

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 High Efficiency Three-Phase Product code : 14491071  
Catalog # : 06036OP3EFP326TS-W40

Frame	: 324/6TS	Locked rotor time	: 30s (cold) 17s (hot)
Output	: 60 HP (45 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	: 141/70.6 A	Protection degree	: IP23
L. R. Amperes	: 833/417 A	Cooling method	: IC01 - ODP
LRC	: 5.9x(Code F)	Mounting	: F-1
No load current	: 40.6/20.3 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 3555 rpm	Starting method	: Direct On Line
Slip	: 1.25 %	Approx. weight <sup>3</sup>	: 453 lb
Rated torque	: 88.6 ft.lb		
Locked rotor torque	: 180 %		
Breakdown torque	: 200 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 3.41 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads
Efficiency (%)	92.3	92.4	93.0	93.0	Max. traction
Power Factor	0.54	0.78	0.84	0.86	Max. compression

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6312 Z C3	6211 Z C3
Sealing	:	Without Bearing Seal	Without Bearing Seal
Lubrication interval	:	19658 h	20000 h
Lubricant amount	:	21 g	11 g
Lubricant type	:	Mobil Polyrex EM	

Notes  
USABLE @208V 153A SF 1.00 SFA 153A

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.

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Date	10/04/2020			

# TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

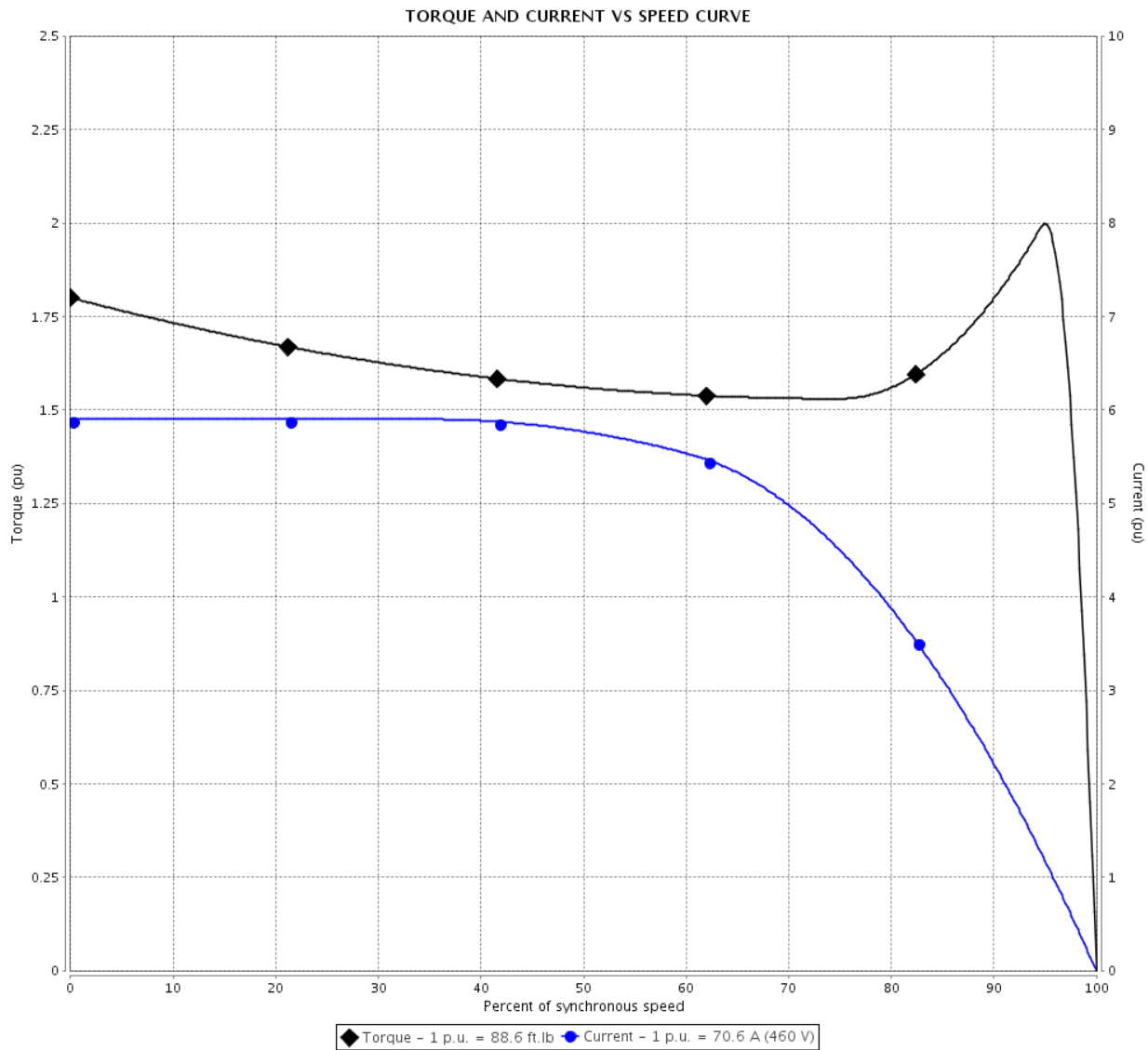
Product line : W40 High Efficiency Three-Phase

