#### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 15440600 : 254/6TC Cooling method Frame : IC411 - TEFC Insulation class Mounting : F-1 Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line Approx. weight<sup>3</sup> : 129 kg Altitude : 1000 m.a.s.l. Protection degree : IP55 Moment of inertia (J) : 0.0530 kgm<sup>2</sup> Design : B Output [HP] 10 15 10 10 15 15 15 Poles 2 2 2 2 2 2 2 50 50 50 Frequency [Hz] 60 50 50 50 Rated voltage [V] 380 400 460 380 400 415 415 20.7 Rated current [A] 17.2 14.5 14.0 13.7 19.6 19.1 L. R. Amperes [A] 115 98.6 105 108 101 108 113 LRC [A] 6.7x(Code | 6.8x(Code H) | 7.5x(Code J) | 7.9x(Code J) | 4.9x(Code D) | 5.5x(Code E) | 5.9x(Code F) G) No load current [A] 5.30 5.10 5.40 5.70 5.10 5.40 5.70 Rated speed [RPM] 3530 2945 2950 2955 2910 2920 2925 Slip [%] 1.94 1.83 1.67 1.50 3.00 2.67 2.50 Rated torque [kgfm] 3.08 2.46 2.46 2.46 3.74 3.73 3.72 Locked rotor torque [%] 220 200 229 250 170 190 210 Breakdown torque [%] 270 310 350 380 200 229 240 Service factor 1.25 1.25 1.25 1.25 1.00 1.00 1.15 Temperature rise 80 K 36s (cold) 36s (cold) Locked rotor time 45s (cold) 55s (cold) 50s (cold) 46s (cold) 36s (cold) 25s (hot) 31s (hot) 28s (hot) 26s (hot) 20s (hot) 20s (hot) 20s (hot) Noise level<sup>2</sup> 72.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 25% 50% 89.5 90.3 90.1 89.9 89.5 90.2 90.2 Efficiency (%) 75% 91.0 90.5 90.7 90.8 90.2 90.2 91.0 100% 91.0 90.5 90.7 90.8 89.5 90.2 90.2 25% 50% 0.77 0.73 0.69 0.67 0.83 0.81 0.79 Power Factor 75% 0.85 0.83 0.80 0.78 0.88 0.87 0.86 100% 0.88 0.87 0.85 0.84 0.90 0.90 0.89 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 9.4 9.4 9.4 9.4 9.4 9.4 9.4 P2 (0,5;1,0) 7.5 7.5 7.5 7.5 7.5 7.5 7.5 P3 (0,25;1,0) 6.8 6.8 6.8 6.8 6.8 6.8 6.8 P4 (0,9;0,5) 4.8 4.8 4.8 4.8 4.8 4.8 4.8 Losses (%) P5 (0,5;0,5) 2.8 2.8 2.8 2.8 2.8 2.8 2.8 P6 (0,5;0,25) 1.8 1.8 1.8 1.8 1.8 1.8 1.8 P7 1.1 1.1 1.1 1.1 1.1 1.1 1.1 (0,25;0,25)Drive end Non drive end Foundation loads Bearing type 6309 C3 6209 C3 : 76 kgf Max. traction Inpro/Seal Inpro/Seal : 204 kgf Sealing Max. compression Lubrication interval 19000 h 20000 h 9 g Lubricant amount 13 q Mobil Polyrex EM Lubricant type This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA must be eliminated. (1) Looking the motor from the shaft end. MG-1. Performed Checked Rev. **Changes Summary** Date Performed by Checked by Page Revision

1/9

16/01/2024

Date

# DATA SHEET

#### Three Phase Induction Motor - Squirrel Cage



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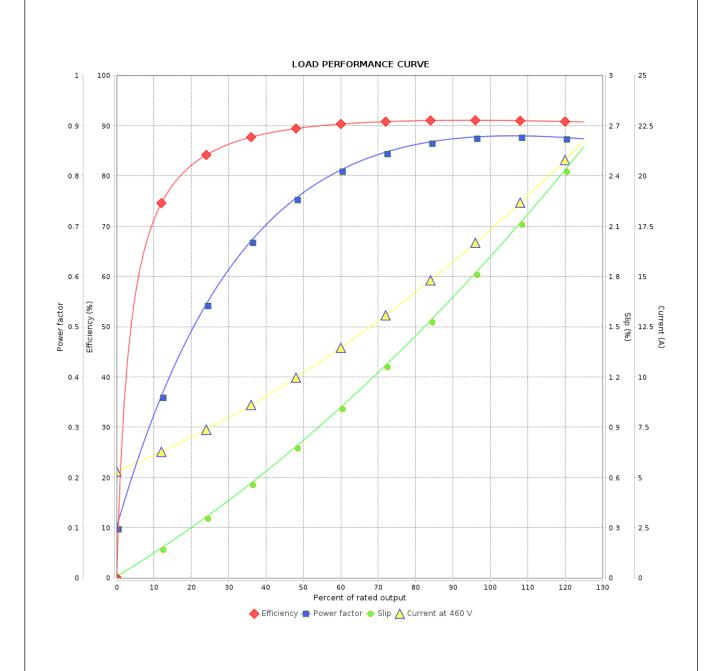
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 15440600

