

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :							
Product line		: W22 IEEE 841 NEMA Premium Efficiency Three-Phase			Product code :		12936434
Frame	:	213/5T		Locked rotor time	:	102s (cold) 57s (hot)	
Output	:	5 HP (3.7 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	:	5.46 A		Protection degree	:	IP55	
L. R. Amperes	:	37.2 A		Cooling method	:	IC411 - TEFC	
LRC	:	6.8x(Code J)		Mounting	:	F-1	
No load current	:	2.76 A		Rotation ¹	:	Both (CW and CCW)	
Rated speed	:	1170 rpm		Noise level ²	:	55.0 dB(A)	
Slip	:	2.50 %		Starting method	:	Direct On Line	
Rated torque	:	3.10 kgfm		Approx. weight ³	:	82.2 kg	
Locked rotor torque	:	170 %					
Breakdown torque	:	260 %					
Insulation class	:	F					
Service factor	:	1.25					
Moment of inertia (J)	:	0.0620 kgm ²					
Design	:	B					
Output	50%	75%	100%	Foundation loads			
Efficiency (%)	88.5	89.5	89.5	Max. traction		: 108 kgf	
Power Factor	0.58	0.70	0.76	Max. compression		: 190 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)	
11.1	9.1	8.9	5.7	3.9	2.8	2.0	
		<u>Drive end</u>		<u>Non drive end</u>			
Bearing type	:	6308 C3		6207 C3			
Sealing	:	Taconite Labyrinth		Taconite Labyrinth			
Lubrication interval	:	20000 h		20000 h			
Lubricant amount	:	11 g		7 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	
Performed by							
Checked by					Page	Revision	
Date	13/01/2024				1 / 2		

LOAD PERFORMANCE CURVE

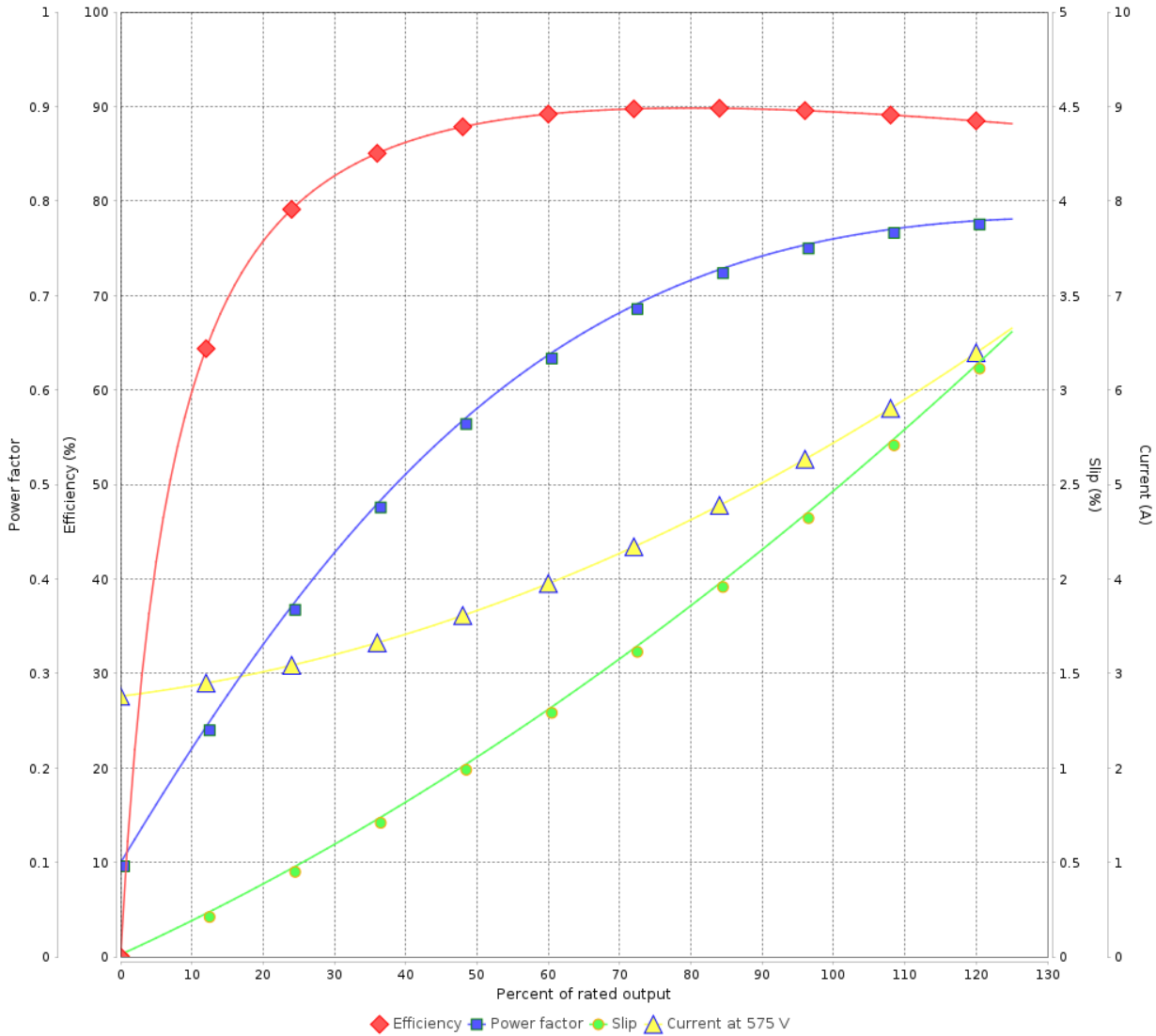
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 12936434

LOAD PERFORMANCE CURVE



Performance : 575 V 60 Hz 6P

Rated current	: 5.46 A	Moment of inertia (J)	: 0.0620 kgm ²
LRC	: 6.8	Duty cycle	: Cont.(S1)
Rated torque	: 3.10 kgfm	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1170 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		2 / 2		
Date	13/01/2024			