DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 11438076 Three-Phase : 324/6T Cooling method Frame : IC411 - TEFC Insulation class Mounting : F : F-1 Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line Approx. weight³ : 269 kg Altitude : 1000 m.a.s.l. Protection degree : IP55 Moment of inertia (J) : 0.3861 kgm² Design : B Output [HP] 50 40 40 50 40 50 50 Poles 4 4 4 4 4 4 4 60 50 50 50 Frequency [Hz] 50 50 50 Rated voltage [V] 380 230/460 380 400 415 400 415 Rated current [A] 71.6 118/59.2 58.7 57.1 56.4 68.4 66.3 L. R. Amperes [A] 734/367 376 400 417 372 397 411 LRC [A] 6.2x(Code 6.4x(Code | 7.0x(Code H) | 7.4x(Code J) | 5.2x(Code E) | 5.8x(Code F) | 6.2x(Code G) G) G) No load current [A] 47.0/23.5 23.0 24.0 25.0 23.0 24.0 25.0 Rated speed [RPM] 1775 1475 1477 1478 1460 1465 1470 Slip [%] 1.39 1.67 1.53 1.47 2.67 2.33 2.00 Rated torque [kgfm] 20.4 19.7 19.7 19.6 24.9 24.8 24.7 Locked rotor torque [%] 229 229 250 260 180 200 210 Breakdown torque [%] 270 260 300 330 200 240 260 Service factor 1.25 1.00 1.00 1.00 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K 105 K 105 K 105 K 19s (cold) 19s (cold) Locked rotor time 27s (cold) 19s (cold) 19s (cold) 19s (cold) 19s (cold) 15s (hot) 11s (hot) 11s (hot) 11s (hot) 11s (hot) 11s (hot) 11s (hot) Noise level² 70.0 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% 0.000 50% 93.0 92.5 91.5 91.5 93.0 92.4 92.4 Efficiency (%) 75% 94.1 93.1 92.8 93.0 93.0 93.0 93.0 100% 94.5 93.6 93.6 93.6 92.4 93.0 93.5 25% 0.00 50% 0.64 0.60 0.57 0.72 0.68 0.65 0.66 Power Factor 75% 0.77 0.77 0.73 0.70 0.81 0.79 0.76 100% 0.83 0.83 0.81 0.79 0.85 0.84 0.83 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 5.7 5.7 5.7 5.7 5.7 5.7 5.7 P2 (0,5;1,0) 4.9 4.9 4.9 4.9 4.9 4.9 4.9 P3 (0,25;1,0) 4.7 4.7 4.7 4.7 4.7 4.7 4.7 P4 (0,9;0,5) 2.7 2.7 2.7 2.7 2.7 2.7 2.7 Losses (%) P5 (0,5;0,5) 1.9 1.9 1.9 1.9 1.9 1.9 1.9 P6 (0,5;0,25) 1.2 1.2 1.2 1.2 1.2 1.2 1.2 P7 0.9 0.9 0.9 0.9 0.9 0.9 0.9 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6312 C3 6212 C3 : 673 kgf Max. traction Sealing V'Ring V'Ring : 943 kgf Max. compression Lubrication interval 20000 h 20000 h 13 g Lubricant amount 21 g 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 21/10/2024 1/9 Date

DATA SHEET

Checked by

Date

21/10/2024



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Customer	:				
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Rev.		Changes Summary	Performed	Checked	Date
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Page

2/9

Three Phase Induction Motor - Squirrel Cage



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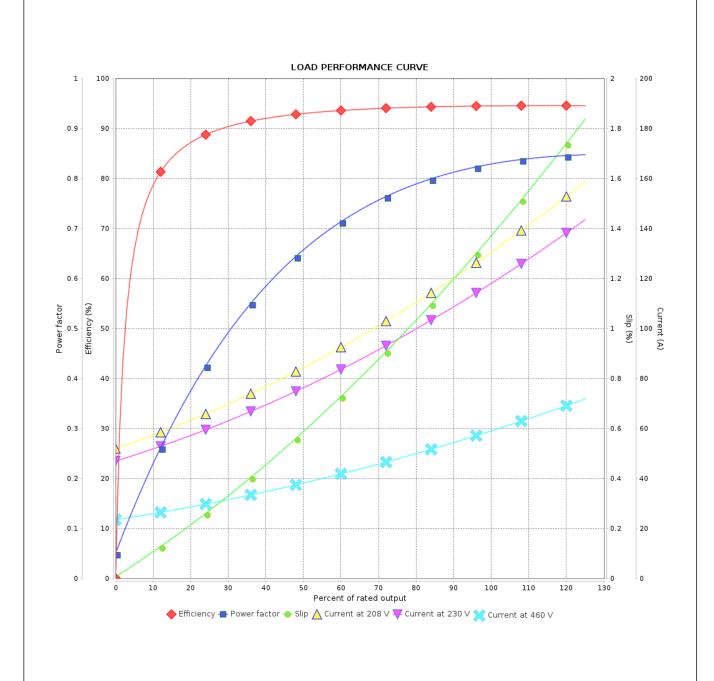
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Date

