

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase Product code : 14427898

Frame	: 444/5T	Locked rotor time	: 19s (cold) 11s (hot)
Output	: 150 HP (110 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	: 146 A	Protection degree	: IP23
L. R. Amperes	: 937 A	Cooling method	: IC01 - ODP
LRC	: 6.4x(Code G)	Mounting	: F-1
No load current	: 68.8 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1188 rpm	Noise level ²	: 69.0 dB(A)
Slip	: 1.00 %	Starting method	: Direct On Line
Rated torque	: 91.6 kgfm	Approx. weight ³	: 709 kg
Locked rotor torque	: 210 %		
Breakdown torque	: 260 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 3.33 kgm ²		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	94.5	95.0	95.4	Max. traction	: 1729 kgf
Power Factor	0.62	0.73	0.79	Max. compression	: 2438 kgf

	Drive end	Non drive end
Bearing type	: NU-319 C3	6314 C3
Sealing	: Without Bearing Seal	Without Bearing Seal
Lubrication interval	: 20000 h	20000 h
Lubricant amount	: 45 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.

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	15/01/2024		1 / 2	

LOAD PERFORMANCE CURVE

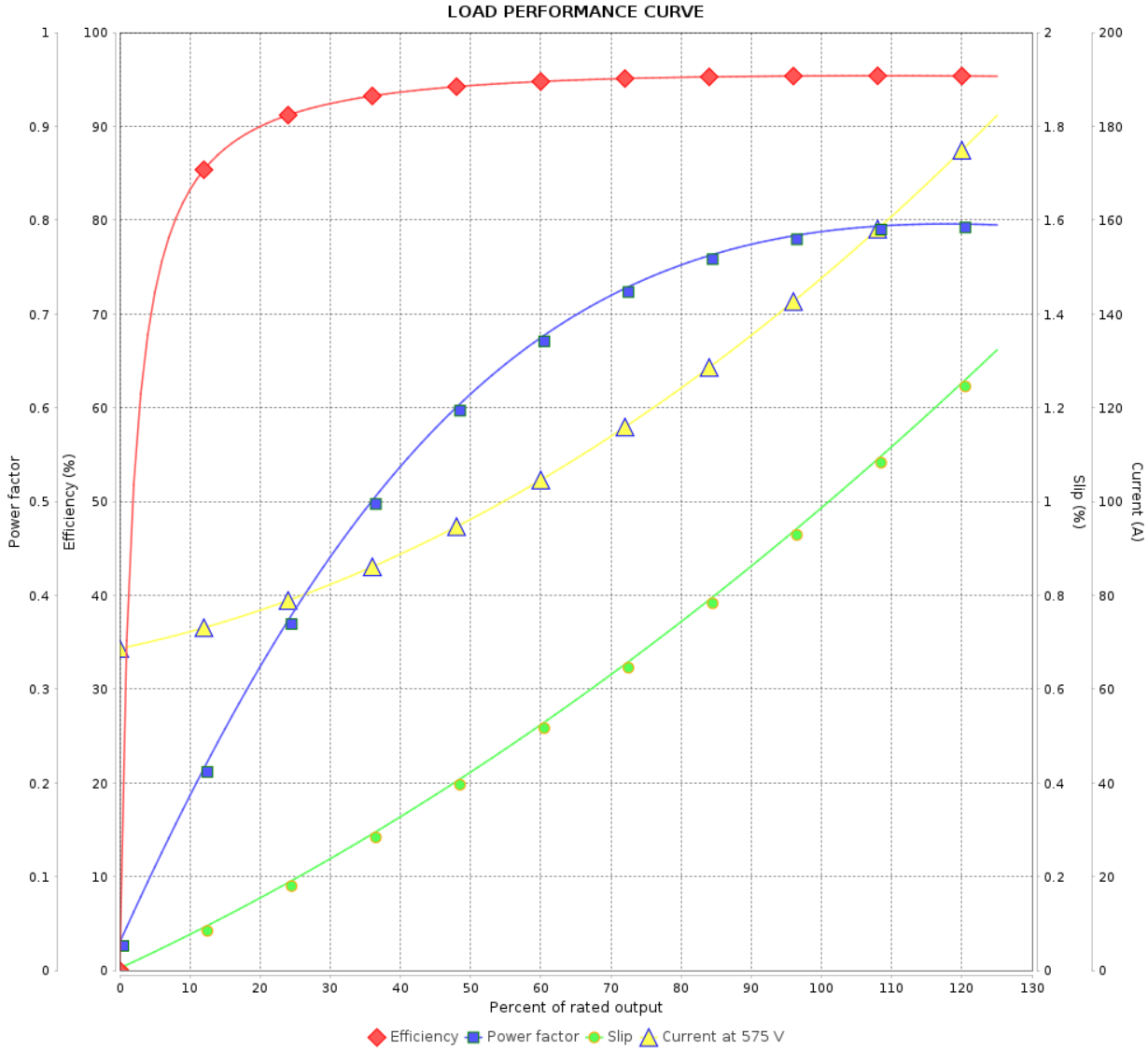
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14427898



Performance : 575 V 60 Hz 6P

Rated current : 146 A
 LRC : 6.4
 Rated torque : 91.6 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 260 %
 Rated speed : 1188 rpm

Moment of inertia (J) : 3.33 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	15/01/2024			