

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :		
Product line	: Premium Efficiency Three-Phase	
Product code :	14709259	
Frame	: 56C	
Insulation class	: F	
Duty cycle	: Cont.(S1)	
Ambient temperature	: -20°C to +40°C	
Altitude	: 1000 m.a.s.l.	
Protection degree	: IP55	
Cooling method	: IC411 - TEFC	
Mounting	: F-1	
Rotation ¹	: Both (CW and CCW)	
Starting method	: Direct On Line	
Approx. weight ³	: 12.1 kg	
Moment of inertia (J)	: 0.0045 kgm ²	
Output [HP]	0.5	
Poles	6	
Frequency [Hz]	60	
Rated voltage [V]	575	
Rated current [A]	0.781	
L. R. Amperes [A]	4.37	
LRC [A]	5.6x(Code K)	
No load current [A]	0.619	
Rated speed [RPM]	1160	
Slip [%]	3.33	
Rated torque [kgfm]	0.313	
Locked rotor torque [%]	240	
Breakdown torque [%]	330	
Service factor	1.15	
Temperature rise	80 K	
Locked rotor time	46s (cold) 26s (hot)	
Noise level ²	50.0 dB(A)	
Efficiency (%)	25%	
	50%	68.0
	75%	74.0
	100%	75.5
Power Factor	25%	
	50%	0.41
	75%	0.53
	100%	0.63
Bearing type	: <u>Drive end</u> 6203 ZZ <u>Non drive end</u> 6202 ZZ	
Sealing	: V'Ring Without Bearing Seal	
Lubrication interval	: - -	
Lubricant amount	: - -	
Lubricant type	: Mobil Polyrex EM	
Foundation loads	Max. traction : 27 kgf	
	Max. compression : 39 kgf	
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 by	Performed	
Checked by	Checked	
Date	17/05/2022	
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Revision		

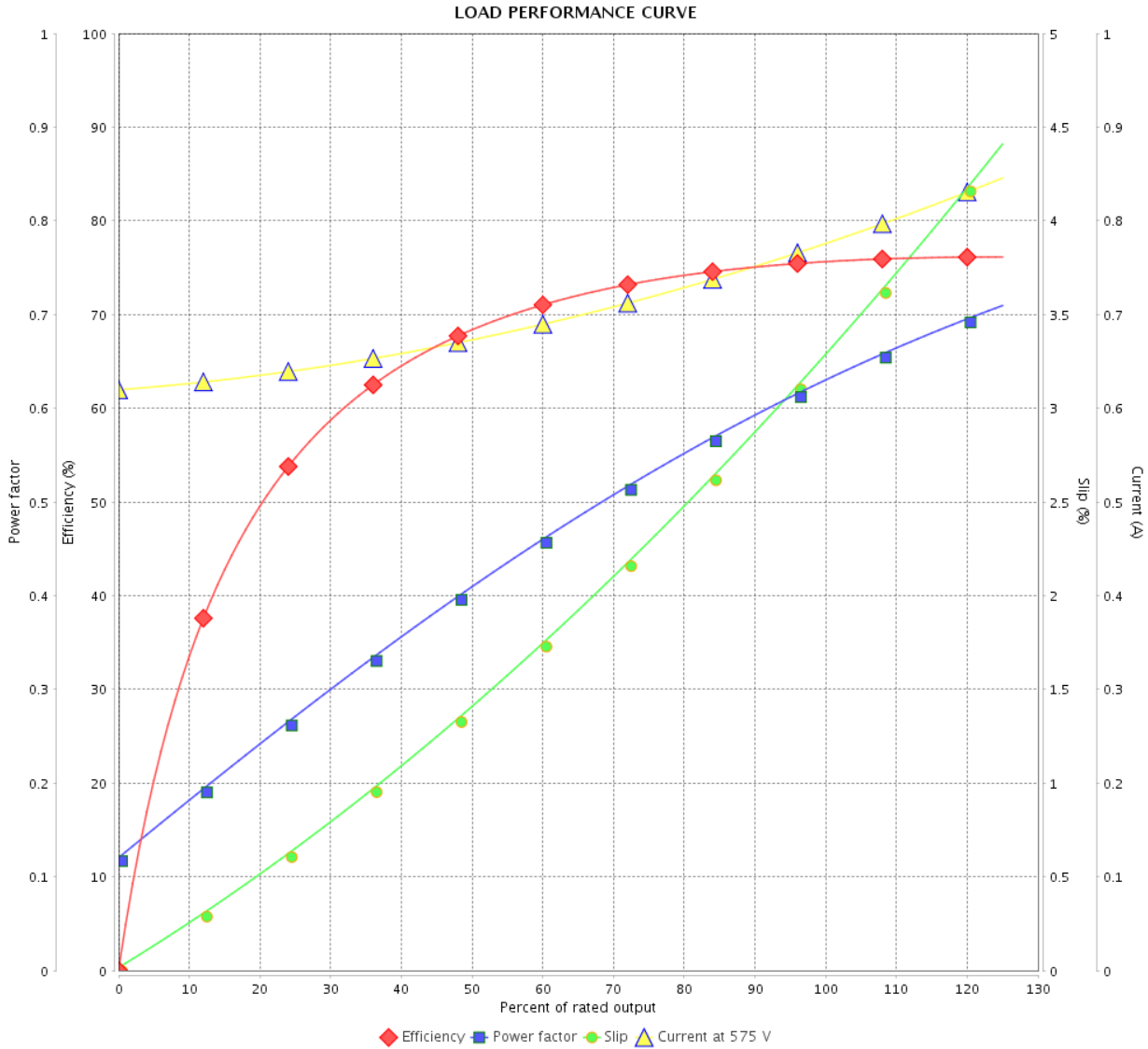
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : Premium Efficiency Three-Phase Product code : 14709259



Performance : 575 V 60 Hz 6P

Rated current : 0.781 A
 LRC : 5.6
 Rated torque : 0.313 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 330 %
 Rated speed : 1160 rpm

Moment of inertia (J) : 0.0045 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K

Rev.	Changes Summary	Performed	Checked	Date
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Checked by				
Date	17/05/2022			

