

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W22 NEMA Premium Efficiency Three-Phase			Product code : 11165759			
Frame	: 404/5T			Locked rotor time	: 36s (cold) 20s (hot)	
Output	: 60 HP (45 kW)			Temperature rise	: 80 K	
Poles	: 6			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	: 55.6 A			Protection degree	: IP55	
L. R. Amperes	: 395 A			Cooling method	: IC411 - TEFC	
LRC	: 7.1x(Code H)			Mounting	: F-1	
No load current	: 20.0 A			Rotation <sup>1</sup>	: Both (CW and CCW)	
Rated speed	: 1185 rpm			Noise level <sup>2</sup>	: 68.0 dB(A)	
Slip	: 1.25 %			Starting method	: Direct On Line	
Rated torque	: 36.7 kgfm			Approx. weight <sup>3</sup>	: 519 kg	
Locked rotor torque	: 200 %					
Breakdown torque	: 229 %					
Insulation class	: F					
Service factor	: 1.25					
Moment of inertia (J)	: 1.55 kgm <sup>2</sup>					
Design	: B					
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	94.0	94.1	94.5	94.5	Max. traction	: 572 kgf
Power Factor	0.48	0.74	0.82	0.86	Max. compression	: 1092 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)
5.6	4.6	4.3	2.6	1.8	1.1	0.7
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	NU-316 C3		6314 C3		
Sealing	:	WSeal		WSeal		
Lubrication interval	:	12000 h		17000 h		
Lubricant amount	:	34 g		27 g		
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	13/01/2024				1 / 2	

# LOAD PERFORMANCE CURVE

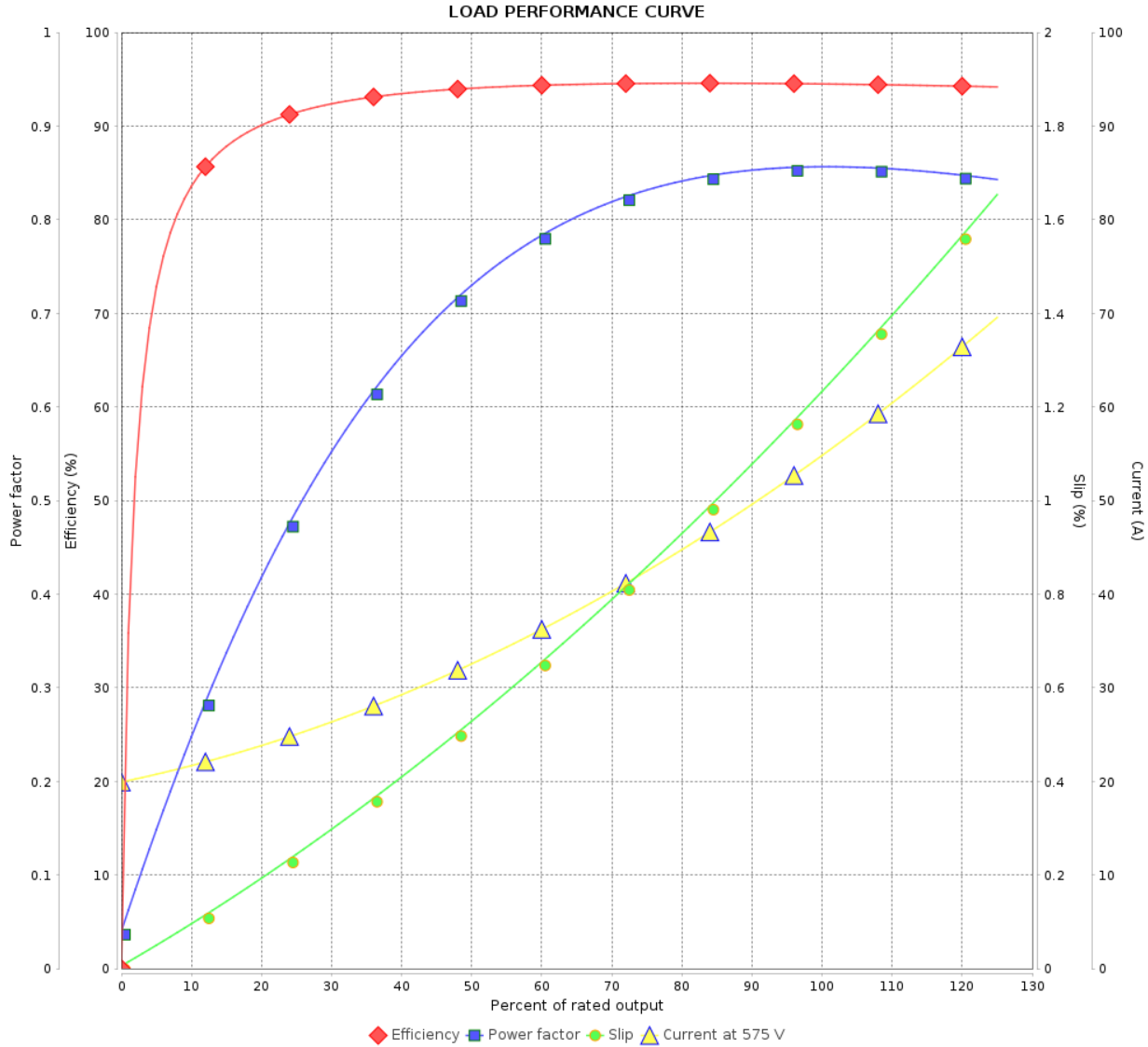
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11165759



Performance : 575 V 60 Hz 6P

Rated current : 55.6 A  
 LRC : 7.1  
 Rated torque : 36.7 kgfm  
 Locked rotor torque : 200 %  
 Breakdown torque : 229 %  
 Rated speed : 1185 rpm

Moment of inertia (J) : 1.55 kgm<sup>2</sup>  
 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	13/01/2024			