DATA SHEET

Three Phase Induction Motor - Squirrel Cage



14011072

Customer

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

: 404/5TS Frame Cooling method : IC01 - ODP

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

Altitude : 1000 m.a.s.l. Approx. weight³ : 393 kg Protection degree : IP23 Moment of inertia (J) : 0.3468 kgm²

Design		: B			
Output [HP]		125	100	100	100
Poles		2	2	2	2
Frequency [Hz]		60	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)	7.2x(Code H) 7.0x(Code H)	
No load current [A]	72.0/36.0	33.0	36.5	40.0
Rated speed [RPN	/ 1]	3557	2955	2960	2965
Slip [%]		1.19	1.50	1.33	1.17
Rated torque [kgfm]		25.5	24.6	24.6 24.5	
Locked rotor torqu	e [%]	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 ²		84.0 dB(A)			
	25%	92.8	90.2	90.3	90.3
Efficiency (%)	50%	93.0	91.9	92.0	92.0
Liliciency (70)	75%	94.1	92.9	92.9	92.9
	100%	94.1	94.7	94.7	94.7
	25%	0.57	0.59	0.55	0.48
Power Factor	50%	0.79	0.80	0.77	0.70
1 OWELL ACIOI	75%	0.86	0.86	0.84	0.80
	100%	0.88	0.88	0.86	0.84

Non drive end Foundation loads Drive end

Bearing type 6314 C3 6212 Z C3 Max. traction : 502 kgf Sealing Without Without Max. compression : 894 kgf

Bearing Seal Bearing Seal Lubrication interval 14418 h 20000 h Lubricant amount

13 g 27 g Mobil Polyrex EM Lubricant type

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
Date	15/01/2024			1/5	

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-

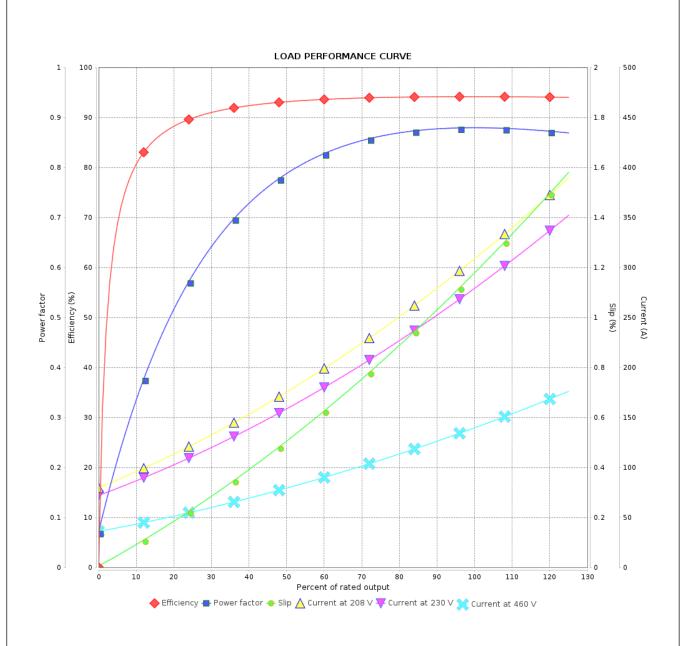
Product code:

14011072



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

2/5

Three Phase Induction Motor - Squirrel Cage

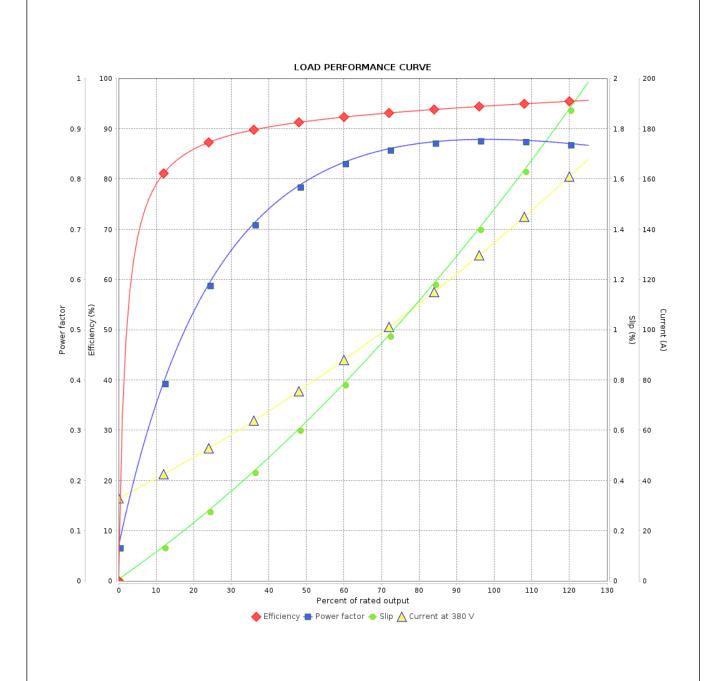


14011072

Customer :

