

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :							
Product line	: W22 NEMA Premium Efficiency Three-Phase						
Product code :	14226460						
Frame : 213/5TC Output : 3 HP (2.2 kW) Poles : 8 Frequency : 60 Hz Rated voltage : 575 V Rated current : 3.69 A L. R. Amperes : 25.1 A LRC : 6.8x(Code K) No load current : 2.40 A Rated speed : 870 rpm Slip : 3.33 % Rated torque : 2.50 kgfm Locked rotor torque : 220 % Breakdown torque : 300 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.0888 kgm ² Design : B	Locked rotor time : 79s (cold) 44s (hot) Temperature rise : 80 K Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP55 Cooling method : IC411 - TEFC Mounting : F-1 Rotation ¹ : Both (CW and CCW) Noise level ² : 52.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 81.8 kg						
Output	50% 75% 100%						
Efficiency (%)	84.0 85.5 85.5						
Power Factor	0.49 0.62 0.70						
Foundation loads							
Max. traction : 98 kgf							
Max. compression : 180 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)	
19.1	18.2	17.9	9.5	7.8	5.8	4.5	
		<u>Drive end</u>		<u>Non drive end</u>			
Bearing type	:	6308 ZZ		6207 ZZ			
Sealing	:	V'Ring		V'Ring			
Lubrication interval	:	-		-			
Lubricant amount	:	-		-			
Lubricant type	:	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	15/01/2024				1 / 2		

LOAD PERFORMANCE CURVE

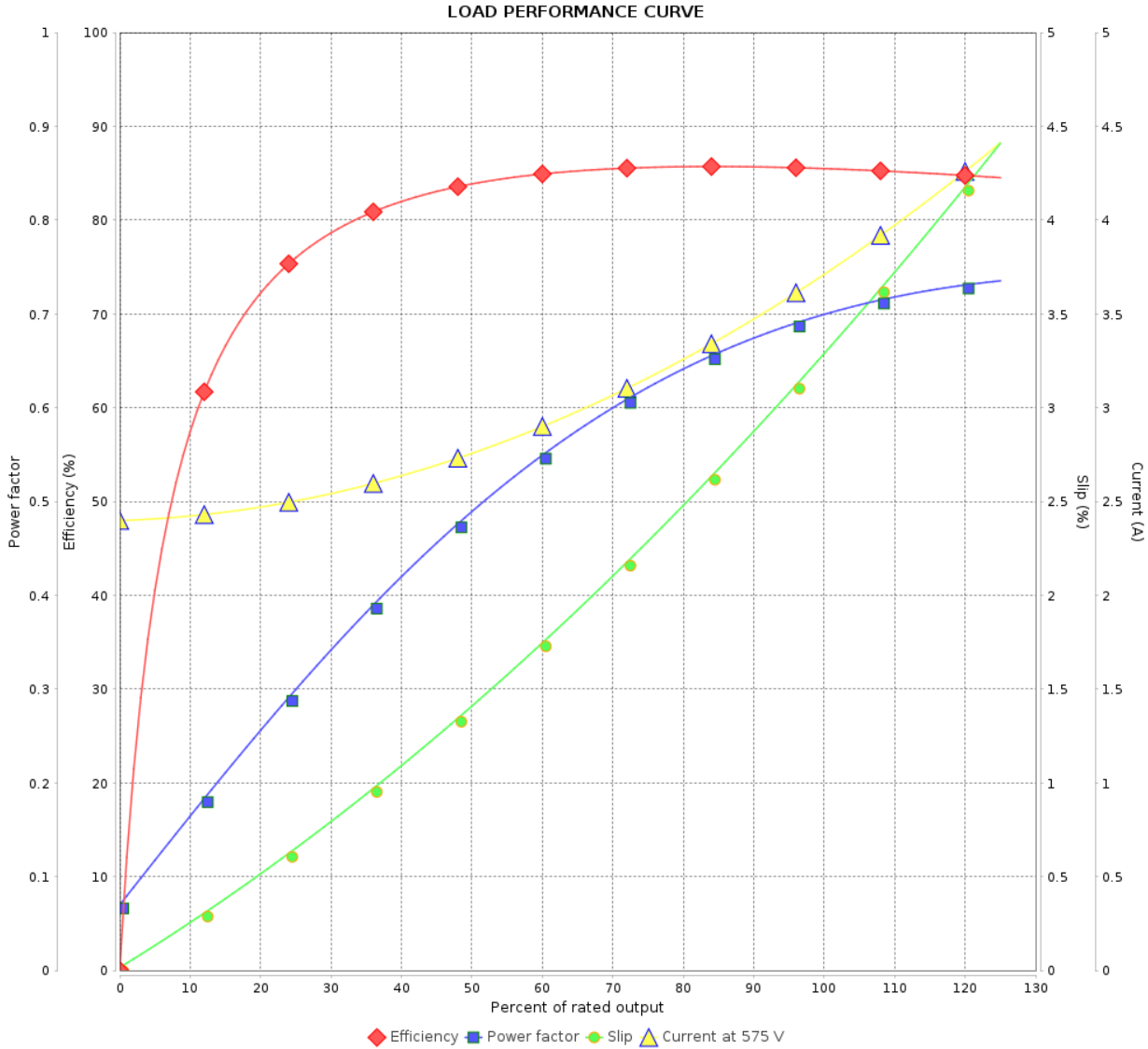
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 14226460



Performance : 575 V 60 Hz 8P

Rated current : 3.69 A
 LRC : 6.8
 Rated torque : 2.50 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 300 %
 Rated speed : 870 rpm

Moment of inertia (J) : 0.0888 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 2	Revision
Checked by				
Date	15/01/2024			