

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line	: W22 IEEE 841 NEMA Premium Efficiency Three-Phase	Product code :	11943494			
Frame	: 364/5TS	Locked rotor time	: 18s (cold) 10s (hot)			
Output	: 75 HP (55 kW)	Temperature rise	: 80 K			
Poles	: 2	Duty cycle	: Cont.(S1)			
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C			
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.			
Rated current	: 65.5 A	Protection degree	: IP55			
L. R. Amperes	: 432 A	Cooling method	: IC411 - TEFC			
LRC	: 6.6x(Code G)	Mounting	: F-1			
No load current	: 15.2 A	Rotation ¹	: Both (CW and CCW)			
Rated speed	: 3550 rpm	Noise level ²	: 79.0 dB(A)			
Slip	: 1.39 %	Starting method	: Direct On Line			
Rated torque	: 15.3 kgfm	Approx. weight ³	: 401 kg			
Locked rotor torque	: 220 %					
Breakdown torque	: 270 %					
Insulation class	: F					
Service factor	: 1.25					
Moment of inertia (J)	: 0.5023 kgm ²					
Design	: B					
Output	50%	75%	100%			
Efficiency (%)	92.4	93.6	93.6			
Power Factor	0.83	0.88	0.90			
Foundation loads		Max. traction : 264 kgf				
		Max. compression : 665 kgf				
Losses at normative operating points (speed;torque), in percentage of rated output power						
P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
6.4	4.9	4.7	3.1	1.8	1.0	0.6
Bearing type		<u>Drive end</u>	<u>Non drive end</u>			
Sealing		6314 C3	6314 C3			
Lubrication interval		Taconite Labyrinth	Taconite Labyrinth			
Lubricant amount		4000 h	4000 h			
Lubricant type		27 g	27 g			
		Mobil Polyrex EM				
Notes:						
This revision replaces and cancel the previous one, which must be eliminated. (1) Looking the motor from the shaft end. (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.				These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.		
Rev.	Changes Summary			Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/01/2024				1 / 2	

LOAD PERFORMANCE CURVE

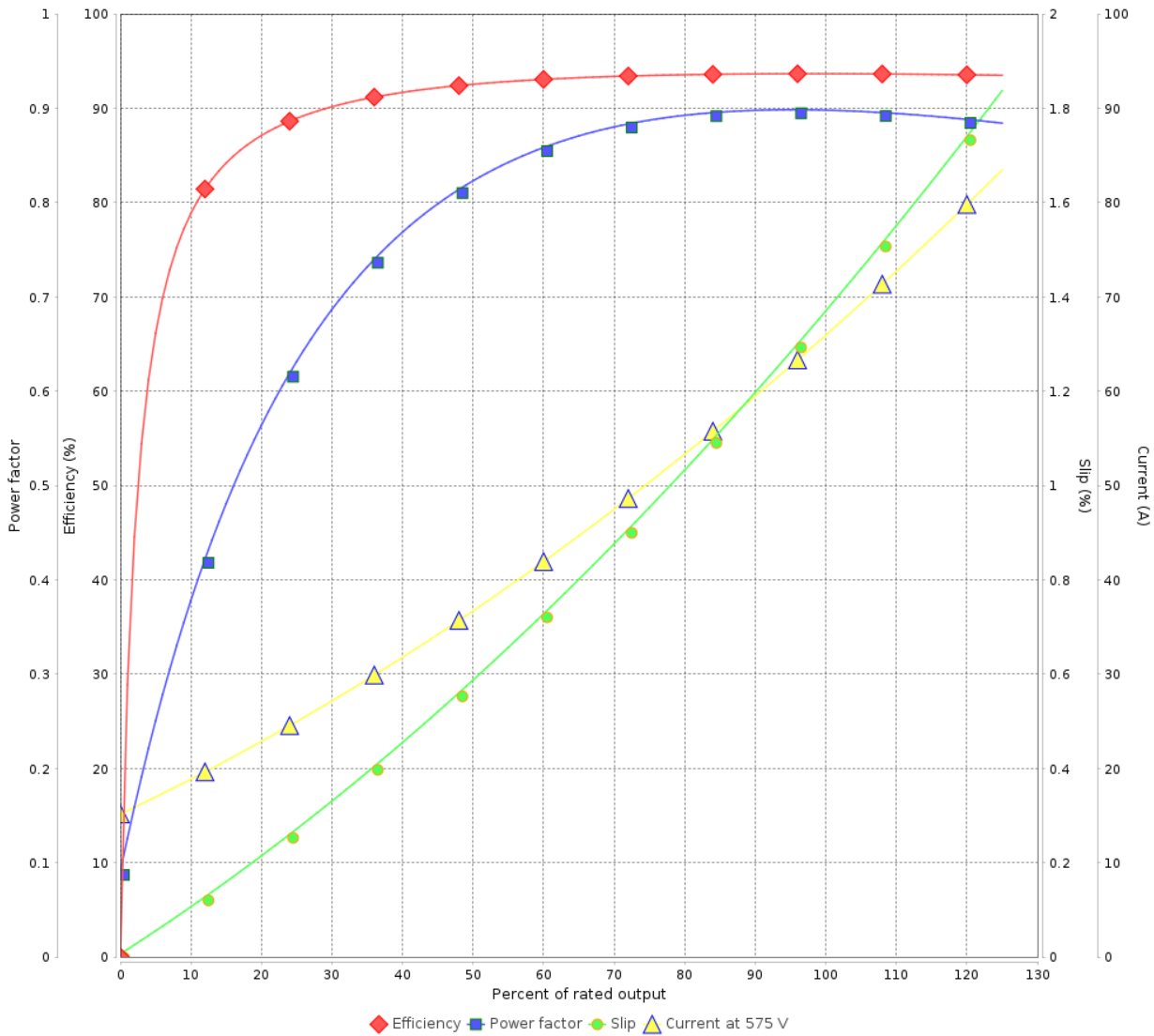
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 11943494

LOAD PERFORMANCE CURVE



Performance : 575 V 60 Hz 2P

Rated current	: 65.5 A	Moment of inertia (J)	: 0.5023 kgm ²
LRC	: 6.6	Duty cycle	: Cont.(S1)
Rated torque	: 15.3 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 3550 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		2 / 2		
Date	13/01/2024			