

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :							
Product line		: W22 IEEE 841 NEMA Premium Efficiency Three-Phase			Product code :		11434561
Frame	:	404/5TS			Locked rotor time	:	25s (cold) 14s (hot)
Output	:	100 HP (75 kW)			Temperature rise	:	80 K
Poles	:	2			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	:	89.6 A			Protection degree	:	IP56
L. R. Amperes	:	582 A			Cooling method	:	IC411 - TEFC
LRC	:	6.5x(Code G)			Mounting	:	F-1
No load current	:	20.8 A			Rotation ¹	:	Both (CW and CCW)
Rated speed	:	3545 rpm			Noise level ²	:	79.0 dB(A)
Slip	:	1.53 %			Starting method	:	Direct On Line
Rated torque	:	20.5 kgfm			Approx. weight ³	:	510 kg
Locked rotor torque	:	240 %					
Breakdown torque	:	260 %					
Insulation class	:	F					
Service factor	:	1.25					
Moment of inertia (J)	:	0.5561 kgm ²					
Design	:	B					
Output	25%	50%	75%	100%	Foundation loads		
Efficiency (%)	92.8	93.0	94.1	94.1	Max. traction	:	269 kgf
Power Factor	0.61	0.83	0.88	0.89	Max. compression	:	779 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)	
5.9	4.6	4.4	2.8	1.6	0.9	0.5	
		<u>Drive end</u>		<u>Non drive end</u>			
Bearing type	:	6314 C3		6314 C3			
Sealing	:	Inpro/Seal		Inpro/Seal			
Lubrication interval	:	4000 h		4000 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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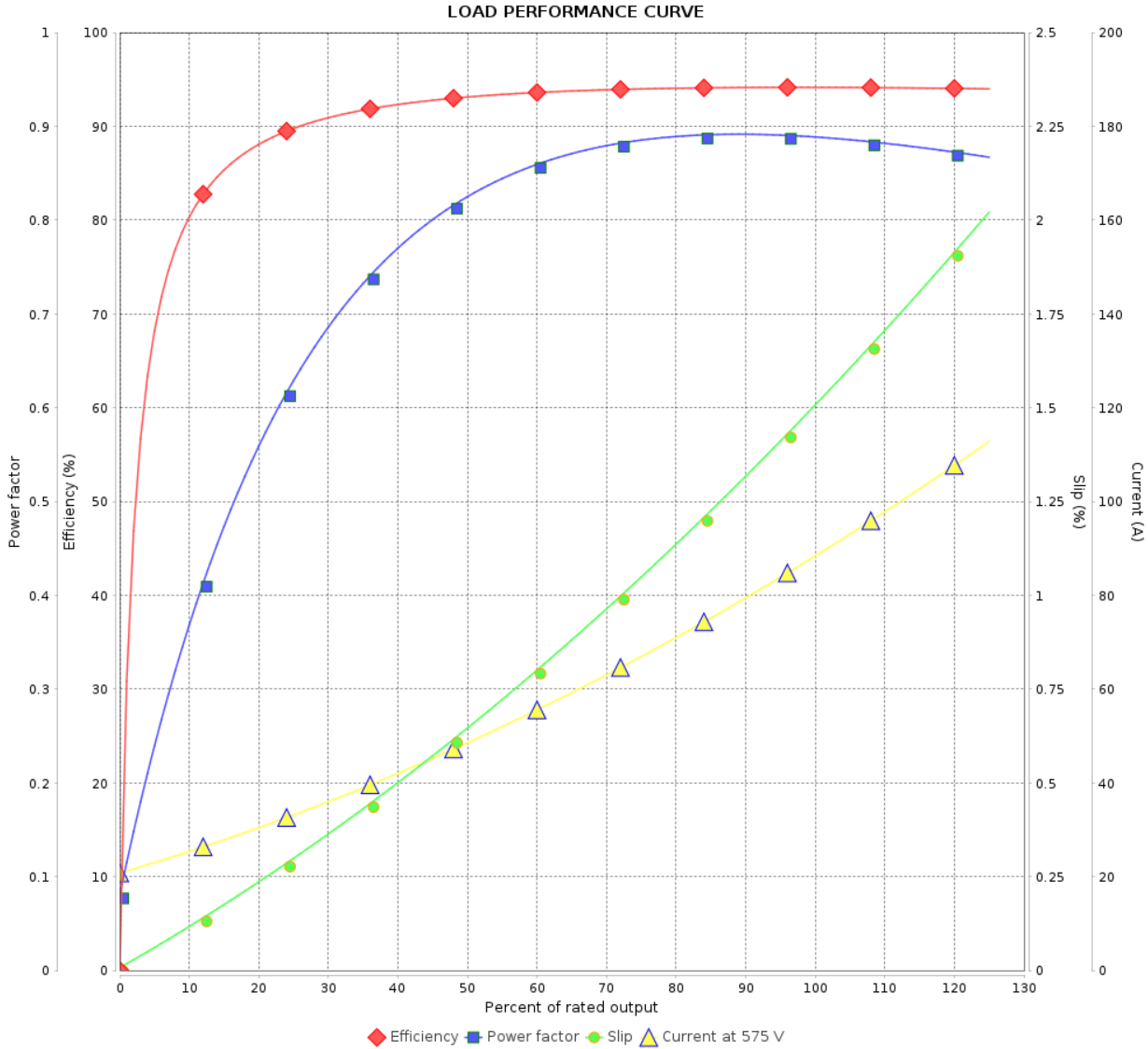
LOAD PERFORMANCE CURVE

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Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 11434561



Performance : 575 V 60 Hz 2P

Rated current	: 89.6 A	Moment of inertia (J)	: 0.5561 kgm ²
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 20.5 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 3545 rpm	Design	: B

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