

# DATA SHEET



## Single Phase Induction Motor - Squirrel Cage

Customer :					
Product line : Single-Phase		Product code : 13823769			
		Catalog # : .2518ES1BW56CFL-S			
Frame : W56C Output : 0.25 HP (0.18 kW) Poles : 4 Frequency : 60 Hz Rated voltage : 115/208-230 V Rated current : 4.60/2.54-2.30 A L. R. Amperes : 24.4/13.5-12.2 A LRC : 5.3x(Code N) No load current : 4.00/1.72-2.00 A Rated speed : 1735 rpm Slip : 3.61 % Rated torque : 0.757 ft.lb Locked rotor torque : 310 % Breakdown torque : 280 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.0318 sq.ft.lb Design : N		Locked rotor time : 27s (cold) 15s (hot) Temperature rise : 80 K Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP55 Cooling method : IC411 - TEFC Mounting : F-1 Rotation <sup>1</sup> : Both (CW and CCW) Noise level <sup>2</sup> : 52.0 dB(A) Starting method : Direct On Line Approx. weight <sup>3</sup> : 15.7 lb			
Output	25%	50%	75%	100%	
Efficiency (%)	39.8	43.0	52.0	57.0	
Power Factor	0.25	0.43	0.52	0.60	
Foundation loads					
Max. traction : 12 lb					
Max. compression : 28 lb					
		<u>Drive end</u>	<u>Non drive end</u>		
Bearing type	:	6203 ZZ	6202 ZZ		
Sealing	:	V'Ring	Without Bearing Seal		
Lubrication interval	:	-	-		
Lubricant amount	:	-	-		
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	Date
Performed by				Page      Revision 1 / 2	
Checked by					
Date		28/07/2022			

# LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

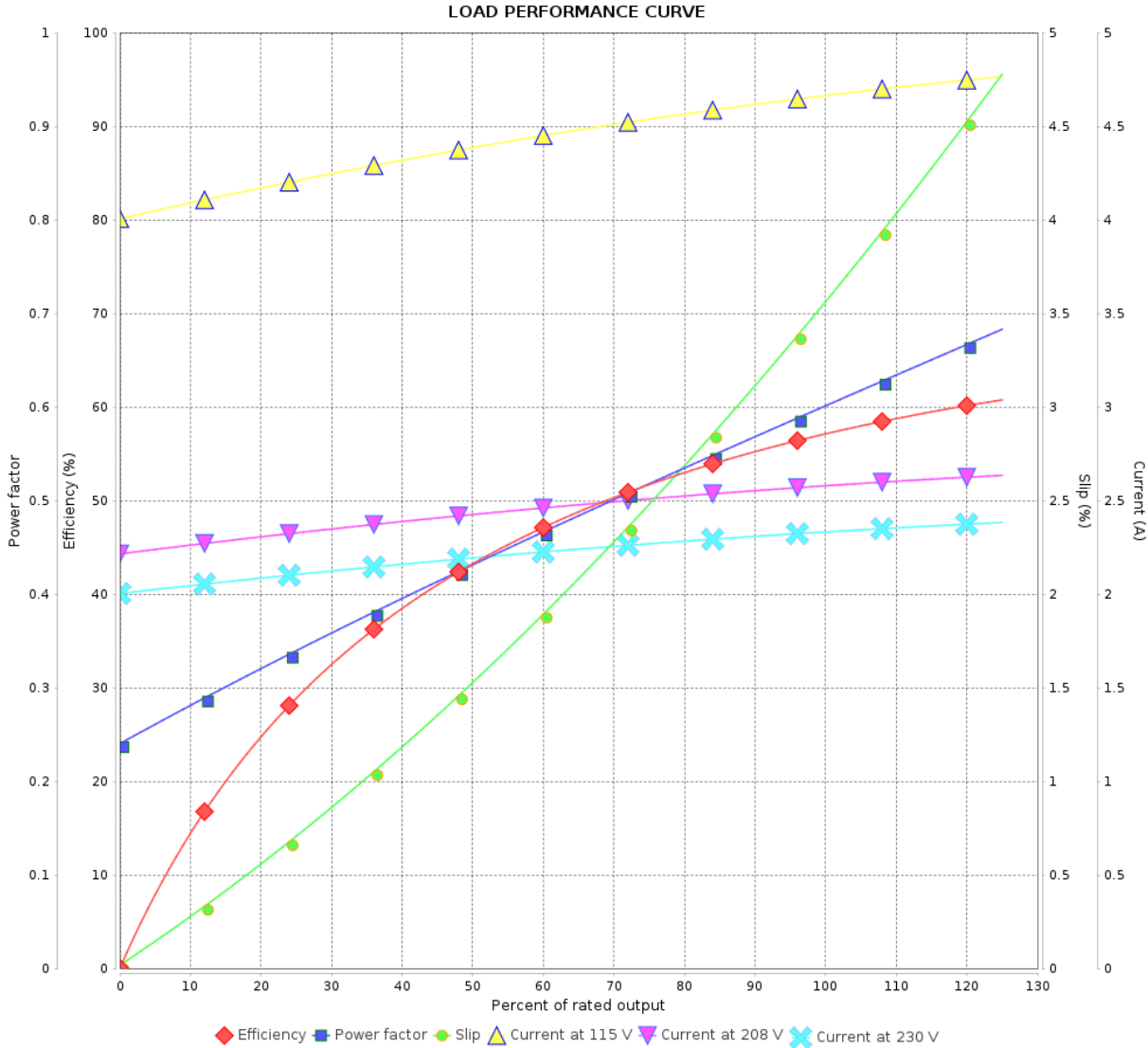
Product line : Single-Phase

Product code :

13823769

Catalog # :

.2518ES1BW56CFL-S



Performance : 115/208-230 V 60 Hz 4P

Rated current : 4.60/2.54-2.30 A  
 LRC : 5.3  
 Rated torque : 0.757 ft.lb  
 Locked rotor torque : 310 %  
 Breakdown torque : 280 %  
 Rated speed : 1735 rpm

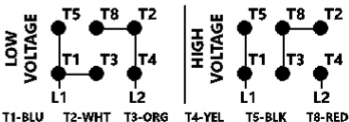
Moment of inertia (J) : 0.0318 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K  
 Design : N

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MADE IN MEXICO  
13823769**MODEL .2518ES1BW56CFL-S**  
**W01.ME0IC0X0X**

PH1	Hz 60	FR W56C	ALT 1000 m.a.s.l	ENCL TEFC	IP55
V	115/208-230		A	4.60/2.54-2.30	
HP	0.25		kW	0.18	
SF	1.15		SFA	-	
RPM	1735		PF	0.60	
AMB	40°C		INS CL F ΔT 80K	AVG. F.L. EFF.	57.0%
DUTY CONT.			DES N CODE N		

USABLE @ 208V SF1.00

**Electric Motor**DE 8203-ZZ  
ODE 8202-ZZ**MOBIL POLYREX EM****WARNING:** Motor must be grounded in accordance with local and national electrical codes to prevent serious electrical shocks. Disconnect power source before servicing unit.**AVERTISSEMENT:** Le moteur doit être mis à la terre conformément aux codes électriques locaux nationaux afin d'éviter tout choc électrique grave. Déconnectez l'alimentation avant l'entretien de la machine.**REVERSE ROTATION INVERT T5 AND T8**B/N:  
10JUN2022