DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree 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 [%] Service factor Temperature rise Locked rotor time Noise level² Efficiency (%) Power Factor Fower Factor Frame Frame 25% 50% 50% 75% 50% 50% 50% 50% 50% 50% 50% 75% 50% 75% 50% 50% 75% 50% 75% 50% 75% 50% 75% 50% 75% 50% 75% 50% 75% 75% 50% 75% 50% 75% 75% 50% 75% 7	: Premium Efficiency Three-P : W56C : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55	Cooling method Mounting Rotation¹ Starting method Approx. weight³ Moment of inertia (J) 0.75 2 60 575 0.896 7.26 8.1x(Code L) 0.498 3440 4.44	14451786 : IC411 - TEFC : F-1 : Both (CW and CCW) : Direct On Line : 8.9 kg : 0.0009 kgm²					
Insulation class Duty cycle Ambient temperature Altitude Protection degree 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% 50% 75% 100% 25% 50%	: F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l.	Mounting Rotation¹ Starting method Approx. weight³ Moment of inertia (J) 0.75 2 60 575 0.896 7.26 8.1x(Code L) 0.498 3440 4.44	: F-1 : Both (CW and CCW) : Direct On Line : 8.9 kg					
Duty cycle Ambient temperature Altitude Protection degree 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 [%] Service factor Temperature rise Locked rotor time Noise level² Efficiency (%) Power Fester Altitude 25% 50% 50% 50%	: Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l.	Mounting Rotation¹ Starting method Approx. weight³ Moment of inertia (J) 0.75 2 60 575 0.896 7.26 8.1x(Code L) 0.498 3440 4.44	: Both (CW and CCW) : Direct On Line : 8.9 kg					
Duty cycle Ambient temperature Altitude Protection degree 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 [%] Service factor Temperature rise Locked rotor time Noise level² Efficiency (%) Power Factor Robert 100% 25% 50%	: Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l.	Rotation¹ Starting method Approx. weight³ Moment of inertia (J) 0.75 2 60 575 0.896 7.26 8.1x(Code L) 0.498 3440 4.44	: Direct On Line : 8.9 kg					
Ambient temperature Altitude Protection degree Output [HP] Poles Frequency [Hz] Rated voltage [V] Rated current [A] L. R. Amperes [A] L.RC [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% 50% 75% 100% 25% 50%	: -20°C to +40°C : 1000 m.a.s.l.	Starting method Approx. weight³ Moment of inertia (J) 0.75 2 60 575 0.896 7.26 8.1x(Code L) 0.498 3440 4.44	: Direct On Line : 8.9 kg					
Altitude Protection degree 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% 50% 75% 100% 25% 50%	: 1000 m.a.s.l.	Approx. weight ³ Moment of inertia (J) 0.75 2 60 575 0.896 7.26 8.1x(Code L) 0.498 3440 4.44	: 8.9 kg					
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 [%] Service factor Temperature rise Locked rotor time Noise level² Efficiency (%) 25% 50% 75% 100% 25% 50%	: IP55	0.75 2 60 575 0.896 7.26 8.1x(Code L) 0.498 3440 4.44						
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Rated voltage [V] Rated voltage [V] Rated current [A] L. R. Amperes [A] L. R. Amperes [A] Rated speed [RPM] Rated speed [RPM] Rated torque [kgfm] Locked rotor torque [%] Revision factor Remperature rise Locked rotor time Rated torque [V] Rated factor Remperature rise Locked rotor time Rated factor Remperature rise Locked rotor time Rated factor Remperature rise Locked rotor time Rated factor Rated factor Locked rotor time Rated factor Rated factor Locked rotor time Rated factor Locked rotor time Loc		60 575 0.896 7.26 8.1x(Code L) 0.498 3440 4.44						
Rated voltage [V] Rated current [A] L. R. Amperes [A] L. R. C [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 level2 25% 50% 75% 100% 25% 50% 100% 1		575 0.896 7.26 8.1x(Code L) 0.498 3440 4.44						
Rated voltage [V] Rated current [A] L. R. Amperes [A] L. R. C [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 level2 25% 50% 75% 100% 25% 50% 100% 1		0.896 7.26 8.1x(Code L) 0.498 3440 4.44						
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 [%] Service factor Temperature rise Locked rotor time Noise level ² Efficiency (%) 25% 75% 100% 25% 50%		0.896 7.26 8.1x(Code L) 0.498 3440 4.44						
L. R. Amperes [A] LRC [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 ² Efficiency (%) 25% 100% 25% 50%		7.26 8.1x(Code L) 0.498 3440 4.44						
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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 ² Efficiency (%) Towar Factor Company Factor Compa		0.498 3440 4.44						
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% 50%		3440 4.44						
Slip [%] Rated torque [kgfm] Locked rotor torque [%] Breakdown torque [%] Service factor Temperature rise Locked rotor time Noise level 25% 50% 75% 100% 25% 50% 5		4.44						
Rated torque [kgfm]								
Locked rotor torque [%] Breakdown torque [%] Breakdown torque [%] Service factor Temperature rise Locked rotor time Noise level ² Efficiency (%) 25% 75% 100% 25% 50% 50% 50% 50% 50% 50% 50% 50% 50% 50% 100%		0.158						
Breakdown torque [%] Service factor Temperature rise Locked rotor time Noise level 25% 50% 75% 100% 25% 50%		350						
Service factor	360							
Locked rotor time	1.15							
Locked rotor time	80 K							
Noise level ² Efficiency (%) Efficiency (%) 75% 100% 25% 50%	28s (cold) 16s (hot)							
Efficiency (%) 50% 75% 100% 25% 50%	65.0 dB(A)							
Efficiency (%) 50% 75% 100% 25% 50%		· · · · · · · · · · · · · · · · · · ·						
75% 100% 25% 50%	70.0							
100% 25% 50%	75.5							
25% 50%		77.0						
Dower Factor 50%		-						
1 3 7 3		0.62 0.74						
100%		0.80						
1 2070	Drive end Non drive end							
Bearing type	: 6203 ZZ 6202 ZZ		: 12 kaf					
Sealing type	: V'Ring Without	Max. traction Max. compression	: 13 kgf : 22 kgf					
o c alling	Bearing Sea		: 22 kgf					
Lubrication interval	:							
Lubricant amount	:							
Lubricant type	: Mobil Polyrex EM	Mobil Polyrex EM						
Notes	,	1						