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

Phase



Performance	: 38	80 V 50 Hz 2P IE3				
LRC : 7.2		· 	Duty cycle	Moment of inertia (J) Duty cycle		2
Locked rotor torque : 1		4.6 kgfm 70 % 50 %	Service fa	Insulation class Service factor Temperature rise		
		955 rpm	Design		: 80 K : B	
Rev. Changes Summary		У	Performed	Checked	Date	
Performed by						
Checked by		1			Page	Revision
Date	15/01/2024	1			3/5	

Three Phase Induction Motor - Squirrel Cage

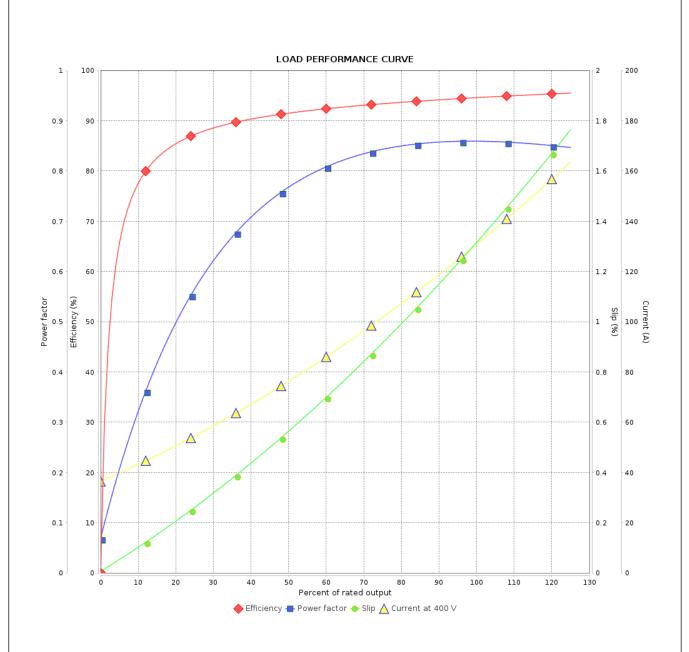


Customer

Product line : W40 NEMA Premium Efficiency ThreeProduct code:

14011072





Performance	: 4	100 V 50 Hz 2P IE3				
Rated current		133 A	Moment of	Moment of inertia (J)		2
LRC : 7.0		' .0	Duty cycle	Duty cycle		
Rated torque : 24		24.5 kgfm	Insulation class		:F	
1		190 %	Service fa	Service factor		
Breakdown torque		280 %	Temperat	Temperature rise		
Rated speed		2960 rpm	0 rpm Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	15/01/2024	7			4/5	

Three Phase Induction Motor - Squirrel Cage



14011072

5/5

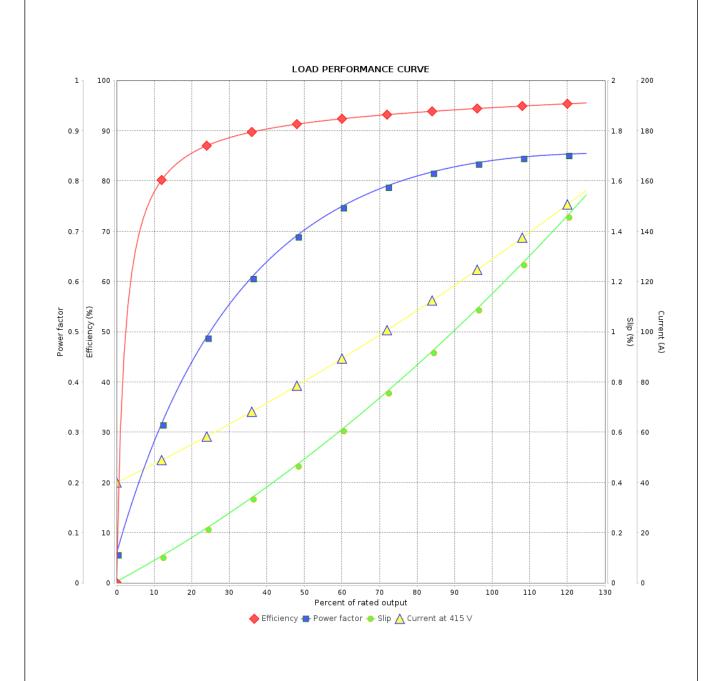
Customer :

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

Phase

15/01/2024

Date



Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 131 A : 7.8 : 24.5 kgfm : 200 % : 290 % : 2965 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.3468 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by				I	
Checked by				Page	Revision