

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W22 IEEE 841 NEMA Premium Efficiency Three-Phase			Product code : 12970188	
Frame	: 364/5T			Locked rotor time	: 46s (cold) 26s (hot)	
Output	: 40 HP (30 kW)			Temperature rise	: 80 K	
Poles	: 8			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	: 40.7 A			Protection degree	: IP56	
L. R. Amperes	: 240 A			Cooling method	: IC411 - TEFC	
LRC	: 5.9x(Code G)			Mounting	: F-1	
No load current	: 17.2 A			Rotation <sup>1</sup>	: Both (CW and CCW)	
Rated speed	: 882 rpm			Noise level <sup>2</sup>	: 60.0 dB(A)	
Slip	: 2.00 %			Starting method	: Direct On Line	
Rated torque	: 32.9 kgfm			Approx. weight <sup>3</sup>	: 394 kg	
Locked rotor torque	: 170 %					
Breakdown torque	: 210 %					
Insulation class	: F					
Service factor	: 1.25					
Moment of inertia (J)	: 1.22 kgm <sup>2</sup>					
Design	: B					
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	92.7	92.4	93.0	92.4	Max. traction : 579 kgf	
Power Factor	0.40	0.65	0.75	0.80	Max. compression : 973 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)
8.1	7.1	6.5	3.6	2.6	1.6	1.2
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6314 C3		6314 C3		
Sealing	:	Inpro/Seal		Inpro/Seal		
Lubrication interval	:	20000 h		20000 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
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# LOAD PERFORMANCE CURVE

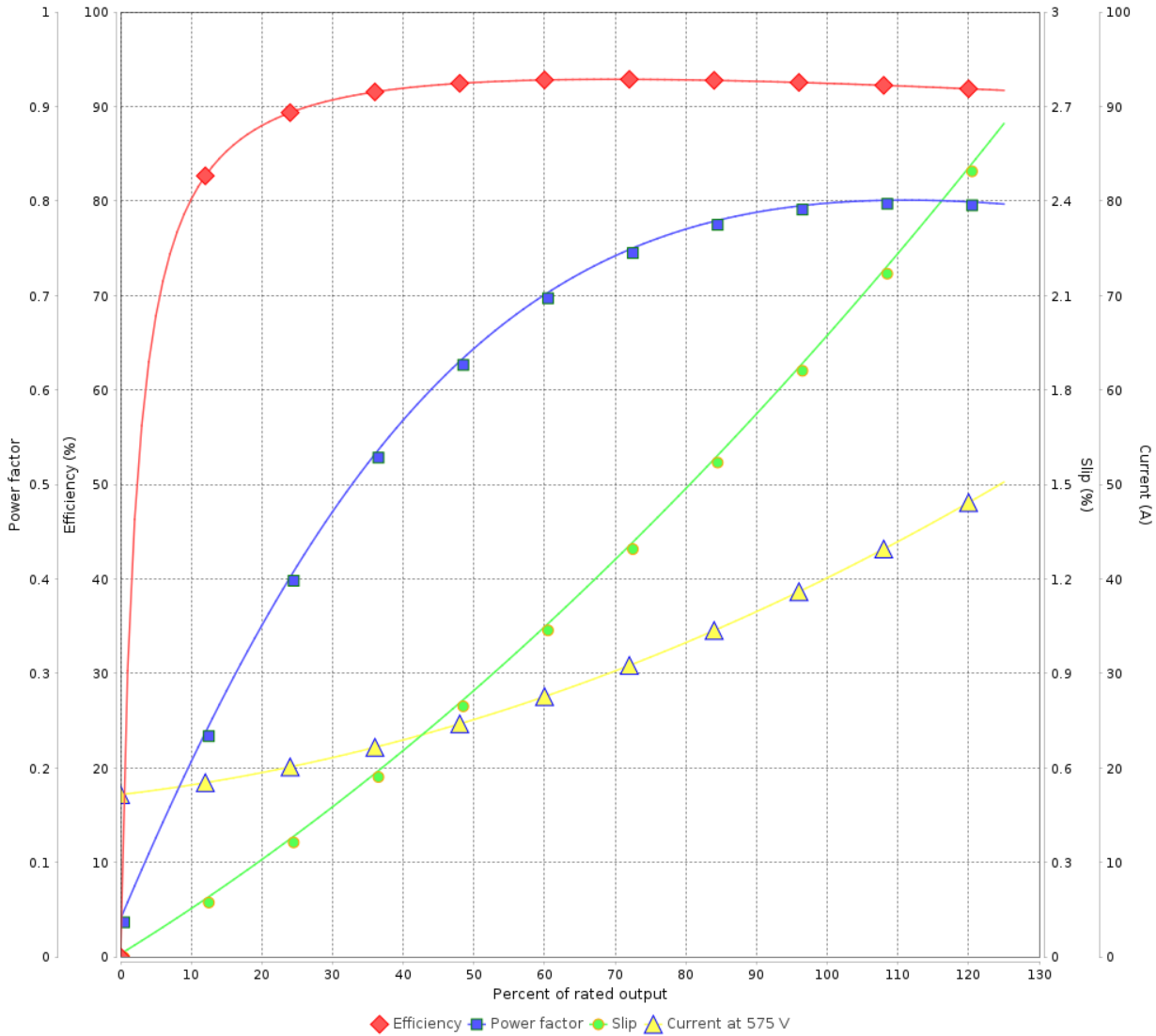
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase      Product code : 12970188

LOAD PERFORMANCE CURVE



Performance : 575 V 60 Hz 8P

Rated current	: 40.7 A	Moment of inertia (J)	: 1.22 kgm <sup>2</sup>
LRC	: 5.9	Duty cycle	: Cont.(S1)
Rated torque	: 32.9 kgfm	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.25
Breakdown torque	: 210 %	Temperature rise	: 80 K
Rated speed	: 882 rpm	Design	: B

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