

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :							
Product line		: W22 IEEE 841 NEMA Premium Efficiency Three-Phase		Product code :		11943143	
Frame	: 364/5T	Locked rotor time	: 46s (cold) 26s (hot)	Output	: 40 HP (30 kW)	Temperature rise	: 80 K
Poles	: 8	Duty cycle	: Cont.(S1)	Rated voltage	: 575 V	Ambient temperature	: -20°C to +40°C
Frequency	: 60 Hz	Altitude	: 1000 m.a.s.l.	Rated current	: 40.7 A	Protection degree	: IP55
L. R. Amperes	: 240 A	Cooling method	: IC411 - TEFC	L. R. Amperes	: 240 A	Mounting	: F-1
LRC	: 5.9x(Code G)	Rotation ¹	: Both (CW and CCW)	LRC	: 5.9x(Code G)	Noise level ²	: 60.0 dB(A)
No load current	: 17.2 A	Starting method	: Direct On Line	No load current	: 17.2 A	Approx. weight ³	: 399 kg
Rated speed	: 882 rpm			Rated speed	: 882 rpm		
Slip	: 2.00 %			Slip	: 2.00 %		
Rated torque	: 32.9 kgfm			Rated torque	: 32.9 kgfm		
Locked rotor torque	: 170 %			Locked rotor torque	: 170 %		
Breakdown torque	: 210 %			Breakdown torque	: 210 %		
Insulation class	: F			Insulation class	: F		
Service factor	: 1.25			Service factor	: 1.25		
Moment of inertia (J)	: 1.22 kgm ²			Moment of inertia (J)	: 1.22 kgm ²		
Design	: B			Design	: B		
Output	50%	75%	100%	Foundation loads			
Efficiency (%)	92.4	93.0	92.4	Max. traction	: 577 kgf		
Power Factor	0.65	0.75	0.80	Max. compression	: 975 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)	
8.1	7.1	6.5	3.6	2.6	1.6	1.2	
		<u>Drive end</u>		<u>Non drive end</u>			
Bearing type	:	6314 C3		6314 C3			
Sealing	:	Taconite Labyrinth		Taconite Labyrinth			
Lubrication interval	:	20000 h		20000 h			
Lubricant amount	:	27 g		27 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.			
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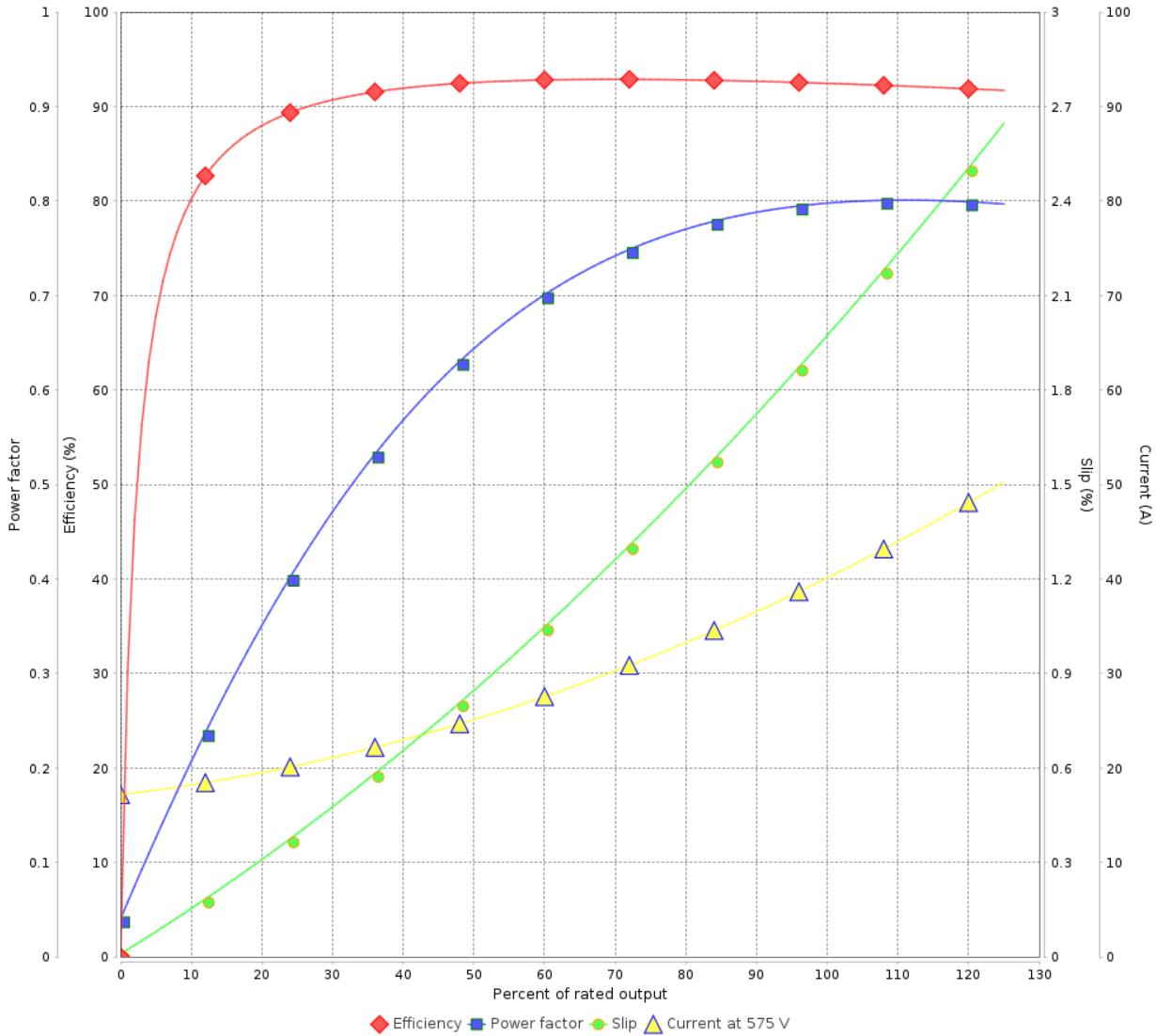
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Customer : _____

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 11943143

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Performance : 575 V 60 Hz 8P

Rated current	: 40.7 A	Moment of inertia (J)	: 1.22 kgm ²
LRC	: 5.9	Duty cycle	: Cont.(S1)
Rated torque	: 32.9 kgfm	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.25
Breakdown torque	: 210 %	Temperature rise	: 80 K
Rated speed	: 882 rpm	Design	: B

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