

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :						
Product line : W22 NEMA Premium Efficiency Three-Phase			Product code :		14226461	
Frame	: 182/4TC		Locked rotor time	: 30s (cold) 17s (hot)		
Output	: 1.5 HP (1.1 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	: 2.16 A		Protection degree	: IP55		
L. R. Amperes	: 12.7 A		Cooling method	: IC411 - TEFC		
LRC	: 5.9x(Code K)		Mounting	: F-1		
No load current	: 1.60 A		Rotation ¹	: Both (CW and CCW)		
Rated speed	: 865 rpm		Noise level ²	: 50.0 dB(A)		
Slip	: 3.89 %		Starting method	: Direct On Line		
Rated torque	: 1.27 kgfm		Approx. weight ³	: 46.0 kg		
Locked rotor torque	: 290 %					
Breakdown torque	: 340 %					
Insulation class	: F					
Service factor	: 1.25					
Moment of inertia (J)	: 0.0243 kgm ²					
Design	: B					
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	80.0	82.5	82.5	Max. traction : 66 kgf		
Power Factor	0.43	0.54	0.62	Max. compression : 112 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)
20.4	17.4	16.9	13.0	10.0	8.3	6.7
		<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	15/01/2024				1 / 2	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

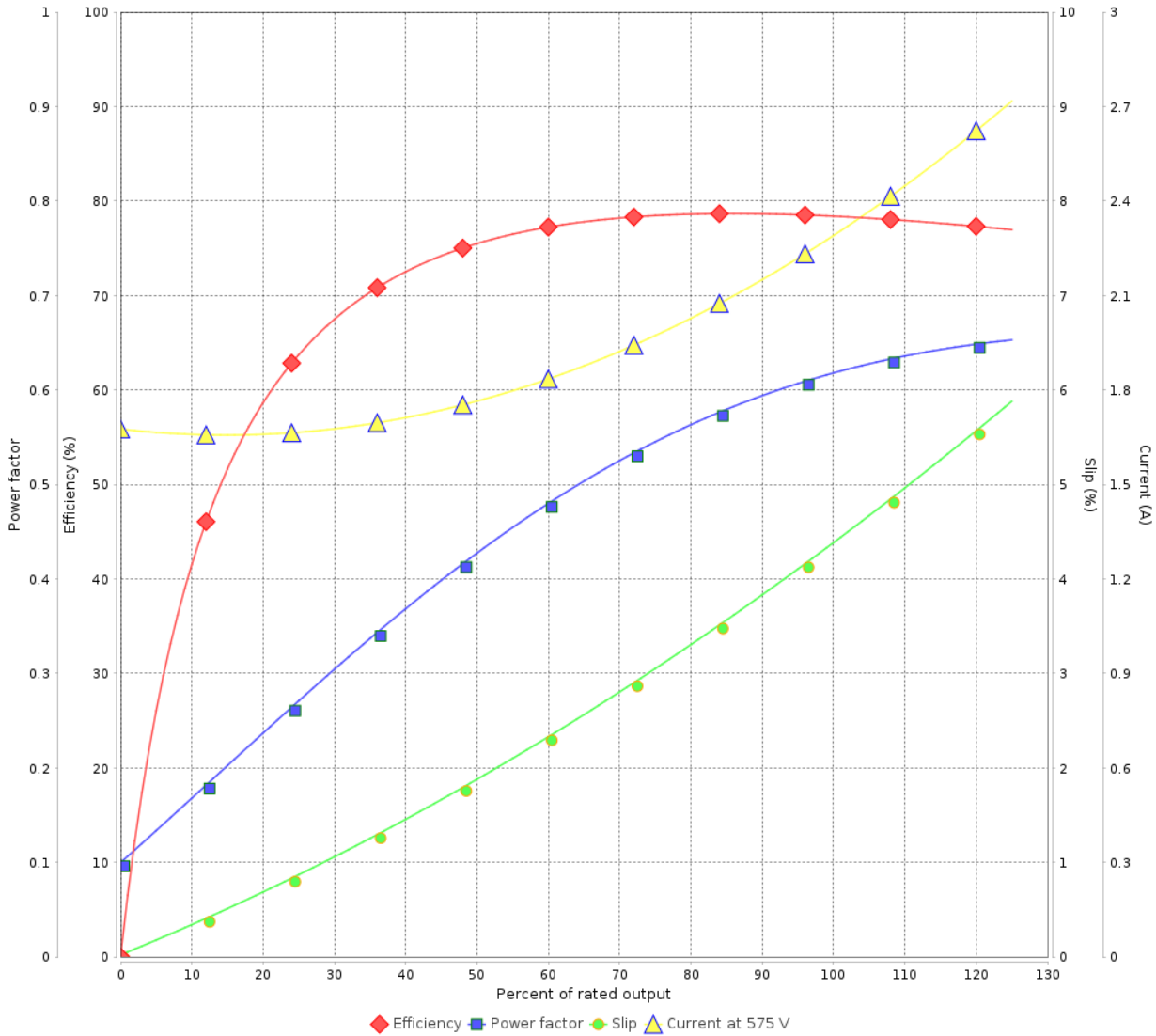


Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 14226461

LOAD PERFORMANCE CURVE



Performance : 575 V 60 Hz 8P

Rated current : 2.16 A
 LRC : 5.9
 Rated torque : 1.27 kgfm
 Locked rotor torque : 290 %
 Breakdown torque : 340 %
 Rated speed : 865 rpm

Moment of inertia (J) : 0.0243 kgm²
 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	15/01/2024			