### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Three-Product code: 15825715

Frame : 324TS Cooling method : IC01 - ODP Insulation class Mounting : F : 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

Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 189 kg Protection degree : IP23 Moment of inertia (J) : 0.1272 kgm<sup>2</sup>

Design		: B			. ,	· ·	
Output [HP]		50		40	40	40	
Poles		2	2		2	2	
Frequency [Hz]		60	50		50	50	
Rated voltage [V]		230/460	380		400	415	
Rated current [A]		119/59.5	57.5		56.6	56.6	
L. R. Amperes [A]		749/375	368		374	385	
LRC [A]		6.3x(Code G)	6.4x(Code G)		6.6x(Code H)	6.8x(Code H)	
No load current [A		39.0/19.5		18.0	21.5	25.0	
Rated speed [RPN	1]	3555		2955	2960	2965	
Slip [%]		1.25		1.50	1.33	1.17	
Rated torque [kgfm]		10.2		9.82	9.81	9.79	
Locked rotor torqu	ocked rotor torque [%]			200	229	240	
Breakdown torque [%]		220		220	240	260	
Service factor		1.25		1.00	1.00	1.00	
Temperature rise		80 K		80 K	80 K	80 K	
Locked rotor time		25s (cold) 14s (hot)	19s (cc	old) 11s (hot)	21s (cold) 12s (hot)	19s (cold) 11s (hot)	
Noise level <sup>2</sup>		75.0 dB(A)					
	25%						
Efficiency (%)	50%	91.7		90.0	90.0	90.1	
Efficiency (%)	75%	93.0		91.6	91.7	91.7	
	100%	93.0		93.3	93.3	93.3	
	25%						
Power Factor	50%	0.72		0.73	0.67	0.60	
I OWEI Facioi	75%	0.81		0.82	0.77	0.73	
	100%	0.84		0.85	0.82	0.79	

Non drive end Foundation loads Drive end Bearing type 6312 Z C3 6211 Z C3 Max. traction Sealing Without Without Max. compression

Bearing Seal Bearing Seal Lubrication interval 19658 h 20000 h Lubricant amount 11 g 21 g

Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 130A SF 1.15 SFA 149A

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
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Date	22/10/2023			1/5	

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-

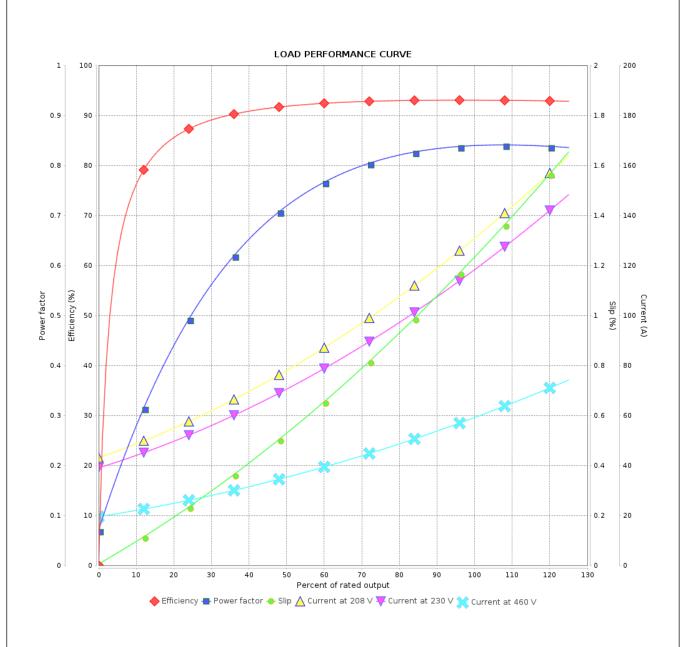
Product code:

15825715



22/10/2023

Date



Performance	: 230/460 V 60 Hz 2P							
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 119/59.5 A : 6.3 : 10.2 kgfm : 200 % : 220 % : 3555 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1272 kgm² : Cont.(S1) : F : 1.25 : 80 K : B				
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#### Three Phase Induction Motor - Squirrel Cage



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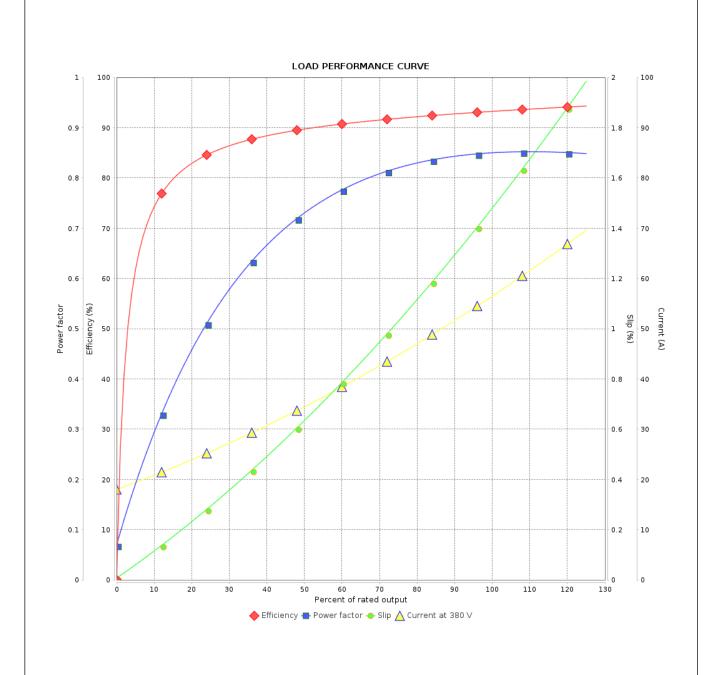
Customer :

