

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W22 IEEE 841 NEMA Premium Efficiency Three-Phase		Product code :		11943001
Frame	:	284/6TC		Locked rotor time	:	36s (cold) 20s (hot)
Output	:	30 HP (22 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	:	28.1 A		Protection degree	:	IP55
L. R. Amperes	:	171 A		Cooling method	:	IC411 - TEFC
LRC	:	6.1x(Code G)		Mounting	:	F-1
No load current	:	9.84 A		Rotation ¹	:	Both (CW and CCW)
Rated speed	:	1770 rpm		Noise level ²	:	63.0 dB(A)
Slip	:	1.67 %		Starting method	:	Direct On Line
Rated torque	:	12.3 kgfm		Approx. weight ³	:	209 kg
Locked rotor torque	:	240 %				
Breakdown torque	:	240 %				
Insulation class	:	F				
Service factor	:	1.25				
Moment of inertia (J)	:	0.2467 kgm ²				
Design	:	B				
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	93.0	93.0	93.6	Max. traction : 318 kgf		
Power Factor	0.70	0.80	0.84	Max. compression : 527 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)
6.8	5.8	5.2	3.1	2.2	1.4	0.9
			<u>Drive end</u>	<u>Non drive end</u>		
Bearing type	:	6311 C3		6211 C3		
Sealing	:	Taconite Labyrinth		Taconite Labyrinth		
Lubrication interval	:	20000 h		20000 h		
Lubricant amount	:	18 g		11 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

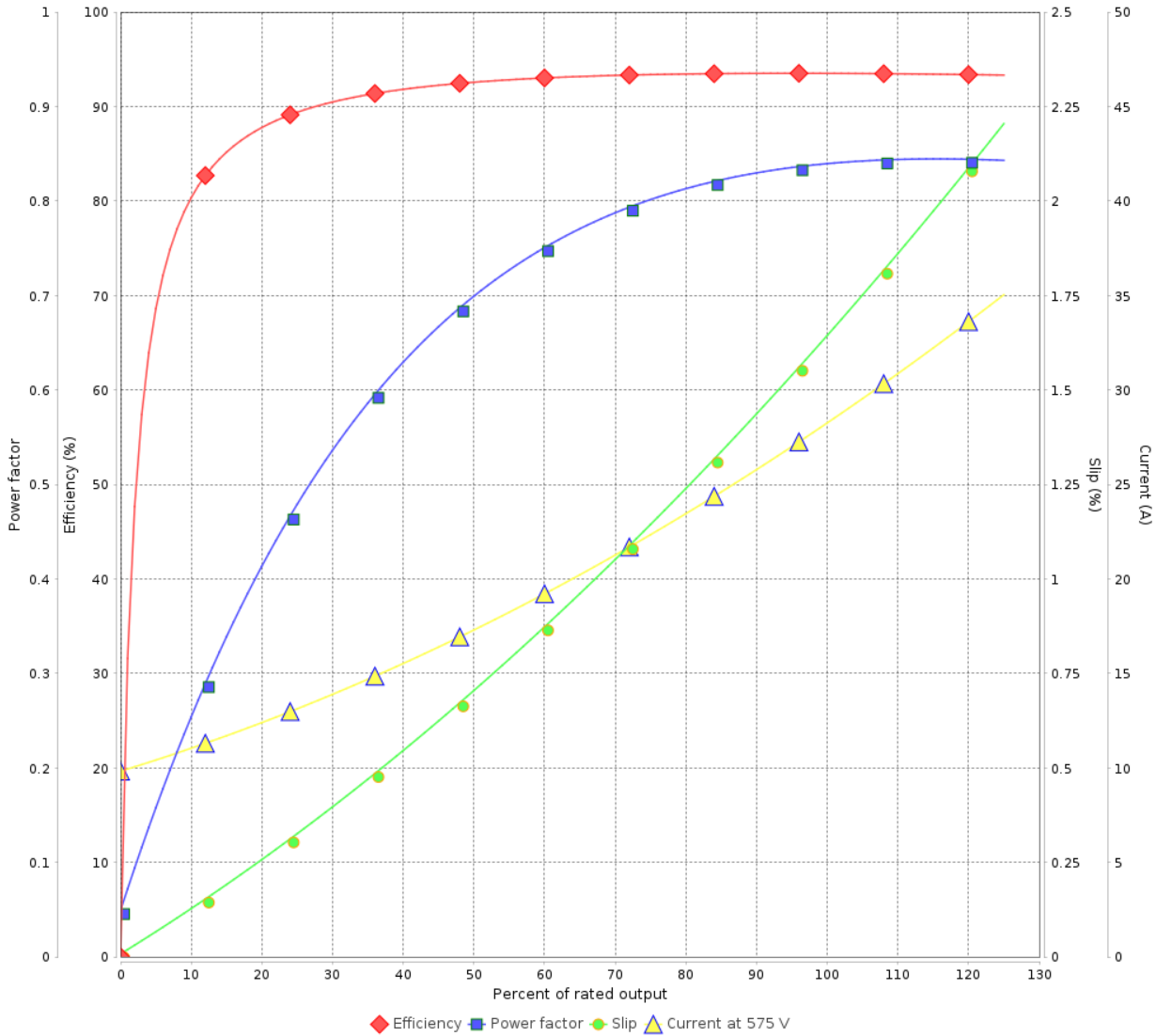
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 11943001

LOAD PERFORMANCE CURVE



Performance : 575 V 60 Hz 4P

Rated current : 28.1 A
 LRC : 6.1
 Rated torque : 12.3 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 240 %
 Rated speed : 1770 rpm

Moment of inertia (J) : 0.2467 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	13/01/2024			