

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :													
Product line : W22 NEMA Premium Efficiency Three-Phase	Product code : 11856861												
Frame : 213/5T 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 <sup>2</sup> 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 <sup>1</sup> : Both (CW and CCW) Noise level <sup>2</sup> : 52.0 dB(A) Starting method : Direct On Line Approx. weight <sup>3</sup> : 80.2 kg												
<table border="1"> <tr> <td>Output</td> <td>50%</td> <td>75%</td> <td>100%</td> </tr> <tr> <td>Efficiency (%)</td> <td>84.0</td> <td>85.5</td> <td>85.5</td> </tr> <tr> <td>Power Factor</td> <td>0.49</td> <td>0.62</td> <td>0.70</td> </tr> </table>	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 : 179 kgf
Output	50%	75%	100%										
Efficiency (%)	84.0	85.5	85.5										
Power Factor	0.49	0.62	0.70										
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	01/02/2024				1 / 2								

# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

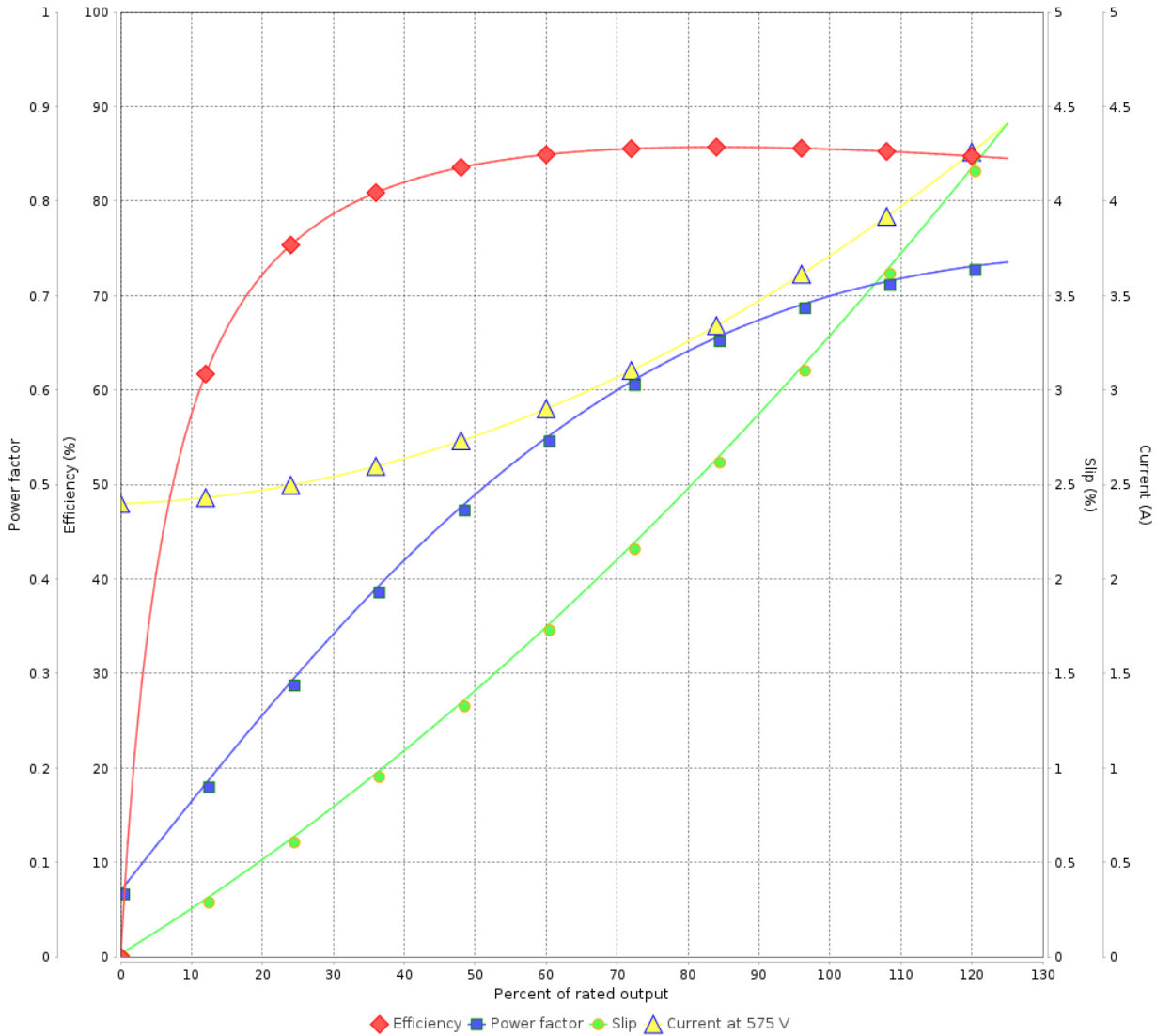


Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11856861

LOAD PERFORMANCE CURVE



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 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	01/02/2024			