DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Poles Frequency [Hz] Rated voltage [V] Rated current [A] L. R. Amperes [A] No load current [A] Rated speed [RPM] Slip [%] Rated torque [kgfm] Locked rotor torque [%] Breakdown torque [%] Service factor Temperature rise Locked rotor time	: Premium Efficier : 56C : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : B	ncy Inree-Pr	Cooling method Mounting Rotation¹ Starting method Approx. weight³ Moment of inertia (J) 1 4 60 575 1.18 10.1 8.6x(Code M) 0.712 1765 1.94 0.411 280 300 1.15	13500348 : IC411 - TEFC : F-1 : Both (CW and CCW) : Direct On Line : 16.4 kg : 0.0052 kgm²				
Insulation class Duty cycle Ambient temperature Altitude Protection degree Design Output [HP] Poles Frequency [Hz] Rated voltage [V] Rated current [A] L. R. Amperes [A] LRC [A] No load current [A] Rated speed [RPM] Slip [%] Rated torque [kgfm] Locked rotor torque [%] Breakdown torque [%] Breakdown torque [%] Service factor Temperature rise Locked rotor time Noise level² Efficiency (%) 25% 100% 25%	: F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55		Mounting Rotation¹ Starting method Approx. weight³ Moment of inertia (J) 1 4 60 575 1.18 10.1 8.6x(Code M) 0.712 1765 1.94 0.411 280 300 1.15	: F-1 : Both (CW and CCW) : Direct On Line : 16.4 kg				
Duty cycle Ambient temperature Altitude Protection degree Design Output [HP] Poles Frequency [Hz] Rated voltage [V] Rated current [A] L. R. Amperes [A] LRC [A] No load current [A] Rated speed [RPM] Slip [%] Rated torque [kgfm] Locked rotor torque [%] Breakdown torque [%] Breakdown torque [%] Service factor Temperature rise Locked rotor time Noise level ² Efficiency (%) 25% 100% 25%	: Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55		Rotation¹ Starting method Approx. weight³ Moment of inertia (J) 1 4 60 575 1.18 10.1 8.6x(Code M) 0.712 1765 1.94 0.411 280 300 1.15	: Both (CW and CCW) : Direct On Line : 16.4 kg				
Ambient temperature Altitude Protection degree Design Output [HP] Poles Frequency [Hz] Rated voltage [V] Rated current [A] L. R. Amperes [A] LRC [A] No load current [A] Rated speed [RPM] Slip [%] Rated torque [kgfm] Locked rotor torque [%] Breakdown torque [%]	: -20°C to +40°C : 1000 m.a.s.l. : IP55		Starting method Approx. weight³ Moment of inertia (J) 1 4 60 575 1.18 10.1 8.6x(Code M) 0.712 1765 1.94 0.411 280 300 1.15	: Direct On Line : 16.4 kg				
Altitude Protection degree Design Output [HP] Poles Frequency [Hz] Rated voltage [V] Rated current [A] L. R. Amperes [A] No load current [A] Rated speed [RPM] Slip [%] Rated torque [kgfm] Locked rotor torque [%] Breakdown torque [%] Breakd	: 1000 m.a.s.l. : IP55		Approx. weight ³ Moment of inertia (J) 1 4 60 575 1.18 10.1 8.6x(Code M) 0.712 1765 1.94 0.411 280 300 1.15	: 16.4 kg				
Protection degree Design Dutput [HP] Poles Frequency [Hz] Rated voltage [V] Rated current [A] L. R. Amperes [A] LRC [A] No load current [A] Rated speed [RPM] Slip [%] Rated torque [kgfm] Locked rotor torque [%] Breakdown torque [%] Breakdown torque [%] Breakdown torque [%] Fervice factor Femperature rise Locked rotor time Noise level ² Efficiency (%) 25% 100% 25%	: IP55		Moment of inertia (J) 1 4 60 575 1.18 10.1 8.6x(Code M) 0.712 1765 1.94 0.411 280 300 1.15					
Design Dutput [HP] Poles Frequency [Hz] Rated voltage [V] Rated current [A] L. R. Amperes [A] LRC [A] No load current [A] Rated speed [RPM] Slip [%] Rated torque [kgfm] Locked rotor torque [%] Breakdown torque [%] Breakdown torque [%] Breakdown torque [%] Efficiency (%) Efficiency (%) 25%			1 4 60 575 1.18 10.1 8.6x(Code M) 0.712 1765 1.94 0.411 280 300 1.15	: 0.0052 kgm²				
Output [HP] Poles Frequency [Hz] Rated voltage [V] Rated current [A] L. R. Amperes [A] LNC [A] No load current [A] Rated speed [RPM] Slip [%] Rated torque [kgfm] Locked rotor torque [%] Breakdown torque [%] Breakdown torque [%] Breakdown torque [%] Fervice factor Femperature rise Locked rotor time Noise level² Efficiency (%) 25% 100% 25%	. B		4 60 575 1.18 10.1 8.6x(Code M) 0.712 1765 1.94 0.411 280 300 1.15					
Poles Frequency [Hz] Rated voltage [V] Rated current [A] L. R. Amperes [A] Rated speed [RPM] Rated speed [RPM] Rated torque [kgfm] Locked rotor torque [%] Reakdown torque [%] Reprice factor Remperature rise Locked rotor time Roise level ² Efficiency (%) 25% 100% 25%			4 60 575 1.18 10.1 8.6x(Code M) 0.712 1765 1.94 0.411 280 300 1.15					
Rated voltage [V] Rated current [A] L. R. Amperes [A] Rated speed [RPM] Rated speed [RPM] Rated speed [RPM] Rated torque [kgfm] Locked rotor torque [%] Reakdown torque [%] Reprice factor Remperature rise Locked rotor time Roise level ² Efficiency (%) 25% 100% 25%			60 575 1.18 10.1 8.6x(Code M) 0.712 1765 1.94 0.411 280 300 1.15					
Rated voltage [V] Rated current [A] L. R. Amperes [A] LRC [A] No load current [A] Rated speed [RPM] Slip [%] Rated torque [kgfm] Locked rotor torque [%] Breakdown torque [%] Breakdown torque [%] Fervice factor Temperature rise Locked rotor time Noise level ² Efficiency (%) 25% 100% 25%			575 1.18 10.1 8.6x(Code M) 0.712 1765 1.94 0.411 280 300 1.15					
Rated current [A]			1.18 10.1 8.6x(Code M) 0.712 1765 1.94 0.411 280 300 1.15					
R. Amperes [A]RC [A] No load current [A] Rated speed [RPM] Slip [%] Rated torque [kgfm]ocked rotor torque [%] Breakdown torque [%] Service factor Temperature riseocked rotor time Noise level² Efficiency (%) 25% 100% 25%			10.1 8.6x(Code M) 0.712 1765 1.94 0.411 280 300 1.15					
RC [A] No load current [A] Rated speed [RPM] Slip [%] Rated torque [kgfm] Locked rotor torque [%] Breakdown torque [%] Service factor Temperature rise Locked rotor time Noise level 25% 50% 75% 100% 25%			8.6x(Code M) 0.712 1765 1.94 0.411 280 300 1.15					
No load current [A]			0.712 1765 1.94 0.411 280 300 1.15					
Rated speed [RPM] Slip [%] Rated torque [kgfm] Locked rotor torque [%] Breakdown torque [%] Service factor Temperature rise Locked rotor time Noise level ² Efficiency (%) 25% 100% 25%			1765 1.94 0.411 280 300 1.15					
Slip [%] Rated torque [kgfm] Locked rotor torque [%] Breakdown torque [%] Service factor Temperature rise Locked rotor time Noise level 25% 50% 75% 100% 25%			1.94 0.411 280 300 1.15					
Rated torque [kgfm] Locked rotor torque [%] Breakdown torque [%] Service factor Temperature rise Locked rotor time Noise level² Efficiency (%) 25% 100% 25%			0.411 280 300 1.15					
Locked rotor torque [%] Breakdown torque [%] Service factor Temperature rise Locked rotor time Noise level² 25% Efficiency (%) 75% 100% 25%			280 300 1.15					
Breakdown torque [%] Service factor Temperature rise Locked rotor time Noise level 25% 50% 75% 100% 25%			300 1.15					
Service factor Temperature rise Locked rotor time Noise level 25% 50% 75% 100% 25%			1.15					
Temperature rise								
Locked rotor time Noise level² Efficiency (%) 25% 50% 75% 100% 25%			80 K					
Noise level ² Efficiency (%) 25% 50% 75% 100% 25%		34s (cold) 19s (hot)						
Efficiency (%) 50% 75% 100% 25%	52.0 dB(A)							
Efficiency (%) 50% 75% 100% 25%		81.0						
75% 100% 25%		82.5						
25%	84.0							
	85.5							
50%	0.30							
	0.52							
75%	0.66							
100%		0.75						
	Drive end No	on drive end	Foundation loads					
Bearing type	: 6204 ZZ	6202 ZZ	Max. traction	: 31 kgf				
Sealing	: V'Ring	Without	Max. compression	: 48 kgf				
-		Bearing Seal		-				
Lubrication interval	: -	-						
Lubricant amount	-	:						
Lubricant type	: Mobil Polyi	rex EM						