Product code :

14491071

Catalog # :

06036OP3EFP326TS-W40



Performance : 230/460 V 60 Hz 2P

Rated current : 141/70.6 A  
 LRC : 5.9  
 Rated torque : 88.6 ft.lb  
 Locked rotor torque : 180 %  
 Breakdown torque : 200 %  
 Rated speed : 3555 rpm

Moment of inertia (J) : 3.41 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

Locked rotor time : 30s (cold) 17s (hot)

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Checked by				
Date	10/04/2020			

# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

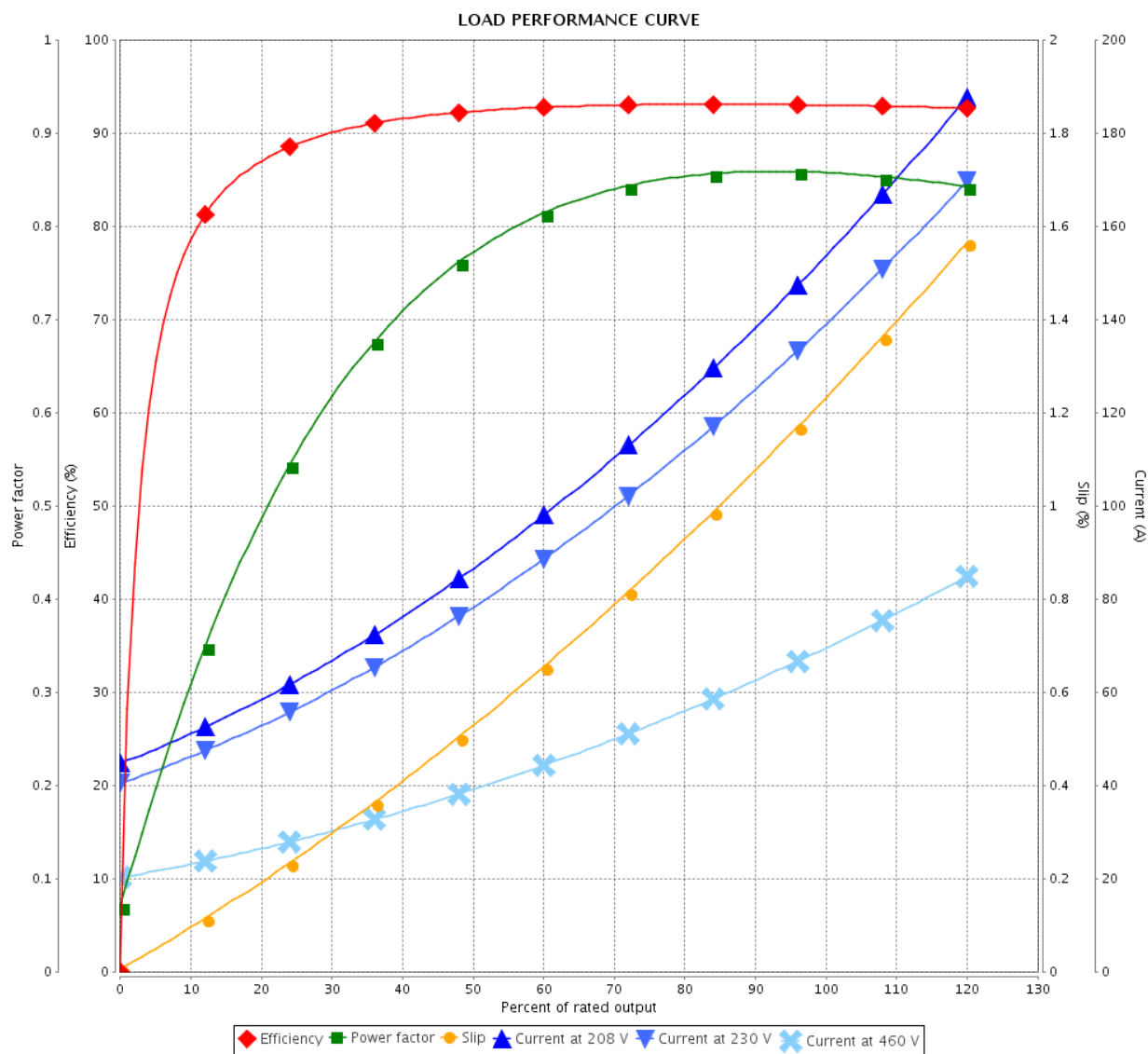
Product line : W40 High Efficiency Three-Phase

