DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 12445775 : 254/6TC Cooling method : IC411 - TEFC Frame Insulation class Mounting : F-1 Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line : 1000 m.a.s.l. Approx. weight³ : 129 kg Altitude Protection degree : IP55 Moment of inertia (J) : 0.1652 kgm² Design : B Output [HP] 7.5 7.5 7.5 7.5 Poles 6 6 6 6 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 19.0/9.48 11.4 11.0 10.7 L. R. Amperes [A] 129/64.5 59.3 63.8 66.3 LRC [A] 6.8x(Code H) 5.2x(Code F) 5.8x(Code G) 6.2x(Code H) No load current [A] 9.00/4.50 4.50 4.75 4.95 Rated speed [RPM] 1178 970 975 975 Slip [%] 1.83 3.00 2.50 2.50 4.62 Rated torque [kgfm] 5.61 5.58 5.58 Locked rotor torque [%] 250 170 200 220 Breakdown torque [%] 300 220 240 260 Service factor 1.25 1.00 1.15 1.15 80 K 80 K 80 K 80 K Temperature rise 48s (cold) 27s (hot) 48s (cold) 27s (hot) Locked rotor time 54s (cold) 30s (hot) 48s (cold) 27s (hot) Noise level² 59.0 dB(A) 57.0 dB(A) 57.0 dB(A) 57.0 dB(A) 25% 50% 89.5 87.5 87.5 87.5 Efficiency (%) 75% 90.2 88.0 88.0 88.0 100% 91.0 88.0 88.0 88.0 25% 50% 0.63 0.70 0.66 0.64 Power Factor 75% 0.74 0.79 0.77 0.75 0.80 0.83 0.82 100% 0.81 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 9.6 9.6 9.6 P2 (0,5;1,0) 8.0 8.0 8.0 8.0 P3 (0,25;1,0) 7.4 7.4 7.4 7.4 P4 (0,9;0,5) Losses (%) 5.1 5.1 5.1 5.1 P5 (0,5;0,5) 3.4 3.4 3.4 3.4 P6 (0,5;0,25) 2.4 2.4 2.4 2.4 P7 (0,25;0,25) 1.7 1.7 1.7 1.7 Non drive end Foundation loads Drive end Bearing type 6309 C3 6209 C3 : 164 kgf Max. traction Sealing V'Ring V'Ring : 292 kgf Max. compression 20000 h Lubrication interval 20000 h Lubricant amount 13 g 9 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.

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DATA SHEET

Three Phase Induction Motor - Squirrel Cage



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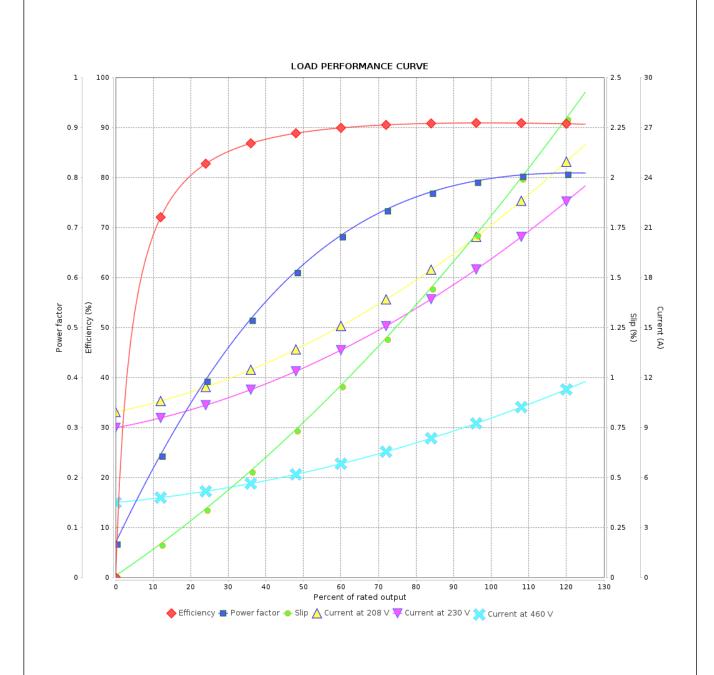
Three Phase Induction Motor - Squirrel Cage



12445775

Customer

Product line : W22 NEMA Premium Efficiency Three-Product code:



Performance	: 2	230/460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torqu	: 6 : 4 ne : 2	: 19.0/9.48 A Moment of ir : 6.8 Duty cycle : 4.62 kgfm Insulation cla : 250 % Service factor : 300 % Temperature : 1178 rpm Design		e class actor	: 0.1652 kgm² : Cont.(S1) : F : 1.25	2
Breakdown torque Rated speed				re rise : 80 K : B		
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Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W22 NEMA Premium Efficiency Three-

