

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :				
Product line		: W22 IEEE 841 NEMA Premium Efficiency Three-Phase		Product code : 13693729
Frame	: 504/5TS		Locked rotor time	: 30s (cold) 17s (hot)
Output	: 156 HP (115 kW)		Temperature rise	: 80 K
Poles	: 2		Duty cycle	: Cont.(S1)
Frequency	: 60 Hz		Ambient temperature	: -20°C to +40°C
Rated voltage	: 460 V		Altitude	: 1000 m.a.s.l.
Rated current	: 173 A		Protection degree	: IP55
L. R. Amperes	: 1419 A		Cooling method	: IC411 - TEFC
LRC	: 8.2x(Code J)		Mounting	: F-1
No load current	: 41.0 A		Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 3580 rpm		Noise level <sup>2</sup>	: 81.0 dB(A)
Slip	: 0.56 %		Starting method	: Direct On Line
Rated torque	: 31.6 kgfm		Approx. weight <sup>3</sup>	: 1090 kg
Locked rotor torque	: 240 %			
Breakdown torque	: 305 %			
Insulation class	: F			
Service factor	: 1.15			
Moment of inertia (J)	: 1.88 kgm <sup>2</sup>			
Design	: B			
Output	25%	50%	75%	100%
Efficiency (%)	0.000	93.2	94.5	95.0
Power Factor	0.00	0.75	0.84	0.88
Foundation loads				
Max. traction : 214 kgf				
Max. compression : 1304 kgf				
		<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.	
Rev.	Changes Summary		Performed	Checked
Performed by				
Checked by				
Date	08/08/2023		Page	Revision
			1 / 2	

# LOAD PERFORMANCE CURVE

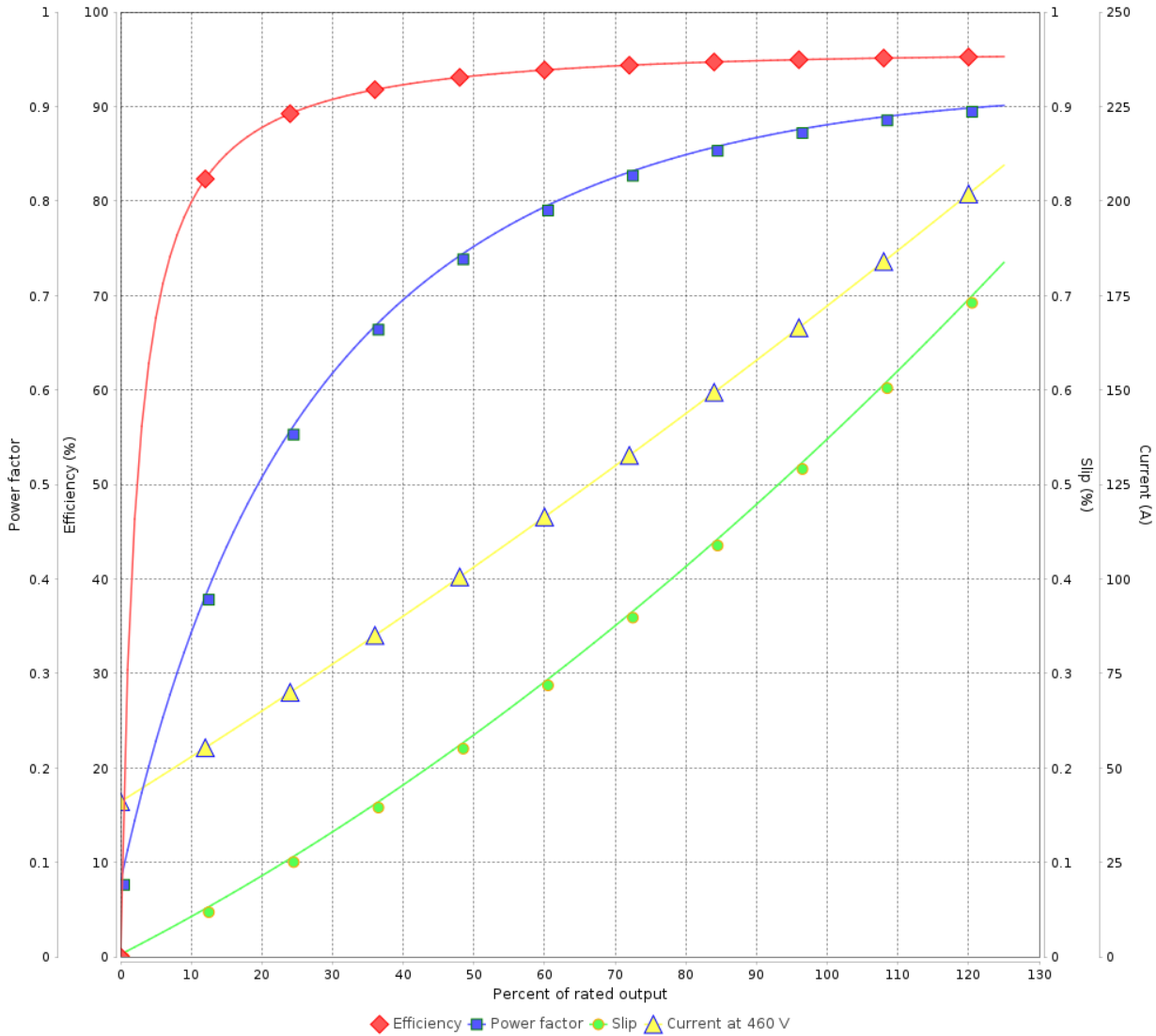
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase      Product code : 13693729

LOAD PERFORMANCE CURVE



Performance : 460 V 60 Hz 2P

Rated current	: 173 A	Moment of inertia (J)	: 1.88 kgm <sup>2</sup>
LRC	: 8.2	Duty cycle	: Cont.(S1)
Rated torque	: 31.6 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.15
Breakdown torque	: 305 %	Temperature rise	: 80 K
Rated speed	: 3580 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 2	Revision
Checked by				
Date	08/08/2023			