

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :							
Product line : W22 NEMA Premium Efficiency Three-Phase			Product code : 12810585				
Frame	: 182/4TD			Locked rotor time	: 27s (cold) 15s (hot)		
Output	: 5 HP (3.7 kW)			Temperature rise	: 80 K		
Poles	: 4			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	: 5.19 A			Protection degree	: IP55		
L. R. Amperes	: 38.9 A			Cooling method	: IC411 - TEFC		
LRC	: 7.5x(Code J)			Mounting	: F-1		
No load current	: 2.32 A			Rotation ¹	: Both (CW and CCW)		
Rated speed	: 1750 rpm			Noise level ²	: 56.0 dB(A)		
Slip	: 2.78 %			Starting method	: Direct On Line		
Rated torque	: 2.07 kgfm			Approx. weight ³	: 46.3 kg		
Locked rotor torque	: 229 %						
Breakdown torque	: 290 %						
Insulation class	: F						
Service factor	: 1.25						
Moment of inertia (J)	: 0.0169 kgm ²						
Design	: B						
Output	25%	50%	75%	100%	Foundation loads		
Efficiency (%)	0.000	88.5	89.5	89.5	Max. traction : 103 kgf		
Power Factor	0.00	0.62	0.74	0.80	Max. compression : 149 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)	
11.2	9.4	8.7	5.3	3.7	2.4	1.7	
		<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	06/02/2024				1 / 2		

LOAD PERFORMANCE CURVE

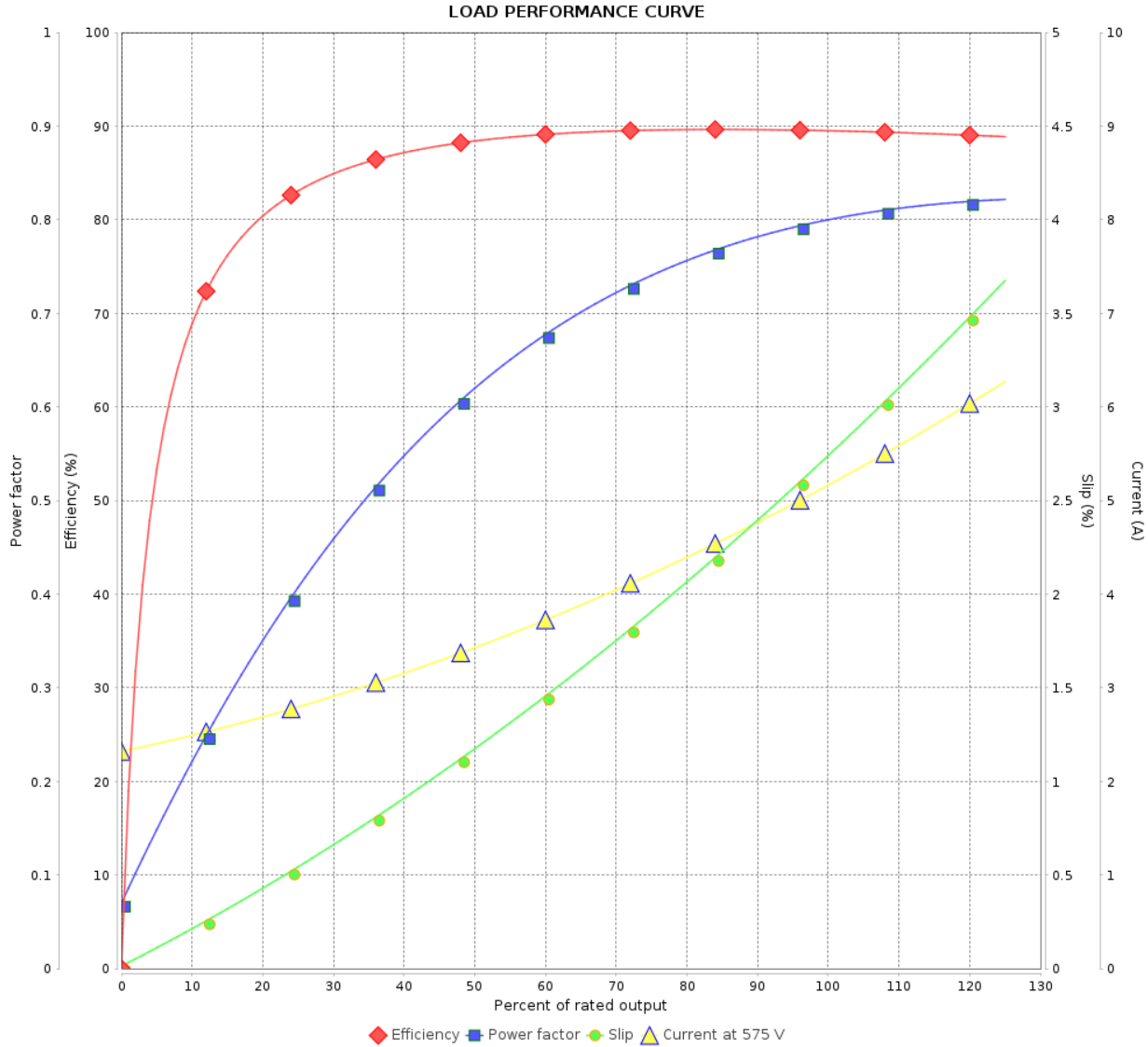
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12810585



Performance : 575 V 60 Hz 4P

Rated current : 5.19 A
 LRC : 7.5
 Rated torque : 2.07 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 290 %
 Rated speed : 1750 rpm

Moment of inertia (J) : 0.0169 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	06/02/2024			