Three-Phase



Performance	: 460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 17.2 A : 6.7 : 3.08 kgfm : 220 % : 270 % : 3530 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ictor	: 0.0530 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	2
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Rev.		Changes Summary	Performed	Checked	Date
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Checked by				Page	Revision
Date	16/01/2024			3/9	

#### Three Phase Induction Motor - Squirrel Cage

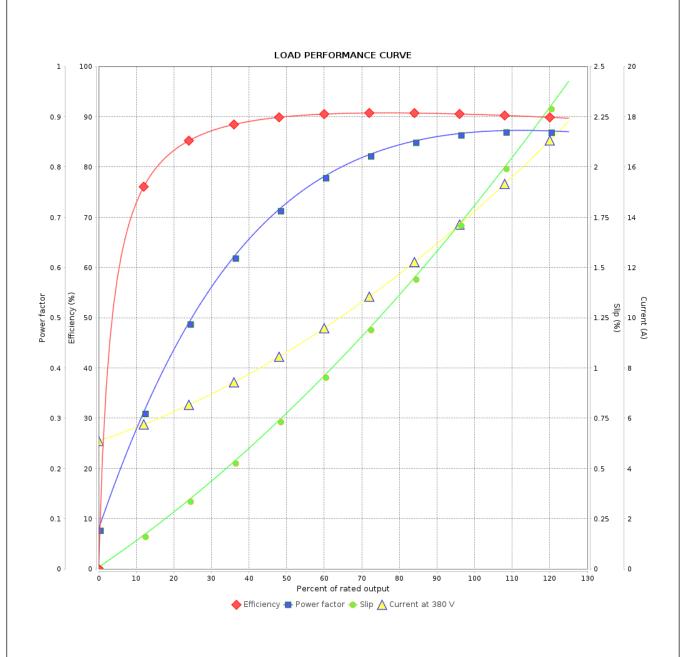


Customer

Product line : W22 IEEE 841 NEMA Premium Efficiency

Product code:

15440600



Performance	: 3	80 V 50 Hz 2P IE3				
Rated current	Rated current : 14.5 A		Moment of	Moment of inertia (J)		2
LRC	: 6	5.8	Duty cycle		: Cont.(S1)	
Rated torque	: 2	.46 kgfm	Insulation	class	: F	
Locked rotor torc	μue : 2	00 %	Service fa	actor	: 1.25	
Breakdown torqu	ie : 3	: 310 % Temperature rise		: 80 K		
Rated speed	: 2	945 rpm	Design		: B	
Rev.		Changes Summar	у	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	16/01/2024				4/9	

#### Three Phase Induction Motor - Squirrel Cage



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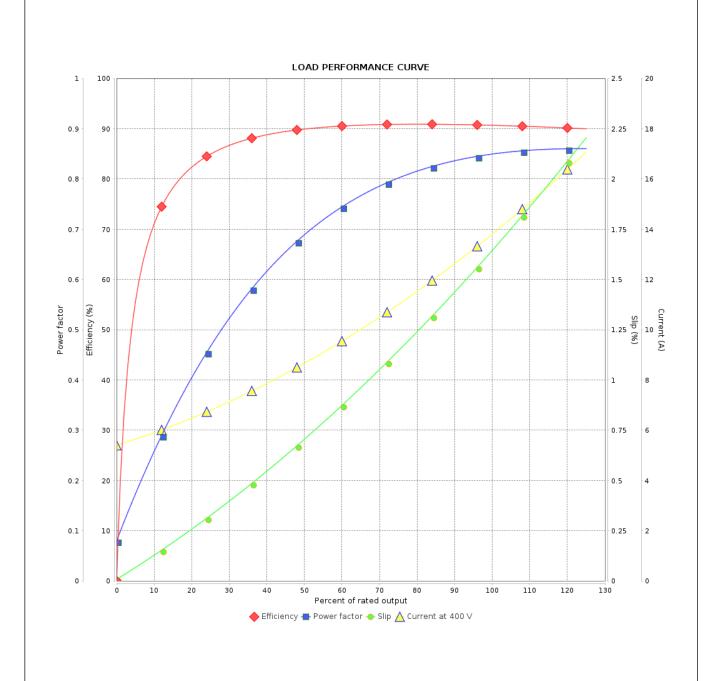
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Date