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	

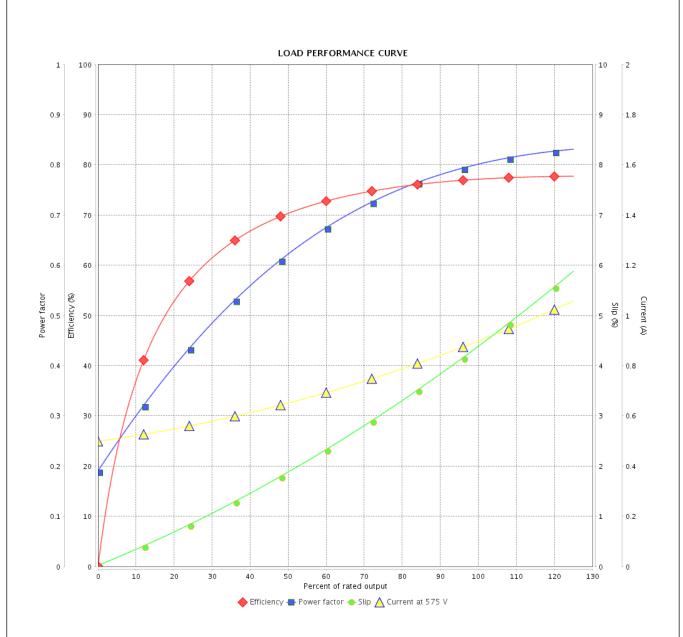
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 14451786



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Performance	: 575	5 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	jue : 350 ie : 360	58 kgfm) %	Moment of Duty cycle Insulation Service fa Temperat	class actor	: 0.0009 kgm : Cont.(S1) : F : 1.15 : 80 K	2
Rev.	C	Changes Summary		Performed	Checked	Date

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

