DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 Tru-Metric IE3 Three-Phase Product code: 12830434 : 225S/M Frame 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 : 403 kg Protection degree : IP55 Moment of inertia (J) : 0.8822 kgm² Design : N 50 Output [HP] 50 50 Poles 4 4 4 60 Frequency [Hz] 50 50 Rated voltage [V] 380 415 230/460 Rated current [A] 69.6 65.1 117/58.5 L. R. Amperes [A] 543 573 1135/567 LRC [A] 7.8 8.8 9.7 No load current [A] 25.2 28.5 52.0/26.0 Rated speed [RPM] 1480 1485 1785 Slip [%] 1.33 1.00 0.83 Rated torque [kgfm] 24.5 20.3 24.4 Locked rotor torque [%] 300 240 310 Breakdown torque [%] 270 330 360 Service factor 1.25 1.25 1.25 80 K Temperature rise 80 K 80 K Locked rotor time 16s (cold) 9s (hot) 16s (cold) 9s (hot) 19s (cold) 11s (hot) Noise level² 63.0 dB(A) 63.0 dB(A) 67.0 dB(A) 25% 50% 93.7 93.5 93.0 Efficiency (%) 75% 93.9 94.1 94.1 94.5 100% 93.9 94.1 25% 0.74 0.69 0.68 50% Power Factor 75% 0.83 0.79 0.79 100% 0.86 0.84 0.84 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 5.7 5.5 P2 (0,5;1,0) 4.1 3.8 4.0 3.4 P3 (0,25;1,0) 3.5 3.3 Losses (%) P4 (0,9;0,5) 3.4 3.2 3.3 P5 (0,5;0,5) 2.0 1.9 1.9 P6 (0,5;0,25) 1.5 1.4 1.4 P7 (0,25;0,25) 0.9 8.0 0.9 Drive end Non drive end Foundation loads 6314 C3 Bearing type 6314 C3 Max. traction : 620 kgf Sealing WSeal WSeal : 1023 kgf Max. compression Lubrication interval 12000 h 12000 h Lubricant amount 27 g 27 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. Performed Checked Rev. **Changes Summary** Date Performed by

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Three Phase Induction Motor - Squirrel Cage



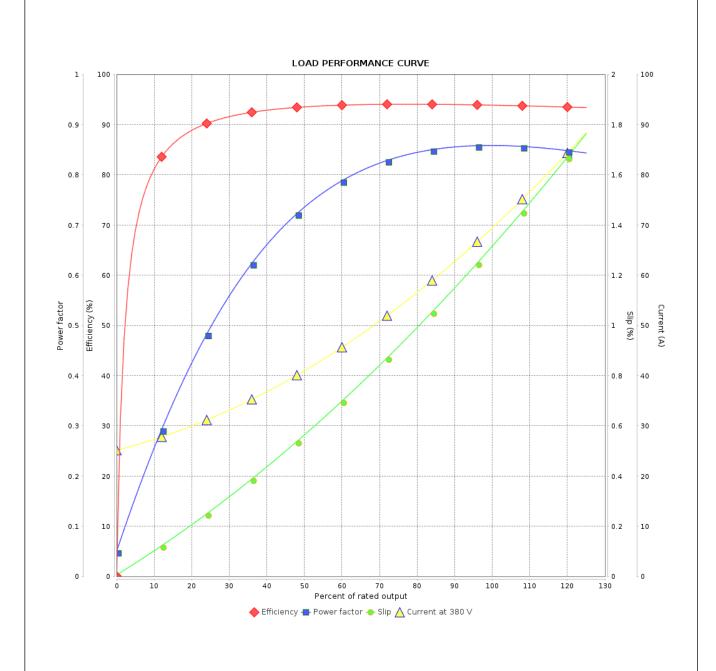
Customer :

