### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Three-Product code: 16241843

: 324TSC Frame 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> : 196 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 [RPI	Л]	3555	2955	2960	2965
Slip [%]		1.25	1.50	1.33	1.17
Rated torque [kgfr	Rated torque [kgfm]		9.82	9.81	9.79
Locked rotor torqu	ie [%]	200	200	229	240
Breakdown torque [%]		220	220	240	260
Service factor		1.25	1.00	1.00	1.00
Temperature rise	Temperature rise		80 K	80 K	80 K
Locked rotor time		25s (cold) 14s (hot)	19s (cold) 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
Liliciericy (70)	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 ower i actor	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	1	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	22/10/2023				1/5	

### Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

22/10/2023

Product line : W40 NEMA Premium Efficiency Three-

Product code:

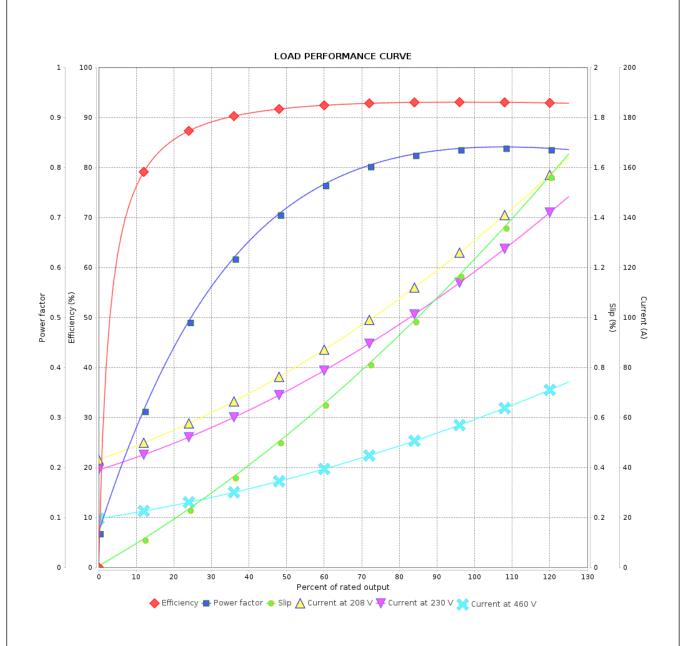
16241843

Page

2/5

Revision





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	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					

### Three Phase Induction Motor - Squirrel Cage

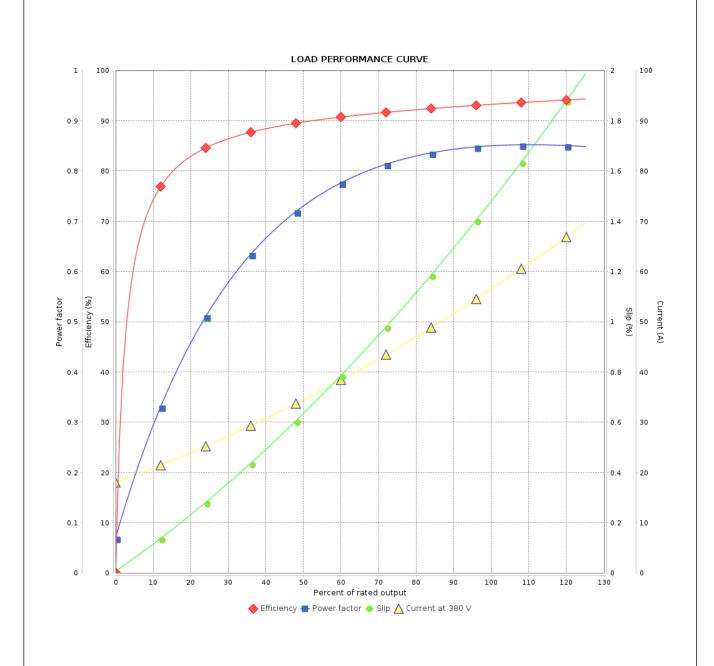


Customer :

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

Phase

Product code: 16241843



Performance	: 3	80 V 50 Hz 2P IE3					
Rated current		.5 A Moment of inertia (J)		: 0.1272 kgm²			
LRC	: 6	.4	Duty cycle	Duty cycle			
Rated torque	: 9	.82 kgfm	Insulation class		: F		
Locked rotor tord	que : 20	00 %	Service fa	Service factor		: 1.00	
Breakdown torque :		20 %	Temperati	Temperature rise		: 80 K	
Rated speed		955 rpm	Design	Design			
Rev.		Changes Summary		Performed	Checked	Date	
Performed by							
Checked by					Page	Revision	
Date	22/10/2023	1			3/5		

