

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W22 NEMA Premium Efficiency Three-Phase			Product code : 14087905			
Frame	: 182/4TC			Locked rotor time	: 39s (cold) 22s (hot)	
Output	: 1 HP (0.75 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	: 1.84 A			Protection degree	: IP55	
L. R. Amperes	: 11.0 A			Cooling method	: IC411 - TEFC	
LRC	: 6.0x(Code N)			Mounting	: F-1	
No load current	: 1.36 A			Rotation ¹	: Both (CW and CCW)	
Rated speed	: 875 rpm			Noise level ²	: 50.0 dB(A)	
Slip	: 2.78 %			Starting method	: Direct On Line	
Rated torque	: 0.825 kgfm			Approx. weight ³	: 38.5 kg	
Locked rotor torque	: 300 %					
Breakdown torque	: 350 %					
Insulation class	: F					
Service factor	: 1.25					
Moment of inertia (J)	: 0.0168 kgm ²					
Design	: B					
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	74.0	77.0	78.5	Max. traction : 41 kgf		
Power Factor	0.32	0.42	0.52	Max. compression : 80 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)
26.3	21.5	19.6	19.2	14.6	13.1	10.6
		<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
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Date	15/01/2024				1 / 2	

LOAD PERFORMANCE CURVE

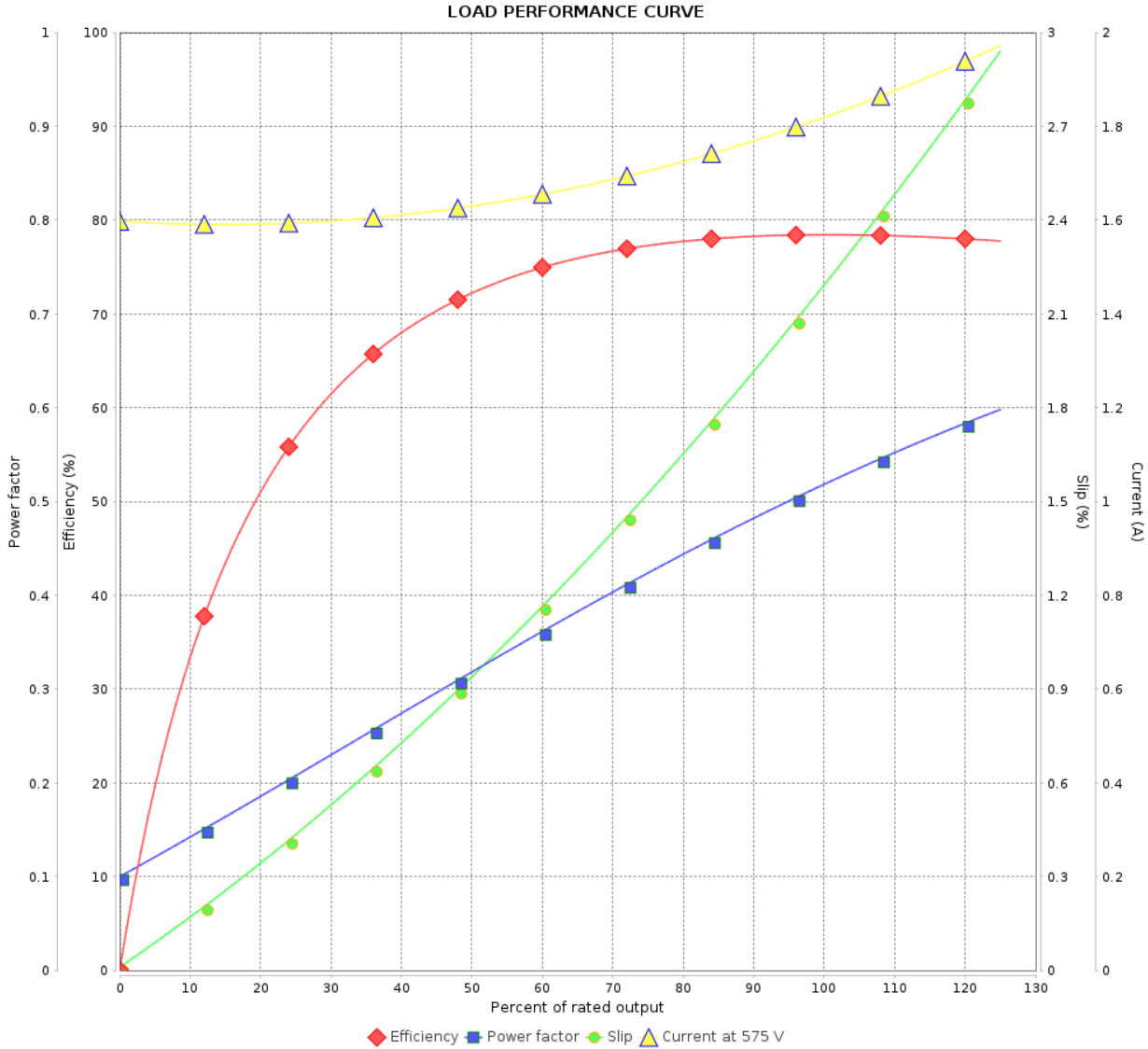
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Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 14087905



Performance : 575 V 60 Hz 8P

Rated current : 1.84 A
 LRC : 6.0
 Rated torque : 0.825 kgfm
 Locked rotor torque : 300 %
 Breakdown torque : 350 %
 Rated speed : 875 rpm

Moment of inertia (J) : 0.0168 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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