

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	12717830			
Frame	: 213/5T	Locked rotor time	: 36s (cold) 20s (hot)			
Output	: 7.5 HP (5.5 kW)	Temperature rise	: 80 K			
Poles	: 4	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	: 7.34 A	Protection degree	: IP55			
L. R. Amperes	: 52.1 A	Cooling method	: IC411 - TEFC			
LRC	: 7.1x(Code H)	Mounting	: F-1			
No load current	: 3.36 A	Rotation <sup>1</sup>	: Both (CW and CCW)			
Rated speed	: 1765 rpm	Noise level <sup>2</sup>	: 58.0 dB(A)			
Slip	: 1.94 %	Starting method	: Direct On Line			
Rated torque	: 3.08 kgfm	Approx. weight <sup>3</sup>	: 74.8 kg			
Locked rotor torque	: 220 %					
Breakdown torque	: 310 %					
Insulation class	: F					
Service factor	: 1.25					
Moment of inertia (J)	: 0.0566 kgm <sup>2</sup>					
Design	: B					
Output	50%	75%	100%			
Efficiency (%)	89.5	91.0	91.7			
Power Factor	0.66	0.76	0.82			
Foundation loads						
Max. traction		: 139 kgf				
Max. compression		: 214 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)
8.8	7.0	6.5	4.9	3.3	2.4	1.6
		<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	01/02/2024				1 / 2	

# LOAD PERFORMANCE CURVE

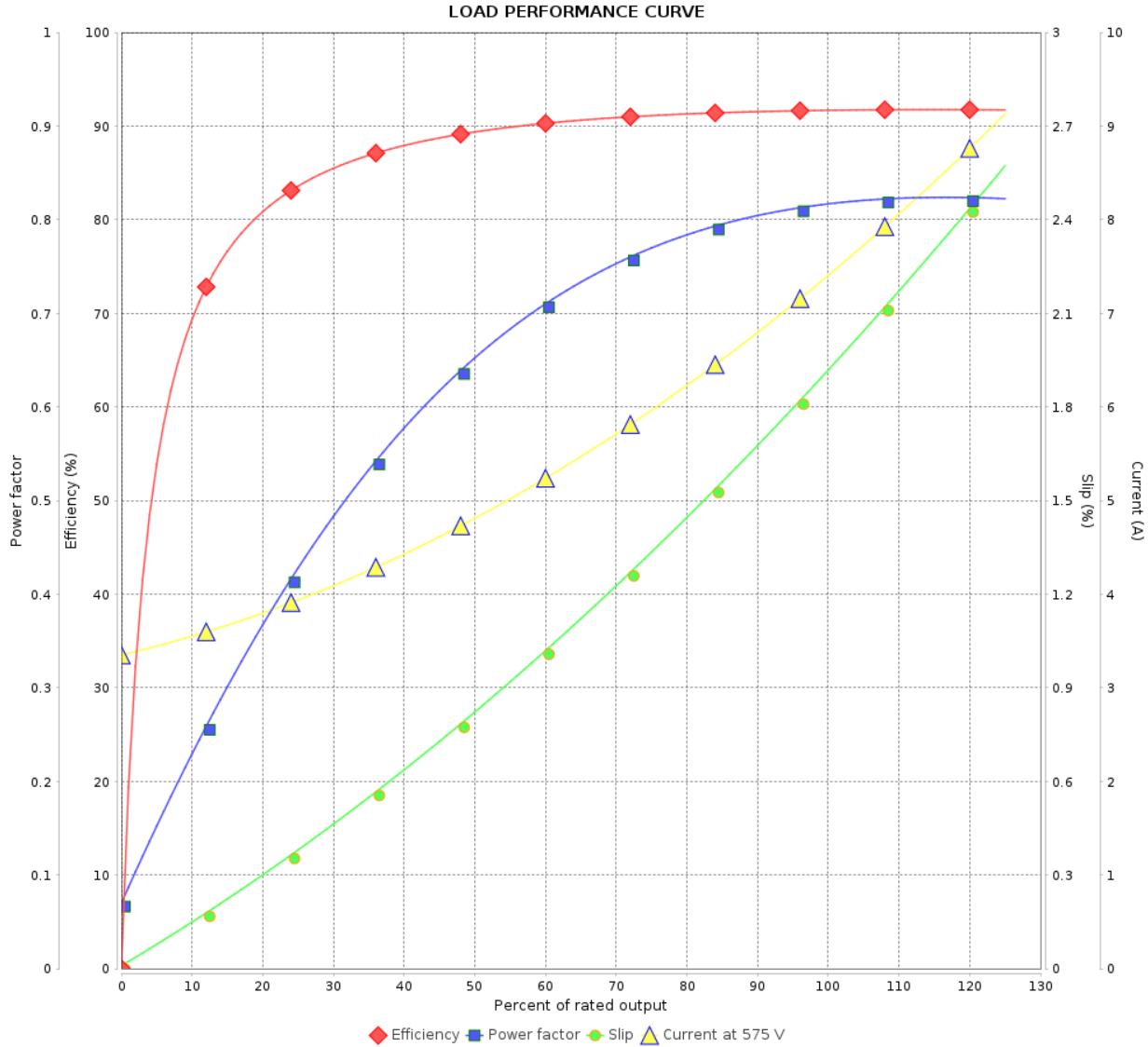
Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12717830



Performance : 575 V 60 Hz 4P

Rated current : 7.34 A  
 LRC : 7.1  
 Rated torque : 3.08 kgfm  
 Locked rotor torque : 220 %  
 Breakdown torque : 310 %  
 Rated speed : 1765 rpm

Moment of inertia (J) : 0.0566 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.25  
 Temperature rise : 80 K  
 Design : B

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