### Three Phase Induction Motor - Squirrel Cage



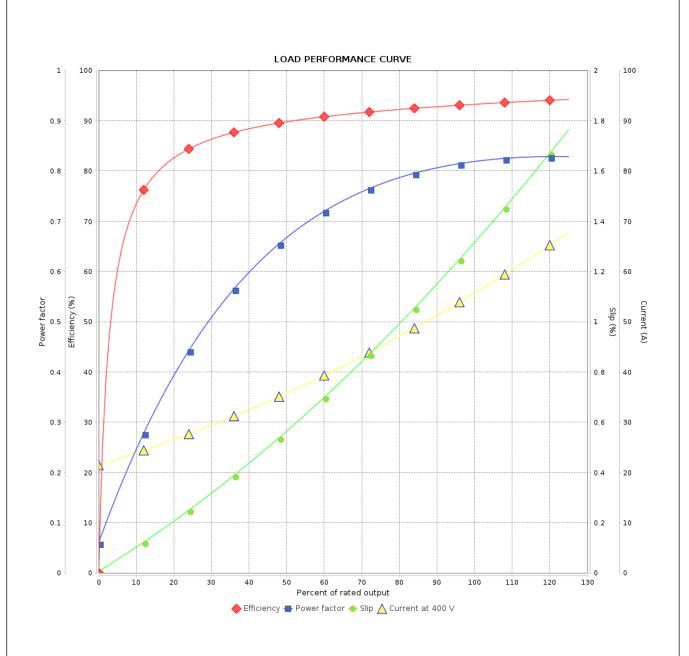
Customer :

Product line : W40 NEMA Premium Efficiency Three-

Product code:

16241843

Phase



Performance	: 4	00 V 50 Hz 2P IE3					
Rated current	: 5	6.6 A Moment of inertia (J)		: 0.1272 kgm²			
LRC :		.6	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque	: 9	.81 kgfm	Insulation	Insulation class			
Locked rotor torque		29 %	Service fa	Service factor		: 1.00	
Breakdown torque	: 2	: 240 % Tem : 2960 rpm Des		ure rise	: 80 K : B		
Rated speed	: 2						
Rev.		Changes Summary		Performed	Checked	Date	
Performed by							
Checked by					Page	Revision	
Date	22/10/2023				4/5		

### Three Phase Induction Motor - Squirrel Cage



16241843

5/5

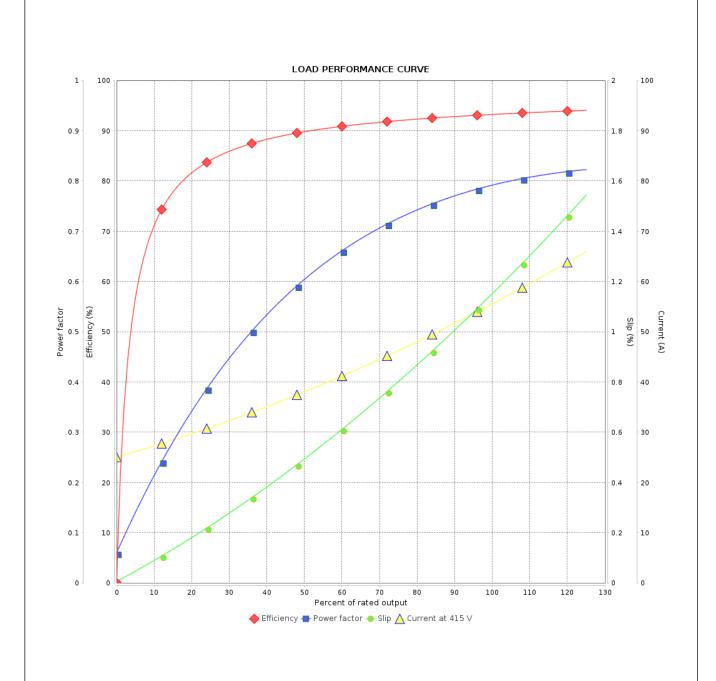
Customer :

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

Phase

22/10/2023

Date



Performance	: 415 V 50 Hz 2P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 56.6 A : 6.8 : 9.79 kgfm : 240 % : 260 % : 2965 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	Performe	d Checked	Date
Performed by				
Checked by			Page	Revision