### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Duty cycle

Altitude

Ambient temperature

Product line : W40 NEMA Premium Efficiency Three-Product code:

: 404/5TSC Frame Insulation class

: Cont.(S1)

: -20°C to +40°C

: 1000 m.a.s.l.

Cooling method : IC01 - ODP

Mounting : F-1

Rotation<sup>1</sup> : Both (CW and CCW) Starting method : Direct On Line

14427828

Approx. weight<sup>3</sup> : 404 kg : 0.3468 kgm<sup>2</sup>

Moment of inertia (J)

: IP23

Protection degree Design

: B

Output [HP] 125 100 100 100 Poles 2 2 2 2 60 Frequency [Hz] 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 272/136 137 133 131 L. R. Amperes [A] 1850/925 986 931 1022 LRC [A] 6.8x(Code G) 7.2x(Code H) 7.0x(Code H) 7.8x(Code J) No load current [A] 72.0/36.0 33.0 36.5 40.0 Rated speed [RPM] 3557 2955 2960 2965 Slip [%] 1.19 1.50 1.33 1.17 Rated torque [kgfm] 25.5 24.6 24.5 24.5 Locked rotor torque [%] 170 170 190 200 Breakdown torque [%] 260 250 280 290 Service factor 1.25 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K Locked rotor time 21s (cold) 12s (hot) 16s (cold) 9s (hot) 19s (cold) 11s (hot) 16s (cold) 9s (hot) Noise level<sup>2</sup> 84.0 dB(A) 25% 50% 93.0 91.9 92.0 92.0 Efficiency (%) 75% 94.1 92.9 92.9 92.9 100% 94.1 94.7 94.7 94.7 25% 50% 0.79 0.80 0.77 0.70 Power Factor 75% 0.86 0.86 0.84 0.80 100% 0.88 0.88 0.86 0.84

Drive end Non drive end

Bearing type 6314 C3 6212 Z C3 Sealing Without Without

Bearing Seal Bearing Seal

Lubrication interval 14418 h 20000 h Lubricant amount 13 g 27 g Mobil Polyrex EM Lubricant type

Foundation loads

Max. traction : 496 kgf Max. compression : 900 kgf

Notes

USABLE @208V 301A SF 1.15 SFA 346A

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	Checked	Date
Performed by					
Checked by				Page	Revision
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### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-

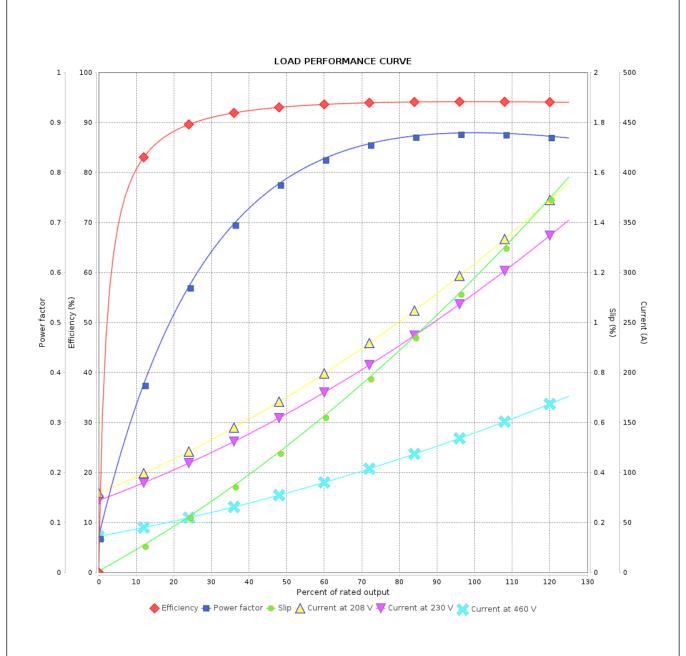
Product code:

14427828

Phase

15/01/2024

Date



Performance	: 230/460 V 60 Hz 2P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 272/136 A : 6.8 : 25.5 kgfm : 170 % : 260 % : 3557 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.3468 kgm² : Cont.(S1) : F : 1.25 : 80 K : B			
Rev.	Changes Summary		Performed	Checked	Date		
Performed by							
Checked by				Page	Revision		

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### Three Phase Induction Motor - Squirrel Cage

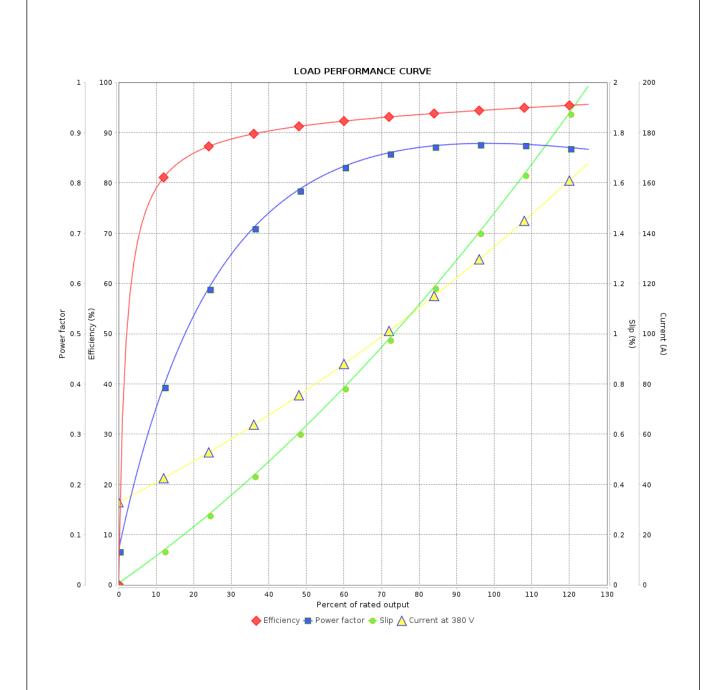


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Customer :