21/10/2024

Product line : W22 NEMA Premium Efficiency Product code : 11438076

Three-Phase



Performance	: 230/460 V 60 Hz 4P				
Rated current : 118/59.2 A		Moment of inertia (J)		: 0.3861 kgm²	
LRC	: 6.2	Duty cycle)	: Cont.(S1)	
Rated torque	: 20.4 kgfm	Insulation class		: F	
Locked rotor torque	: 229 %	Service factor		: 1.25	
Breakdown torque	: 270 %	Temperature rise		: 80 K	
Rated speed	: 1775 rpm	Design		: B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by				· · · · · · · · · · · · · · · · · · ·	

Page

3/9

Three Phase Induction Motor - Squirrel Cage

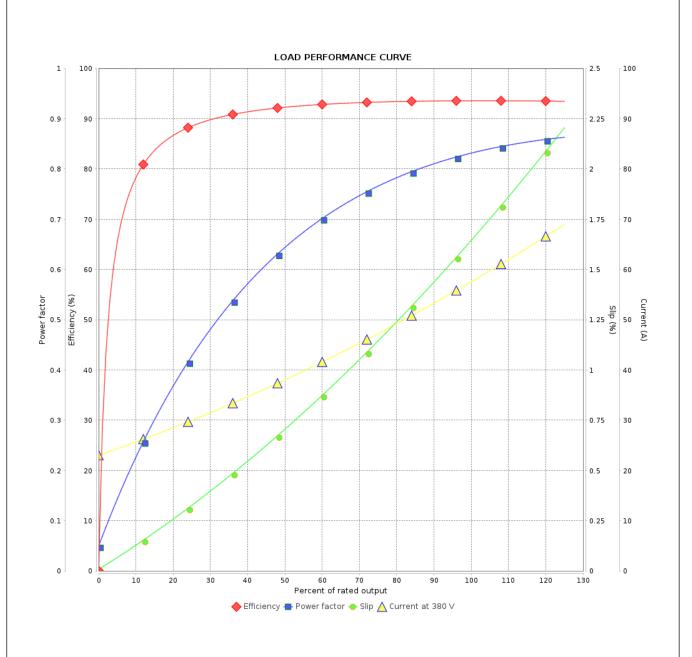


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11438076



Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 58.7 A : 6.4 : 19.7 kgfm : 229 % : 260 % : 1475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.3861 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary	Perform	med	Checked	Date
Performed by					
Checked by				Page	Revision

4/9

21/10/2024

Date

Three Phase Induction Motor - Squirrel Cage



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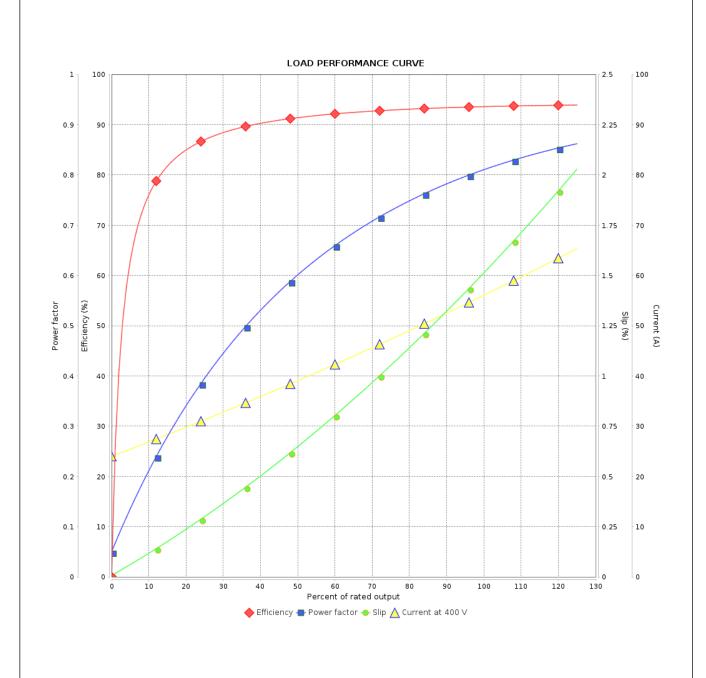
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Date

21/10/2024

Product line : W22 NEMA Premium Efficiency Product code : 11438076

Three-Phase



Performance	: 400 V 50 Hz 4P	IE3			
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	e : 300 %	Duty cycle Insulation Service fa Temperatu	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		2
'	: 1477 rpm	Design	Dowformed	: B	Data
Rev.	Changes Sum	mary	Performed	Checked	Date
Performed by					