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

Phase

22/10/2023

Date



Performance	: 380 V 50 Hz 2P IE3						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 57.5 A : 6.4 : 9.82 kgfm : 200 % : 220 % : 2955 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1272 kgm² : Cont.(S1) : F : 1.00 : 80 K : B			
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

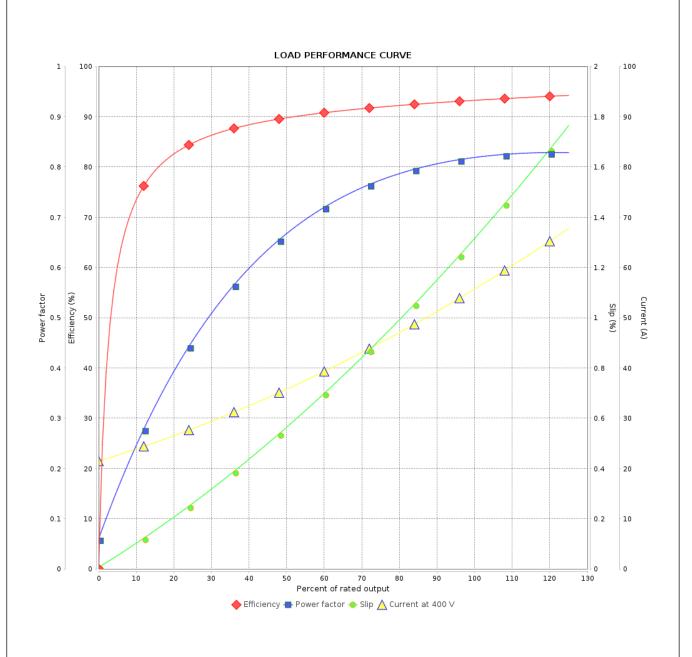
Product line : W40 NEMA Premium Efficiency Three-

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Product code:

15825715

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Performance	: 400 V 50 Hz 2P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 56.6 A : 6.6 : 9.81 kgfm : 229 % : 240 % : 2960 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.1272 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision

22/10/2023

Date

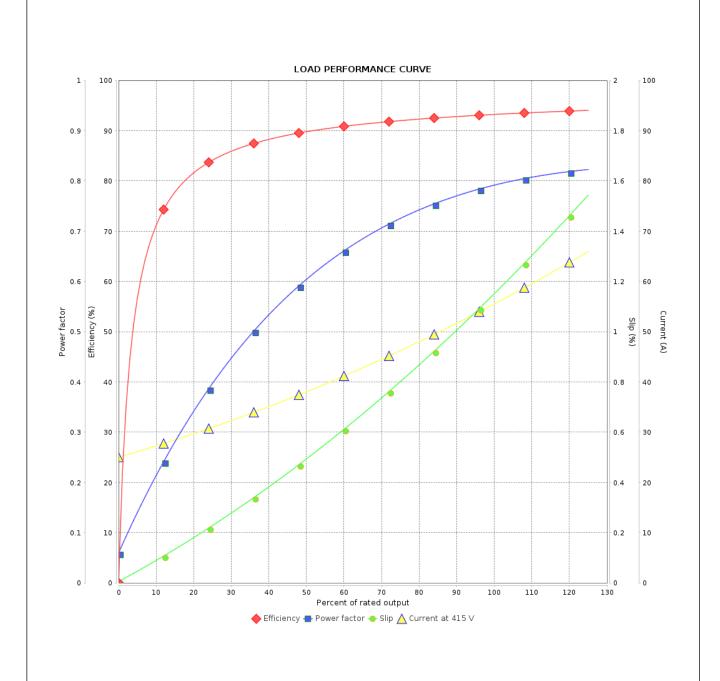
#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three- Product code : 15825715

Phase



Performance	rmance : 415 V 50 Hz 2P IE3					
Rated current	: 5	66.6 A	A Moment of inertia (J)		: 0.1272 kgm²	
LRC	: 6.8 Duty cycle		<b>;</b>	: Cont.(S1)		
Rated torque			class	: F		
Locked rotor torque	e : 2	240 %	Service factor		: 1.00	
Breakdown torque	: 2	260 %	Temperature rise		: 80 K	
Rated speed	: 2	.965 rpm	Design		: B	
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Checked by					Page	Revision
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