16/01/2024

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 15440600

Three-Phase



Performance	: 400 V 50 Hz 2P IE3					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14.0 A Moment of inertial : 7.5 Duty cycle : 2.46 kgfm Insulation class : 229 % Service factor : 350 % Temperature rise : 2950 rpm Design		e class class	: 0.0530 kgm² : Cont.(S1) : F : 1.25 : 80 K : B		
Rev.	Changes Summary		Performed	Checked	Date	
Performed by						

Page

5/9

Revision

#### Three Phase Induction Motor - Squirrel Cage

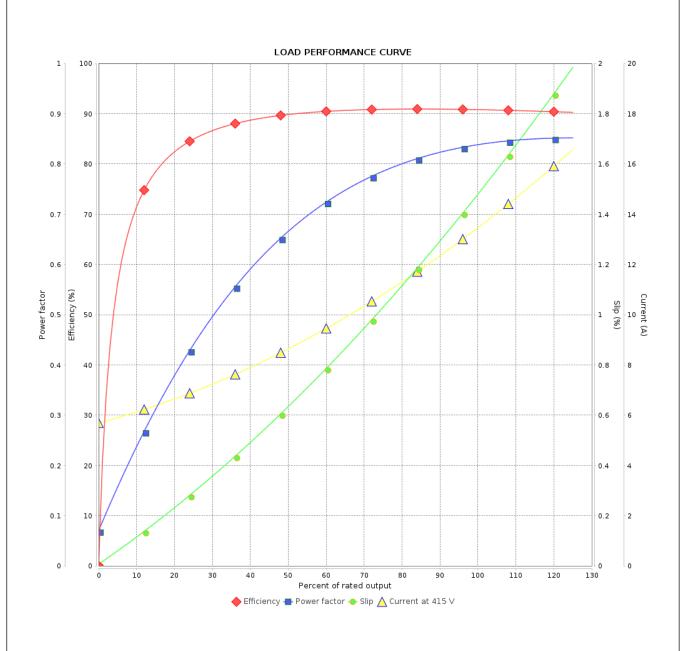


Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code: 15440600



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Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 13.7 A : 7.9 : 2.46 kgfm : 250 % : 380 % : 2955 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0530 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	: F : 1.25 : 80 K	
Rev.	Changes Summary	Performe	d Checked	Date	
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Checked by			Page	Revision	

6/9

16/01/2024

Date

#### Three Phase Induction Motor - Squirrel Cage



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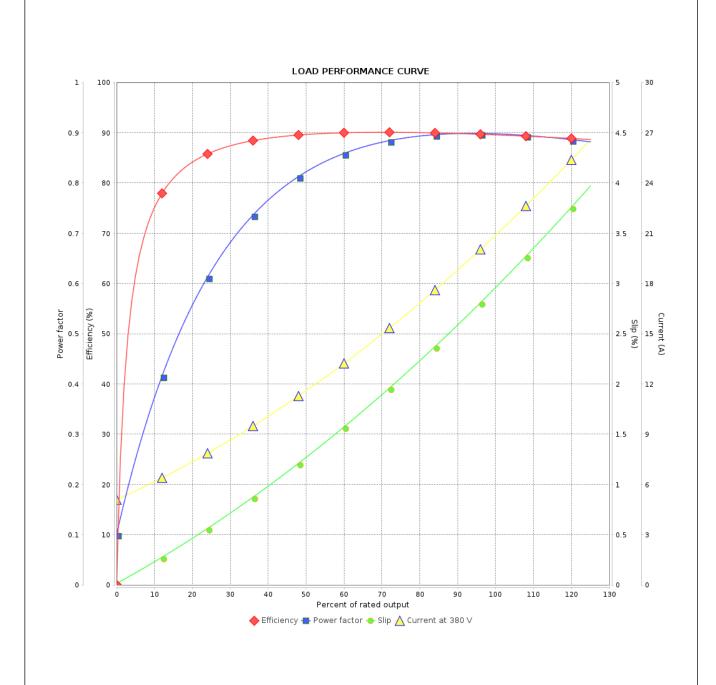
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Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 15440600

Three-Phase



Performance	: 380 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed		4.9 Duty cycle 3.74 kgfm Insulation class 170 % Service factor 200 % Temperature rise		: 0.0530 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Rev. Changes Summary		Performed	Checked	Date
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Page

