

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W22 NEMA Premium Efficiency Three-Phase		Product code :		12001938
Frame	:	404/5TSC		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	:	IP55
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	:	514 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	50%	75%	100%	Foundation loads		
Efficiency (%)	93.0	94.1	94.1	Max. traction	:	267 kgf
Power Factor	0.83	0.88	0.89	Max. compression	:	781 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	:	Oil Seal		Oil 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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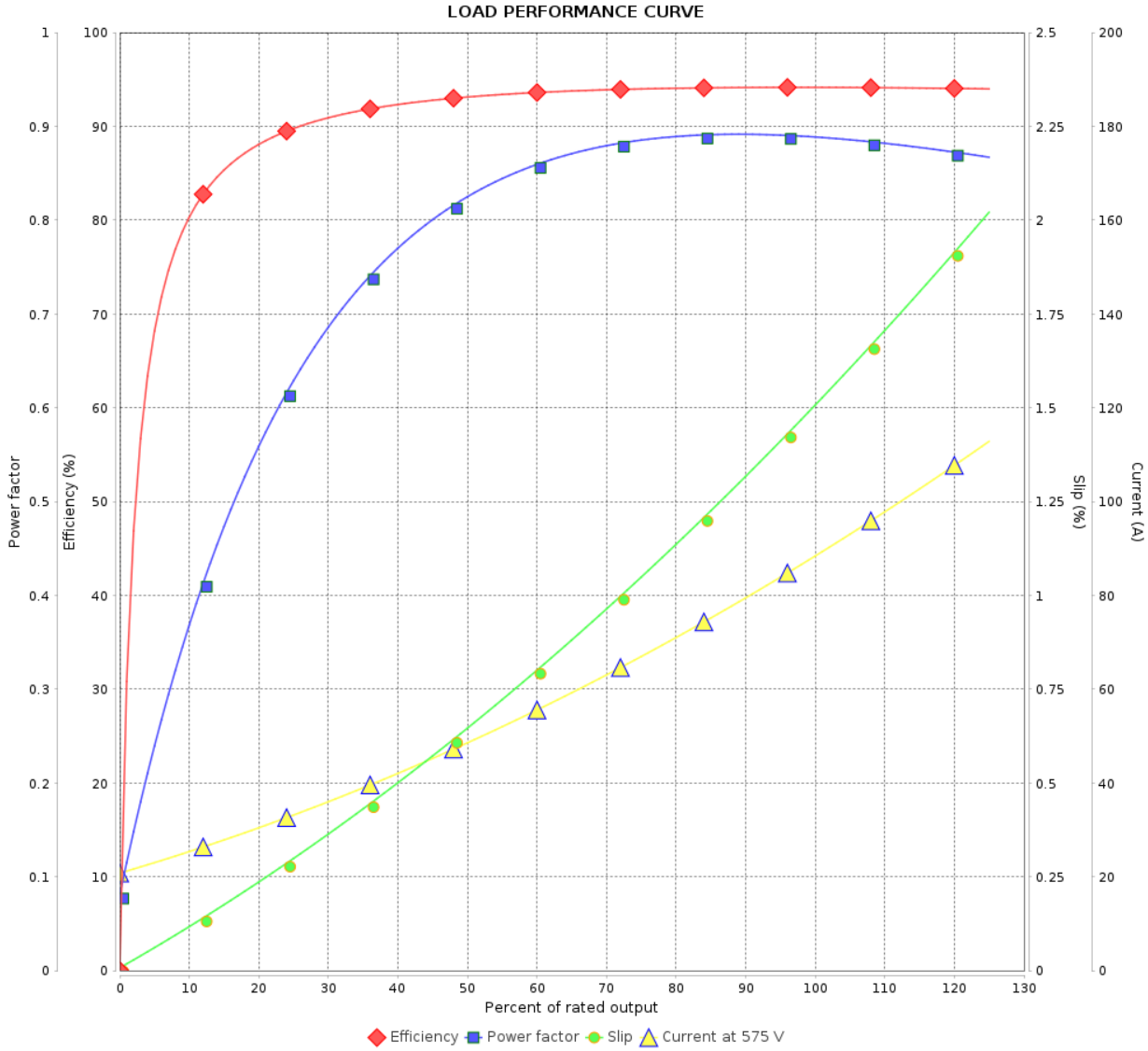
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 12001938



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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