Product code :

14491071

Catalog # :

06036OP3EFP326TS-W40



Performance : 230/460 V 60 Hz 2P

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# THERMAL LIMIT CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

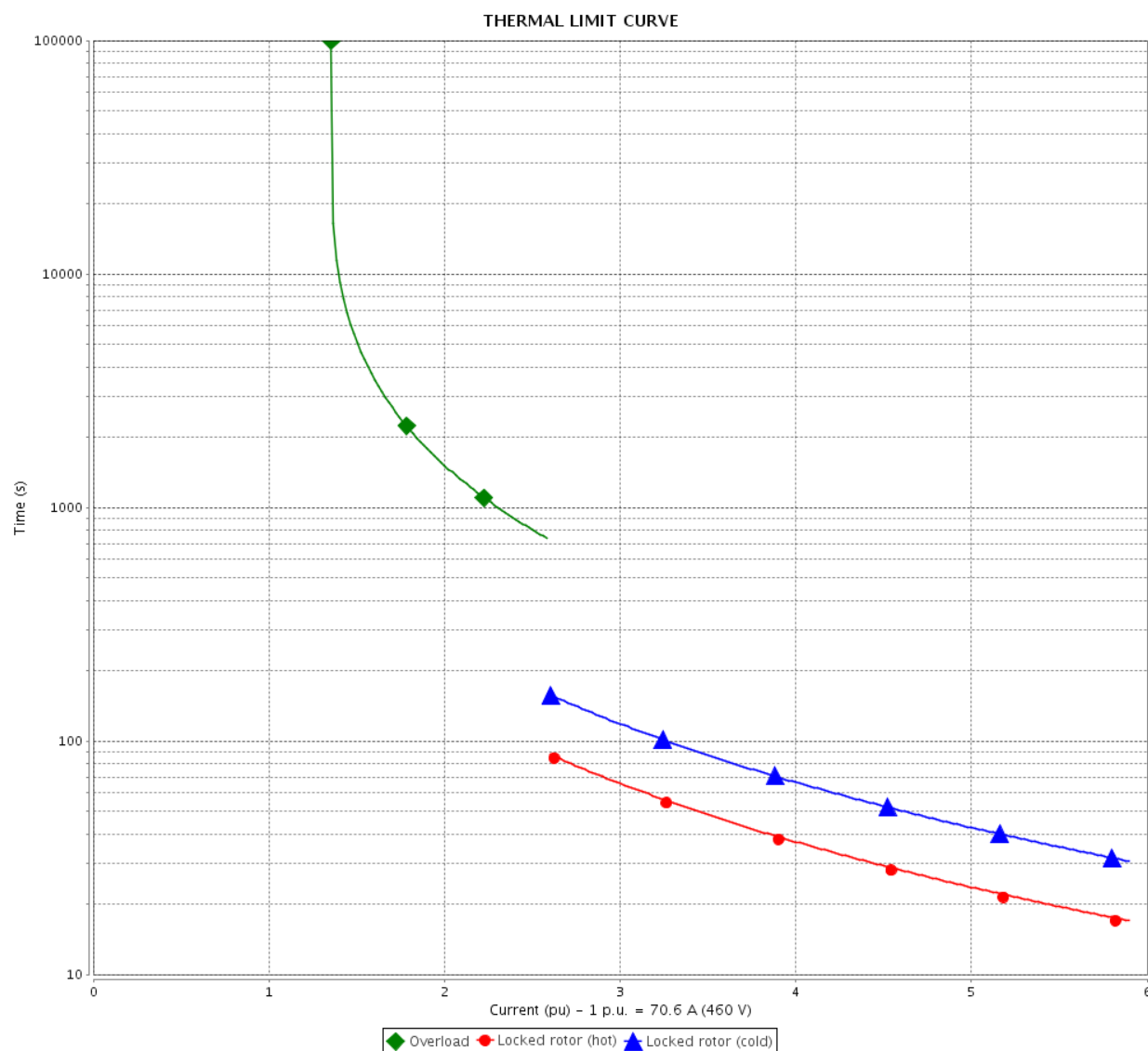
Product line : W40 High Efficiency Three-Phase

Product code :

14491071

Catalog # :

06036OP3EFP326TS-W40



Performance : 230/460 V 60 Hz 2P

Rated current : 141/70.6 A  
 LRC : 5.9  
 Rated torque : 88.6 ft.lb  
 Locked rotor torque : 180 %  
 Breakdown torque : 200 %  
 Rated speed : 3555 rpm

Moment of inertia (J) : 3.41 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
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 Temperature rise : 80 K  
 Design : B

Heating constant

Cooling constant

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# VFD OPERATION CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

