DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11943558 Efficiency Three-Phase Frame : 404/5TS Cooling method : IC411 - TEFC Insulation class Mounting : F-1 : F Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line Approx. weight³ Altitude : 1000 m.a.s.l. : 0.0 kg Protection degree : IP55 Moment of inertia (J) : 0.5561 kgm² Design : B Output [HP] 100 75 75 75 Poles 2 2 2 2 50 50 50 Frequency [Hz] 60 Rated voltage [V] 400/400 415/415 460 380/380 Rated current [A] 112 99.6/99.6 94.6/94.6 92.2/92.2 L. R. Amperes [A] 728 677/677 719/719 756/756 LRC [A] 6.5x(Code G) 6.8x(Code G) 7.6x(Code H) 8.2x(Code J) No load current [A] 26.0 25.7/25.7 27.5/27.5 29.1/29.1 Rated speed [RPM] 3545 2955 2960 2965 Slip [%] 1.53 1.50 1.33 1.17 Rated torque [kgfm] 20.5 18.4 18.4 18.4 Locked rotor torque [%] 240 250 280 300 Breakdown torque [%] 260 280 310 330 Service factor 1.25 1.00 1.00 1.00 80 K 80 K 80 K 80 K Temperature rise Locked rotor time 25s (cold) 14s (hot) 18s (cold) 10s (hot) 18s (cold) 10s (hot) 18s (cold) 10s (hot) Noise level² 79.0 dB(A) 74.0 dB(A) 74.0 dB(A) 74.0 dB(A) 25% 0.000 50% 93.0 93.0 93.1 93.5 Efficiency (%) 75% 94.1 93.8 93.8 94.0 100% 94.1 94.3 94.3 94.3 25% 0.00 50% 0.83 0.82 0.80 0.78 Power Factor 75% 0.88 0.88 0.86 0.85 0.89 0.89 0.88 100% 0.89 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 5.9 5.9 5.9 P2 (0,5;1,0) 4.6 4.6 4.6 4.6 P3 (0,25;1,0) 4.4 4.4 4.4 4.4 P4 (0,9;0,5) 2.8 2.8 2.8 2.8 Losses (%) P5 (0,5;0,5) 1.6 1.6 1.6 1.6 P6 (0,5;0,25) 0.9 0.9 0.9 0.9 P7 (0,25;0,25) 0.5 0.5 0.5 0.5 Non drive end Foundation loads Drive end 6314 C3 6314 C3 Bearing type : 596 kgf Max. traction Sealing **Taconite Taconite** : 596 kgf Max. compression Labyrinth Labyrinth 4000 h 4000 h Lubrication interval Lubricant amount 27 g 27 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). Performed Checked Rev. **Changes Summary** Date Performed by Checked by Page Revision

23/10/2024

Date

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



		- Wotor Oquin	- Gage			
Customer	:					
NI-4						
Notes						
Rev.		Changes Summary		Performed	Checked	Date
Performed by						I
					Page	Revision
Checked by	00/40/0004				Page	\ \C6\I2I0∏

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

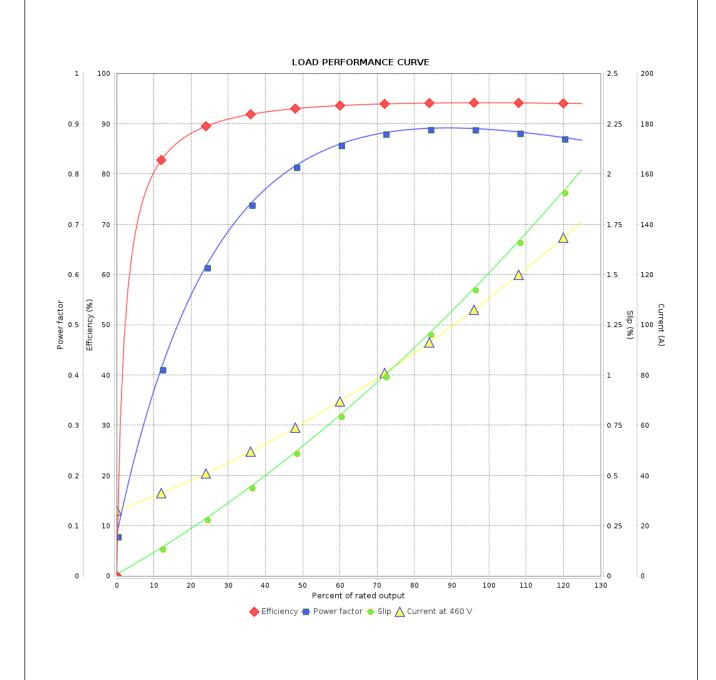


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11943558



Performance		: 460 V 60 Hz 2P							
Rated current	: 1	: 112 A Mo		of inertia (J)	: 0.5561 kgm²				
LRC	: 6	.5 Duty cycle		: Cont.(S1)					
Rated torque	: 2	0.5 kgfm	fm Insulation class		: F				
Locked rotor torq	ue : 2	40 %	Service factor		: 1.25				
Breakdown torqu	ie : 2	: 260 % : 3545 rpm		Temperature rise Design		: 80 K : B			
Rated speed	: 3								
Rev.	Changes Summary			Performed	Checked	Date			
Performed by									
Checked by					Page	Revision			
Date	23/10/2024	7			3/				