Page

5/9

Three Phase Induction Motor - Squirrel Cage



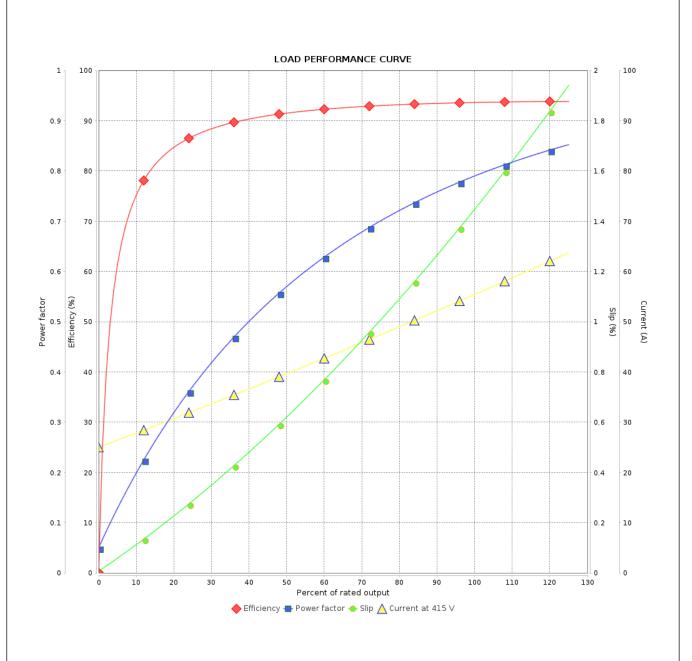
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code :

11438076



Performance	: 4	15 V 50 Hz 4P IE3				
Rated current : 56.4 A		Moment of	Moment of inertia (J)		2	
LRC	: 7.4		Duty cycle	e	: Cont.(S1)	
Rated torque	: 19	9.6 kgfm	Insulation	class	: F	
Locked rotor torqu	ue : 20	60 %	Service fa	ctor	: 1.00	
Breakdown torque : 33		30 %	Temperat	Temperature rise		
Rated speed : 1478 rpm		Design		: B		
Rev.		Changes Summary	/	Performed	Checked	Date
Performed by						
Checked by		1			Page	Revision
Date	21/10/2024	1			6/9	

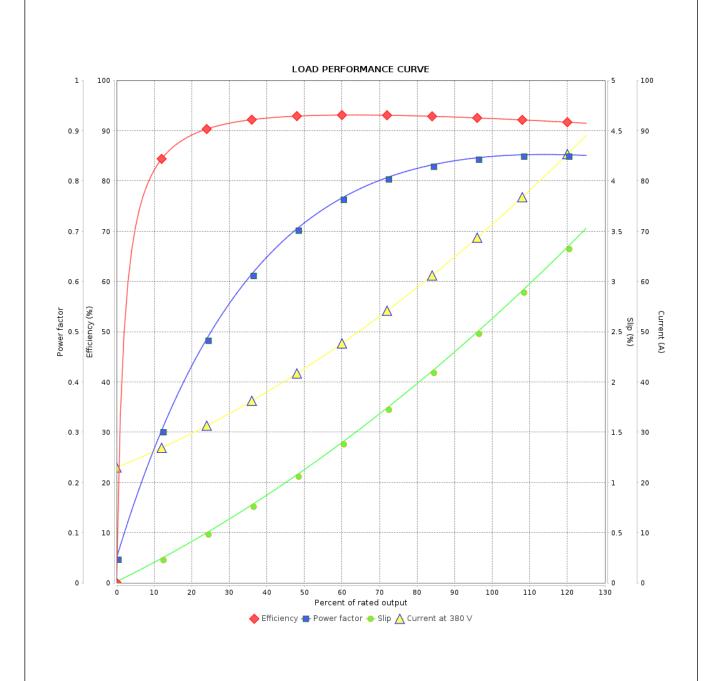
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11438076

Three-Phase



: 380 V 50 Hz 4P IE1				
: 71.6 A : 5.2 : 24.9 kgfm : 180 % : 200 % : 1460 rpm	Duty cycle Insulation Service fa	e class actor	: 0.3861 kgm : Cont.(S1) : F : 1.00 : 105 K : B	2
Changes Summary		Performed	Checked	Date
	: 5.2 : 24.9 kgfm : 180 % : 200 % : 1460 rpm	: 5.2 Duty cycle : 24.9 kgfm Insulation : 180 % Service fa : 200 % Temperat : 1460 rpm Design	: 5.2 : 24.9 kgfm : 180 % : 200 % : 1460 rpm Duty cycle Insulation class Service factor Temperature rise Design	: 5.2 Duty cycle : Cont.(S1) : 24.9 kgfm Insulation class : F : 180 % Service factor : 1.00 : 200 % Temperature rise : 105 K : 1460 rpm Design : B

Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	21/10/2024				7/9	
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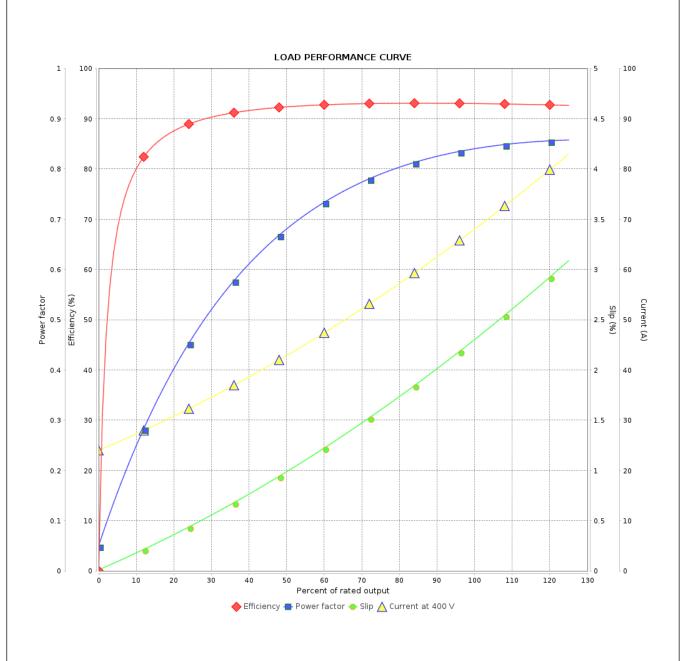


Customer

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11438076



Performance	: 4	00 V 50 Hz 4P IE2				
Rated current		8.4 A	Moment o	Moment of inertia (J)		2
LRC : 5		.8	Duty cycle	Duty cycle		
Rated torque : 2		4.8 kgfm	Insulation	class	: F	
Locked rotor torque :		00 %	Service fa	Service factor		
Breakdown torque	e : 2	40 %	Temperat	Temperature rise		
Rated speed	: 1	465 rpm	Design		: B	
Rev.		Changes Summar	гу	Performed	Checked	Date
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Checked by					Page	Revision
Date	21/10/2024	1			8/9	

Three Phase Induction Motor - Squirrel Cage



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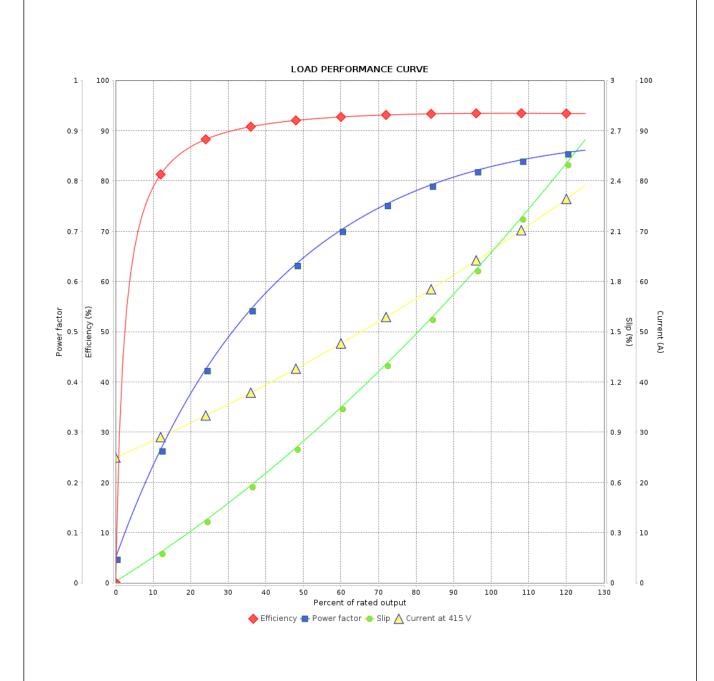
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Date

21/10/2024

Product line : W22 NEMA Premium Efficiency Product code : 11438076

Three-Phase



Performance	: 415 V 50 Hz 4P IE2				
Rated current	: 66.3 A	Moment of inertia (J)		: 0.3861 kgm²	
LRC	: 6.2	Duty cycle)	: Cont.(S1)	
Rated torque	: 24.7 kgfm	Insulation class		: F	
Locked rotor torque	: 210 %	Service factor		: 1.00	
Breakdown torque	: 260 %	Temperature rise		: 105 K	
Rated speed	: 1470 rpm	Design		: B	
Rev.	Changes Summary	I	Performed	Checked	Date
Performed by					

Page

9/9