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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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	17/05/2022	1		1/2	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



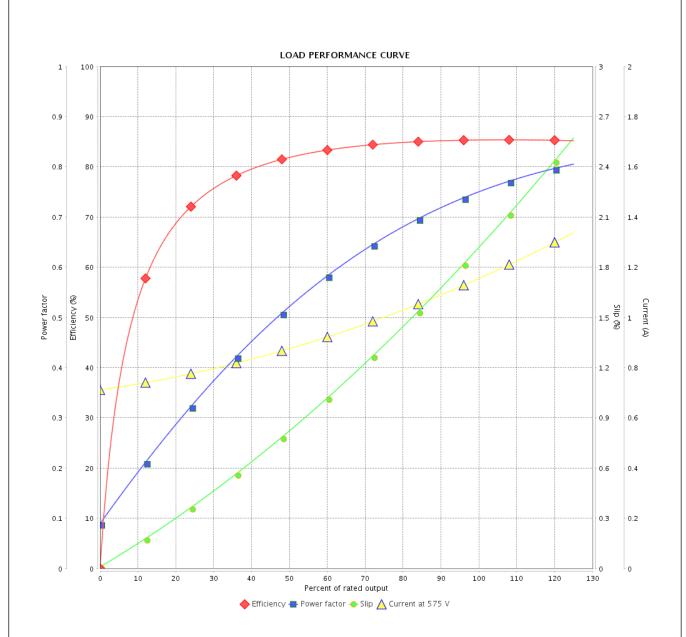
Customer :

Checked by

Date

17/05/2022

Product line : Premium Efficiency Three-Phase Product code : 13500348



Performance	rmance : 575 V 60 Hz 4P					
Rated current : 1.18 A LRC : 8.6 Rated torque : 0.411 kgfm Locked rotor torque : 280 % Breakdown torque : 300 % Rated speed : 1765 rpm		: 8.6 : 0.411 kgfm : 280 % : 300 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0052 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						

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Revision