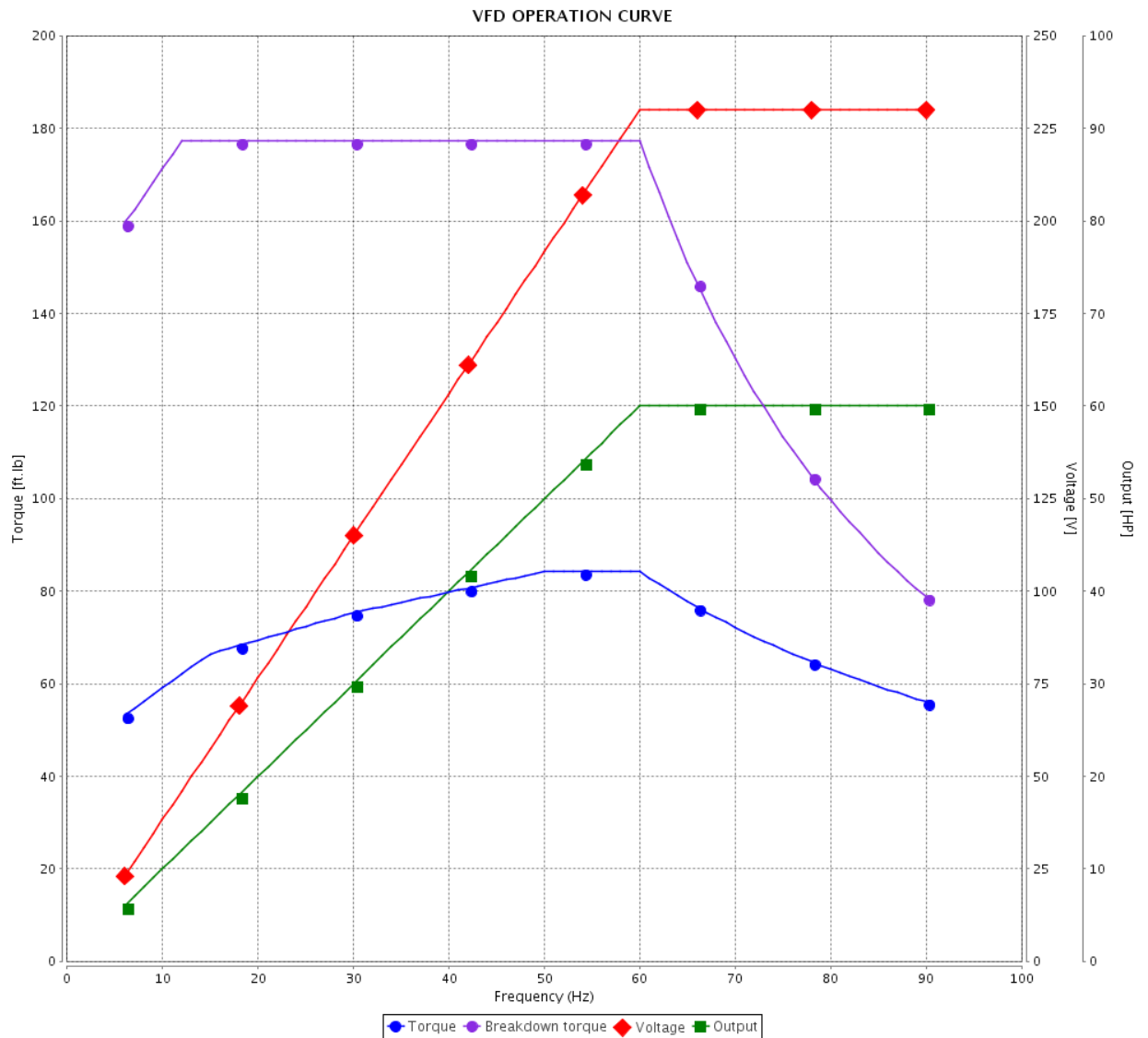
Product line : W40 High Efficiency Three-Phase

Product code :

14491071

Catalog # :

06036OP3EFP326TS-W40



Performance : 230/460 V 60 Hz 2P

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 Rated torque : 88.6 ft.lb  
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Moment of inertia (J) : 3.41 sq.ft.lb  
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Subject to change without notice



MODEL 060360P3EFP326TS-W40

MADE IN BRAZIL

14491071

W40  
CC029A

Inverter Duty Motor

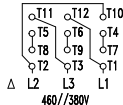
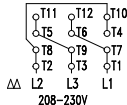


MOD.T01#FOX0H



For 60Hz use on PWM, VT 1000:1, CT 3:1, 1.0SF

PH 3	FR 324/6TS	HP(kW) 60.0(45.0)	Hz 60
V 230/460	A 141/70.6	RPM 3555	DES B
NEMA NOM EFF	93.0 %	INS. CL. F $\Delta$ T 80 K	IP23
ENCL ODP	DUTY	CONT.	AMB. 40°C
CODE F	PF 0.86	SF 1.15	SFA 162/81.2
USABLE @208V	153 A	SF 1.00	
60HP 45kW 50Hz 380V	85.4A 2940RPM	SF1.00 EFF 91.0%	



→ 6312-Z-C3  
→ 6211-Z-C3

MOBIL POLYREX EM  
21 g 19658 h

ALT 1000 m.a.s.l. 452 Lbs