

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W22 NEMA Premium Efficiency Three-Phase			Product code : 12751349			
Frame	: 364/5TC		Locked rotor time	: 32s (cold) 18s (hot)		
Output	: 50 HP (37 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	: 45.9 A		Protection degree	: IP55		
L. R. Amperes	: 294 A		Cooling method	: IC411 - TEFC		
LRC	: 6.4x(Code G)		Mounting	: F-1		
No load current	: 16.0 A		Rotation <sup>1</sup>	: Both (CW and CCW)		
Rated speed	: 1183 rpm		Noise level <sup>2</sup>	: 66.0 dB(A)		
Slip	: 1.42 %		Starting method	: Direct On Line		
Rated torque	: 30.7 kgfm		Approx. weight <sup>3</sup>	: 414 kg		
Locked rotor torque	: 200 %					
Breakdown torque	: 240 %					
Insulation class	: F					
Service factor	: 1.25					
Moment of inertia (J)	: 1.36 kgm <sup>2</sup>					
Design	: B					
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	93.6	94.1	94.1	Max. traction : 620 kgf		
Power Factor	0.74	0.83	0.86	Max. compression : 1034 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)
6.2	5.2	4.6	2.8	1.9	1.2	0.8
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6314 C3		6314 C3		
Sealing	:	Oil Seal		Oil Seal		
Lubrication interval	:	17000 h		17000 h		
Lubricant amount	:	27 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	18/03/2024				1 / 2	

# LOAD PERFORMANCE CURVE

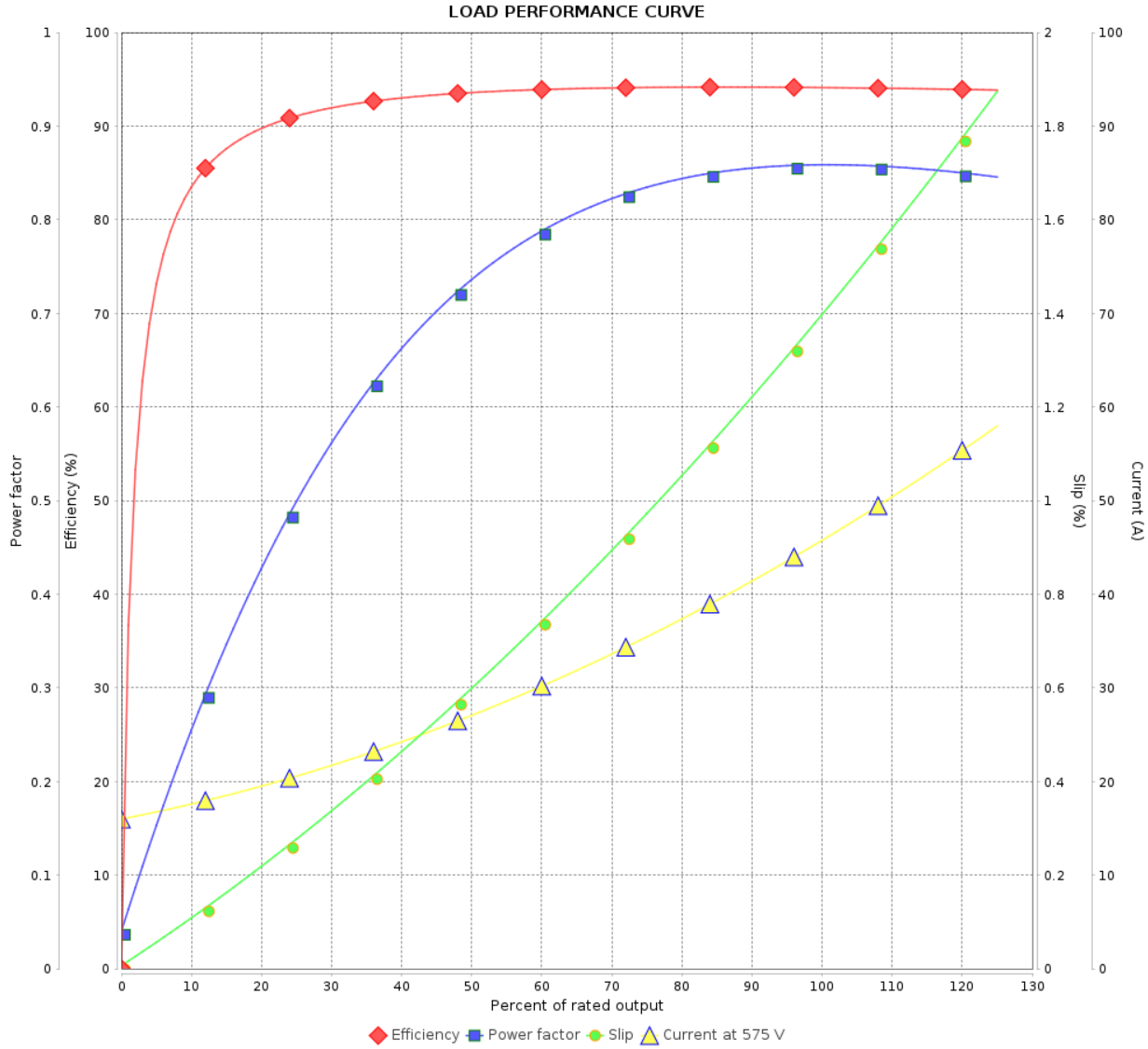
Three Phase Induction Motor - Squirrel Cage



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

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12751349



Performance : 575 V 60 Hz 6P

Rated current : 45.9 A  
 LRC : 6.4  
 Rated torque : 30.7 kgfm  
 Locked rotor torque : 200 %  
 Breakdown torque : 240 %  
 Rated speed : 1183 rpm

Moment of inertia (J) : 1.36 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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