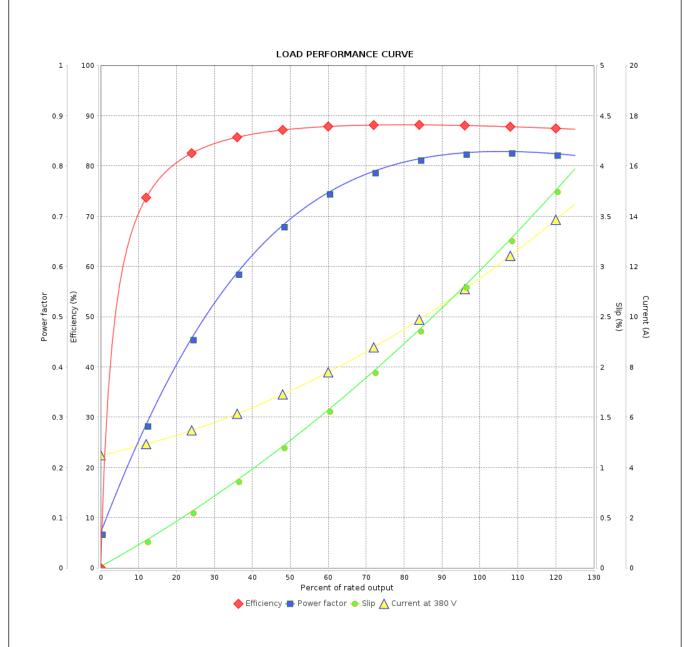
Product code:

12445775



19/05/2024

Date



Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 11.4 A : 5.2 : 5.61 kgfm : 170 % : 220 % : 970 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1652 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage

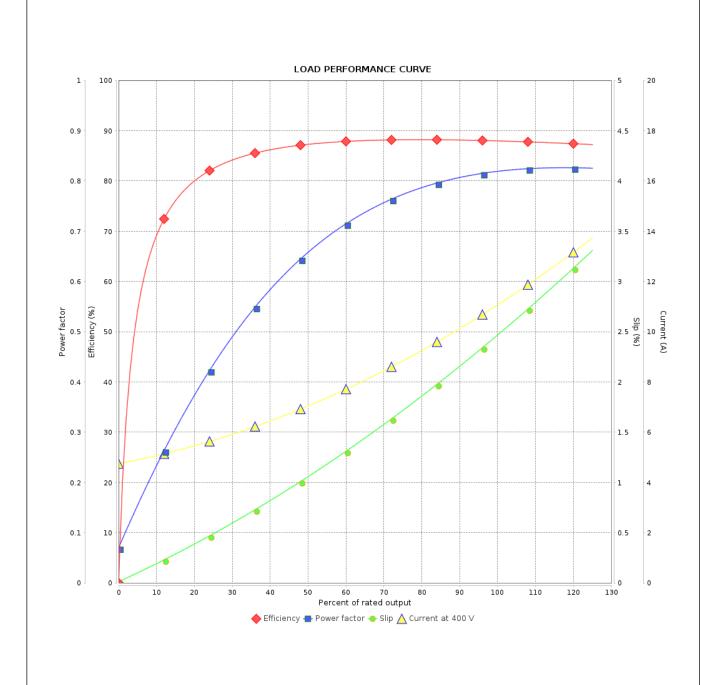


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Customer :

Product line : W22 NEMA Premium Efficiency Three- Product code :

Phase



Performance	: 40	: 400 V 50 Hz 6P IE3					
Rated current :		I.0 A	0 A Moment of inertia (J)		: 0.1652 kgm²		
LRC	: 5.	8	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque	: 5.	58 kgfm	Insulation	class	: F		
Locked rotor torqu	ue : 20	00 %	Service fa	ictor	: 1.15		
Breakdown torque	e : 24	: 240 %	Temperati	ure rise	: 80 K		
Rated speed	: 97	75 rpm Design			: B		
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-

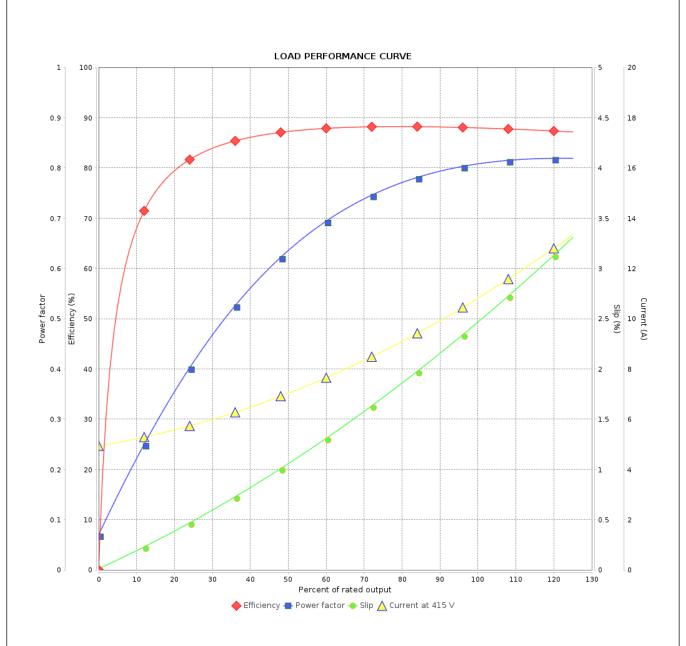
Product code:

12445775



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Date



Performance	: 415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 260 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 0.1652 kgm² : Cont.(S1) : F : 1.15 : 80 K	
Rated speed	: 975 rpm	Design		: B	
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