

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :				
Product line : W40 High Efficiency Three-Phase		Product code : 14491994		
		Catalog # : 04036OP3EFP286TSC-W4		
Frame	: 284/6TSC	Locked rotor time	: 18s (cold) 10s (hot)	
Output	: 40 HP (30 kW)	Temperature rise	: 80 K	
Poles	: 2	Duty cycle	: Cont.(S1)	
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C	
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.	
Rated current	: 94.4/47.2 A	Protection degree	: IP23	
L. R. Amperes	: 576/288 A	Cooling method	: IC01 - ODP	
LRC	: 6.1x(Code G)	Mounting	: F-1	
No load current	: 26.0/13.0 A	Rotation <sup>1</sup>	: Both (CW and CCW)	
Rated speed	: 3540 rpm	Starting method	: Direct On Line	
Slip	: 1.67 %	Approx. weight <sup>3</sup>	: 358 lb	
Rated torque	: 59.3 ft.lb			
Locked rotor torque	: 220 %			
Breakdown torque	: 220 %			
Insulation class	: F			
Service factor	: 1.15			
Moment of inertia (J)	: 1.91 sq.ft.lb			
Design	: B			
Output	25%	50%	75%	100%
Efficiency (%)	90.8	89.1	91.0	89.5
	91.7	89.5	91.7	89.7
	89.9	90.2	90.2	90.2
	90.2	91.0	90.4	90.8
Power Factor	0.54	0.62	0.77	0.82
	0.85	0.87	0.87	0.89
	0.57	0.53	0.78	0.75
	0.85	0.83	0.88	0.87
Foundation loads				
Max. traction				
Max. compression				
		<u>Drive end</u>	<u>Non drive end</u>	
Bearing type	:	6311 Z C3	6211 Z C3	
Sealing	:	Without Bearing Seal	Without Bearing Seal	
Lubrication interval	:	20000 h	20000 h	
Lubricant amount	:	18 g	11 g	
Lubricant type	:	Mobil Polyrex EM		
Notes:				
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
Performed by			Page	Revision
Checked by			1 / 1	
Date	26/03/2024			