

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11990710			
Frame	: 182/4TC	Locked rotor time	: 55s (cold) 31s (hot)			
Output	: 2 HP (1.5 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	: 2.58 A	Protection degree	: IP55			
L. R. Amperes	: 19.3 A	Cooling method	: IC411 - TEFC			
LRC	: 7.5x(Code L)	Mounting	: F-1			
No load current	: 1.52 A	Rotation ¹	: Both (CW and CCW)			
Rated speed	: 1170 rpm	Noise level ²	: 52.0 dB(A)			
Slip	: 2.50 %	Starting method	: Direct On Line			
Rated torque	: 1.24 kgfm	Approx. weight ³	: 46.3 kg			
Locked rotor torque	: 300 %					
Breakdown torque	: 350 %					
Insulation class	: F					
Service factor	: 1.25					
Moment of inertia (J)	: 0.0262 kgm ²					
Design	: B					
Output	50%	75%	100%			
Efficiency (%)	86.5	87.5	88.5			
Power Factor	0.46	0.58	0.66			
Foundation loads						
Max. traction		: 68 kgf				
Max. compression		: 114 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)
12.3	9.8	9.2	7.4	5.0	3.9	2.9
		<u>Drive end</u>	<u>Non drive end</u>			
Bearing type	:	6207 ZZ	6206 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	24/04/2024				1 / 2	

LOAD PERFORMANCE CURVE

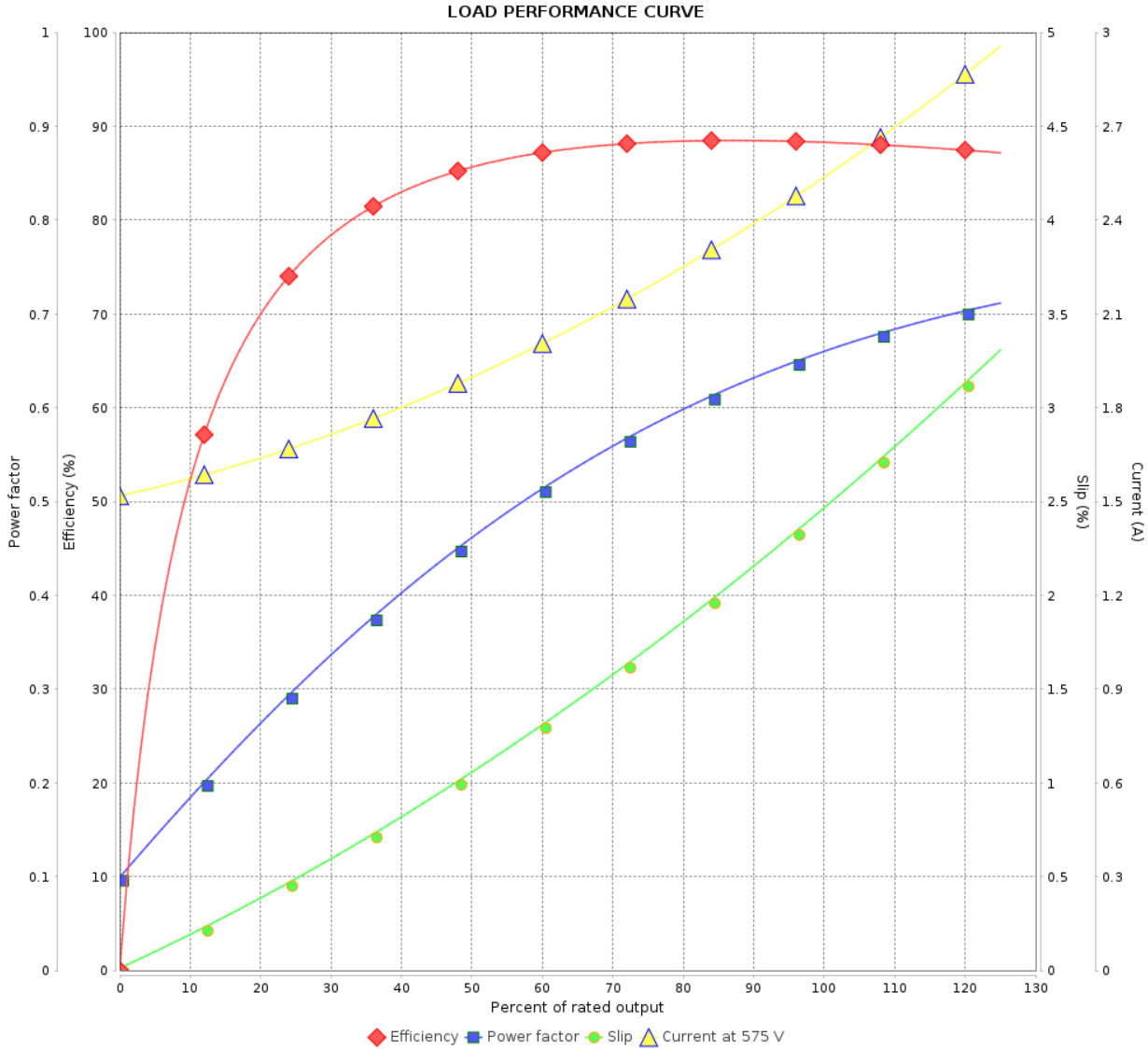
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Product code : 11990710



Performance : 575 V 60 Hz 6P

Rated current : 2.58 A
 LRC : 7.5
 Rated torque : 1.24 kgfm
 Locked rotor torque : 300 %
 Breakdown torque : 350 %
 Rated speed : 1170 rpm

Moment of inertia (J) : 0.0262 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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