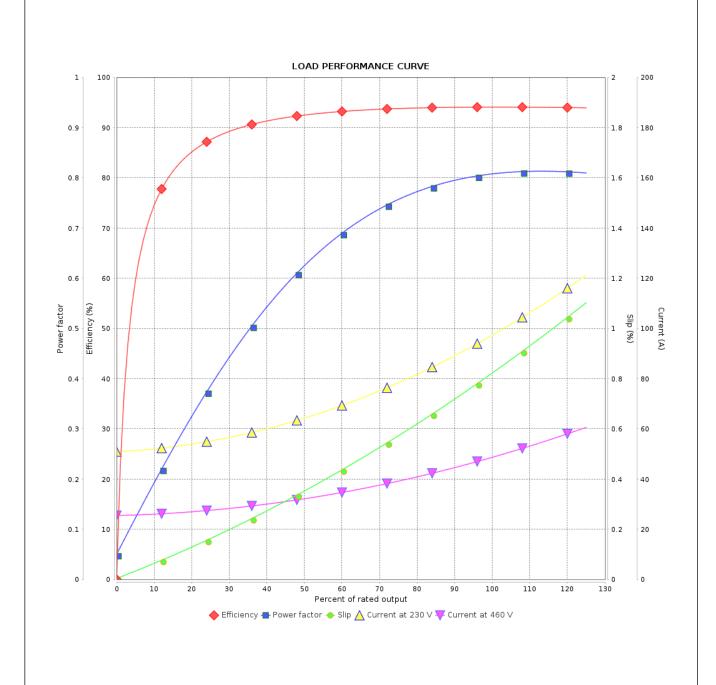
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 13246835



Performance	: 230/460 V 60 Hz 4P				
Rated current	: 98.8/49.4 A	Moment of inertia (J)		: 0.3468 kgm²	
LRC	: 9.2	Duty cycle		: S1	
Rated torque	: 16.3 kgfm	Insulation class		: F	
Locked rotor torque	: 340 %	Service factor		: 1.25	
Breakdown torque	: 350 %	Temperature rise		: 80 K	
Rated speed	: 1785 rpm	Design		: N	
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