Product line : W40 NEMA Premium Efficiency Three- Product code :

Phase



Performance	: 38	30 V 50 Hz 2P IE3					
Rated current		37 A Moment of inertia (J)		: 0.3468 kgm²	2		
LRC		2	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque		4.6 kgfm	Insulation	Insulation class			
Locked rotor torque		70 %	Service fa	Service factor			
Breakdown torque	e : 25	50 %	Temperati	Temperature rise			
Rated speed	: 29	2955 rpm Design			: B		
Rev.		Changes Summary		Performed	Checked	Date	
Performed by							
Checked by					Page	Revision	
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### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-

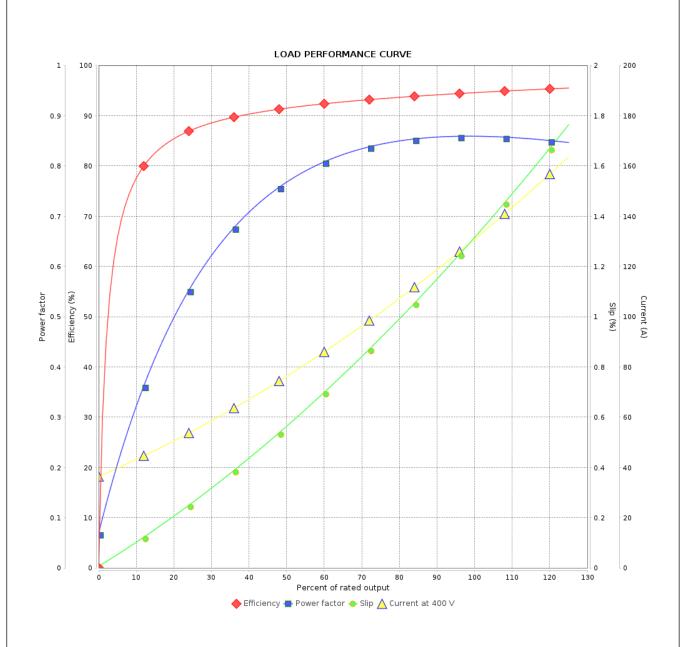
Product code:

14427828



15/01/2024

Date



Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 133 A : 7.0 : 24.5 kgfm : 190 % : 280 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 0.3468 kgm² : Cont.(S1) : F : 1.00 : 80 K	
Rated speed  Rev.	: 2960 rpm Changes Summary	Design	Performed	: B Checked	Date
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Checked by				Page	Revision

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### Three Phase Induction Motor - Squirrel Cage

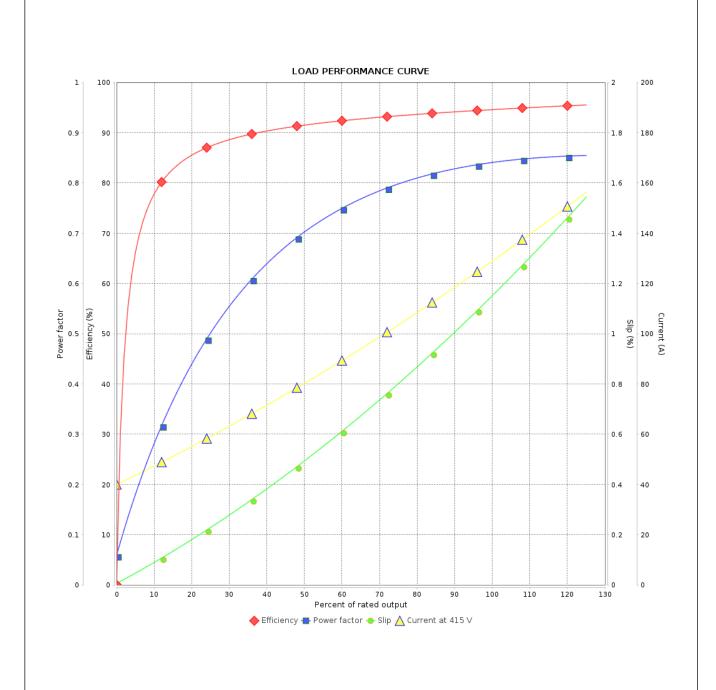


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Customer :

Product line : W40 NEMA Premium Efficiency Three- Product code :

Phase



Performance		: 415 V 50 Hz 2P IE3						
Rated current LRC Rated torque Locked rotor torque		31 A 8 4.5 kgfm 00 %	Duty cycle Insulation	Moment of inertia (J) Duty cycle Insulation class Service factor		2		
Breakdown torque Rated speed		90 % 965 rpm		Temperature rise				
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Checked by					Page	Revision		
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