7/9

Revision

#### Three Phase Induction Motor - Squirrel Cage

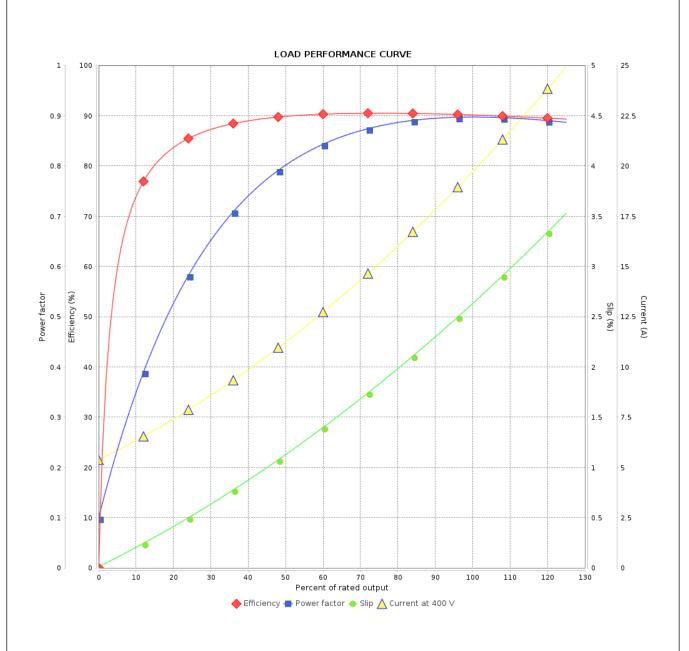


Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code: 15440600



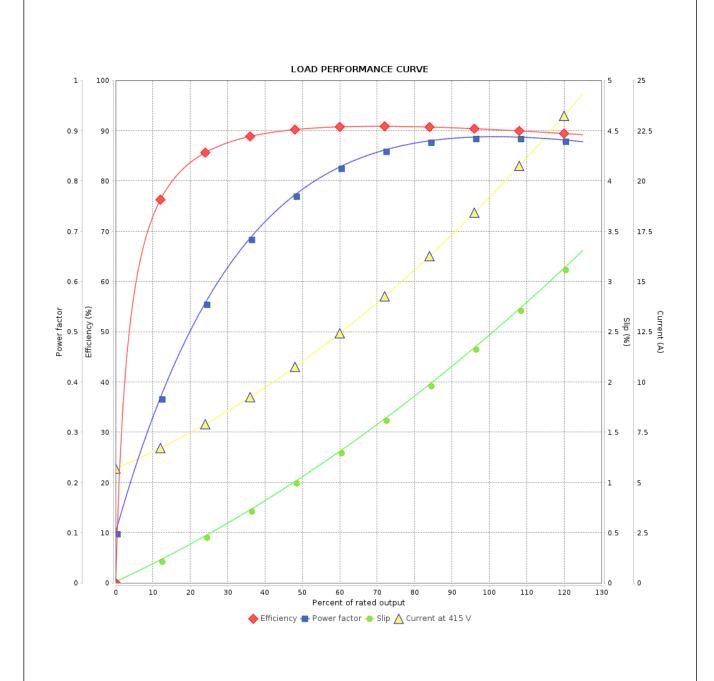
Performance	rmance : 400 V 50 Hz 2P IE2					
Rated current : 19.6 A		Moment of	Moment of inertia (J)		2	
LRC	: 5	: 5.5 Duty cycle		9	: Cont.(S1)	
Rated torque	: 3	.73 kgfm	Insulation	class	: F	
Locked rotor torq	jue : 1	90 %	Service fa	ictor	: 1.00	
Breakdown torque : 229 %		29 %	Temperature rise		: 80 K	
Rated speed	: 2	920 rpm	Design		: B	
Rev.		Changes Summa	ry	Performed	Checked	Date
Performed by						
Checked by		1			Page	Revision
Date	16/01/2024				8/9	

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 15440600



Performance	: 4	15 V 50 Hz 2P IE2				
Rated current	Rated current : 19.1 A		Moment o	Moment of inertia (J)		2
LRC	: 5	.9	Duty cycle		: Cont.(S1)	
Rated torque	: 3	.72 kgfm	Insulation	class	: F	
Locked rotor torqu	ie : 2	10 %	Service fa	ctor	: 1.15	
Breakdown torque : 240		40 %	Temperati	Temperature rise		
Rated speed	: 2	925 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
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Date	16/01/2024	1			9/9	