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Date

14/01/2024

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12830434



Performance		: 380 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 69.6 A : 7.8 : 24.5 kgfm : 240 % : 270 % : 1480 rpm	Duty cyc Insulatio Service	n class	: 0.8822 kgm² : S1 : F : 1.25 : 80 K : N	
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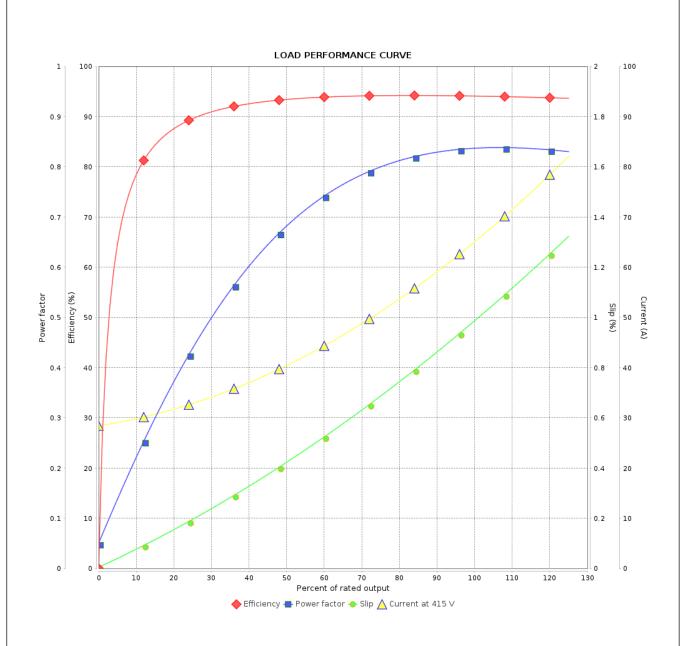
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Three Phase Induction Motor - Squirrel Cage



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Customer	

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12830434



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Performance	:	415 V 50 Hz 4P					
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: :ue :e :	65.1 A 8.8 24.4 kgfm 300 % 330 % 1485 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.8822 kgm² : S1 : F : 1.25 : 80 K : N	
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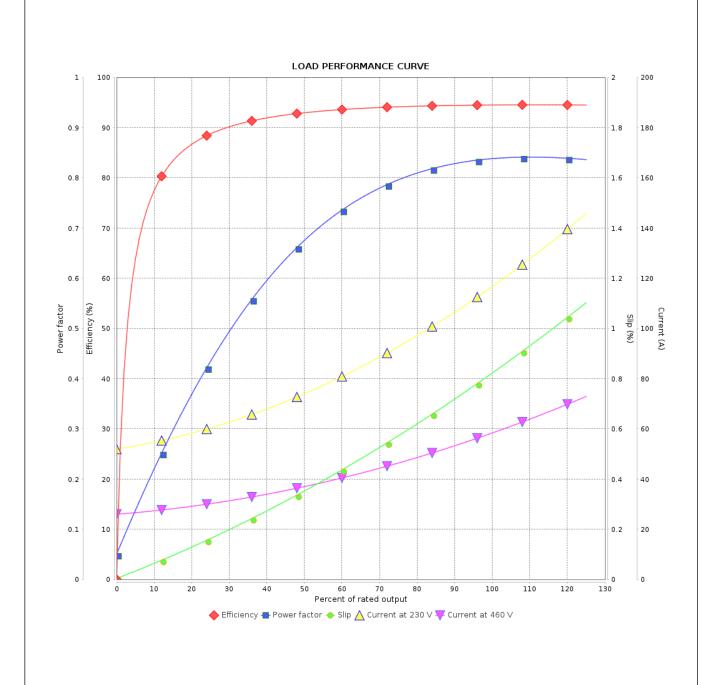
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12830434



Performance	: 2	30/460 V 60 Hz 4P				
LRC : 9			Moment of inertia (J) Duty cycle		: 0.8822 kgm² : S1	
Locked rotor torque		0.3 kgfm 10 % 60 %	Insulation class Service factor Temperature rise		: F : 1.25 : 80 K	
Rated speed		785 rpm	Design	· '		
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