DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 Tru-Metric IE3 Three-Phase Product code: 13422162 Frame : 71 Cooling method : IC411 - TEFC Insulation class Mounting : F : B3L(E) 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 : 10.7 kg Protection degree Moment of inertia (J) : 0.0004 kgm² : IP55 Design : N 0.5 Output [HP] 0.5 0.5 Poles 2 2 2 50 60 Frequency [Hz] 50 Rated voltage [V] 380 415 230/460 Rated current [A] 0.876 0.840 1.54/0.772 L. R. Amperes [A] 5.08 5.21 11.6/5.79 LRC [A] 5.8 6.2 7.5 0.860/0.430 No load current [A] 0.420 0.470 Rated speed [RPM] 2810 3455 2850 Slip [%] 4.03 6.33 5.00 Rated torque [kgfm] 0.129 0.127 0.105 Locked rotor torque [%] 200 240 280 Breakdown torque [%] 220 280 310 Service factor 1.25 1.25 1.25 Temperature rise 80 K 80 K 80 K Locked rotor time 21s (cold) 12s (hot) 21s (cold) 12s (hot) 21s (cold) 12s (hot) Noise level² 56.0 dB(A) 56.0 dB(A) 60.0 dB(A) 25% 50% 73.6 72.4 70.0 Efficiency (%) 75% 73.8 73.8 73.4 100% 73.8 73.8 73.4 25% 0.69 0.63 0.63 50% Power Factor 75% 0.80 0.75 0.74 100% 0.87 0.83 0.82 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 32.2 32.2 32.9 23.9 P2 (0,5;1,0) 23.9 24.4 23.9 23.9 P3 (0,25;1,0) 24.4 22.1 Losses (%) P4 (0,9;0,5) 22.1 22.6 P5 (0,5;0,5) 13.0 13.0 13.2 11.1 P6 (0,5;0,25) 10.9 10.9 P7 (0,25;0,25) 7.3 7.1 Drive end Non drive end Foundation loads Bearing type 6202 ZZ 6202 ZZ Max. traction : 6 kgf V'Ring Sealing V'Rina : 16 kaf Max. compression 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 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

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DATA SHEET

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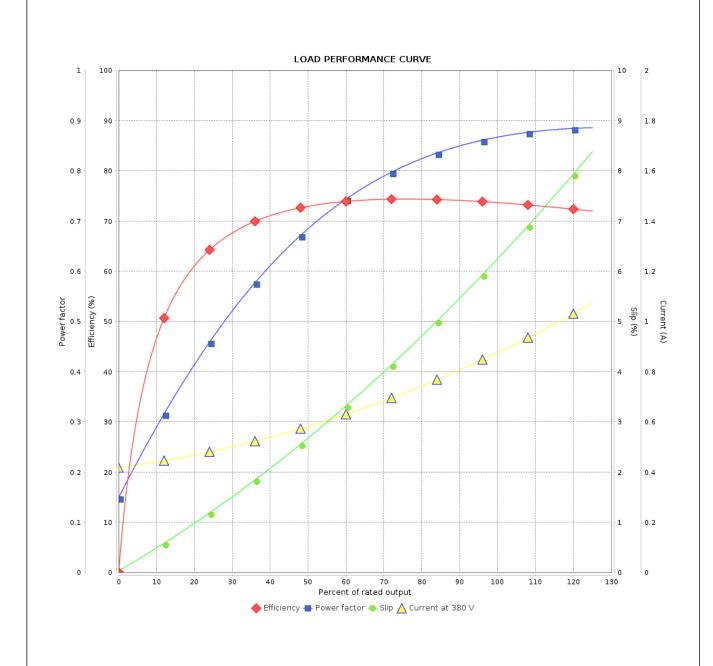
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 13422162



Performance	: 38	80 V 50 Hz 2P					
LRC : 5		.876 A .8 .129 kgfm	Duty cycle	Moment of inertia (J) Duty cycle Insulation class		: 0.0004 kgm² : S1 : F	
Locked rotor torque Breakdown torque Rated speed		00 % 20 % 810 rpm		Service factor Temperature rise		: 1.25 : 80 K : N	
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Three Phase Induction Motor - Squirrel Cage



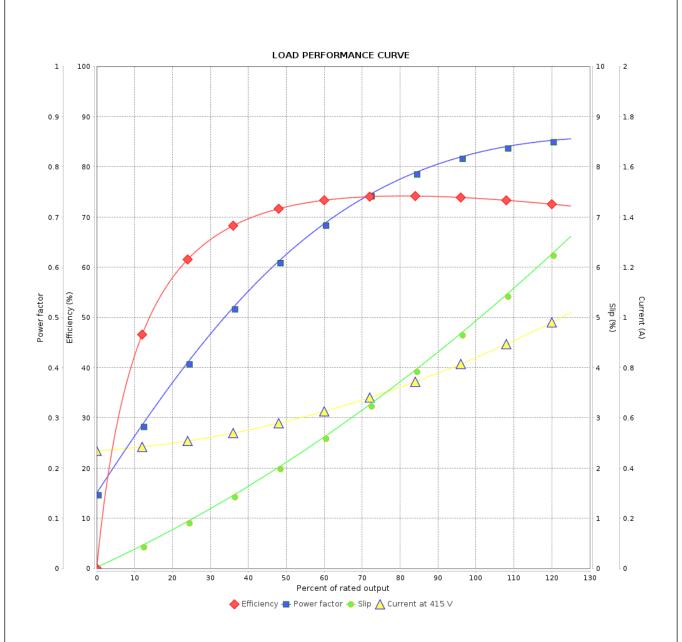
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14/01/2024

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 13422162



Performance	: 415 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 0.840 A : 6.2 : 0.127 kgfm : 240 % : 280 % : 2850 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.0004 kgm² : S1 : F : 1.25 : 80 K : N	
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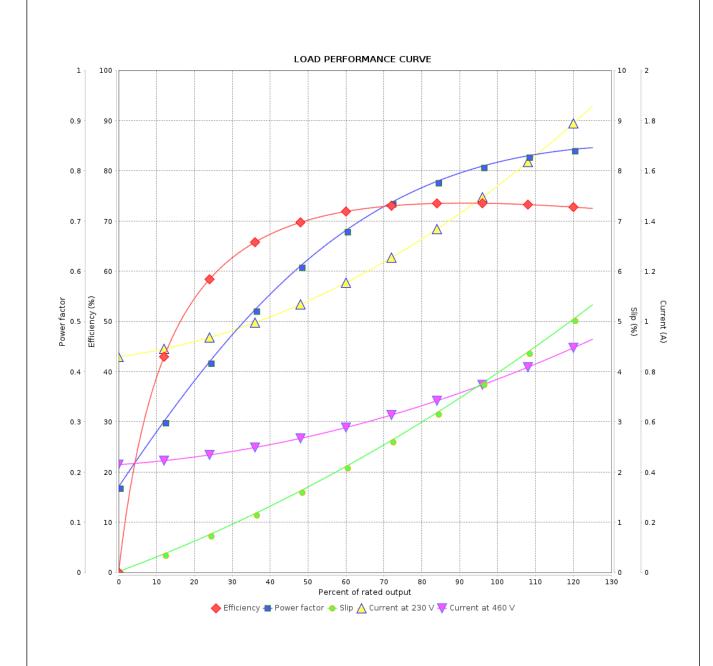
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 13422162



Performance	: 2	30/460 V 60 Hz 2P					
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7 : 0 que : 2: ue : 3	.54/0.772 A .5 .105 kgfm 80 % 10 % 455 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0004 kgm² : S1 : F : 1.25 : 80 K : N	
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