

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



Customer :					
Product line		: Rolled Steel Grain Dryer Single-Phase		Product code : 14862262	
				Catalog # : 01036AP1DGD182TZ-S	
Frame : 182/4TZ Output : 7.5 HP (5.5 kW) Poles : 2 Frequency : 60 Hz Rated voltage : 230 V Rated current : 27.2 A L. R. Amperes : 242 A LRC : 8.9x(Code J) No load current : 2.90 A Rated speed : 3530 rpm Slip : 1.94 % Rated torque : 11.2 ft.lb Locked rotor torque : 210 % Breakdown torque : 345 % Insulation class : F Service factor : 1.00			Locked rotor time : 16s (cold) 9s (hot) Temperature rise : 105 K Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP55 Cooling method : IC410 - TEAO Mounting : F-3 Rotation <sup>1</sup> : Both (CW and CCW) Noise level <sup>2</sup> : 72.0 dB(A) Starting method : Direct On Line Approx. weight <sup>3</sup> : 94.1 lb		
Output	25%	50%	75%	100%	Foundation loads Max. traction : 195 lb Max. compression : 290 lb
Efficiency (%)	80.5	82.1	86.3	87.8	
Power Factor	0.86	1.0	1.0	1.0	
		<u>Drive end</u>		<u>Non drive end</u>	
Bearing type	:	6206 ZZ		6205 ZZ	
Sealing	:	V'Ring		V'Ring	
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					
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### Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

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Performed by				Page	Revision
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Date	10/04/2020				

# LOAD PERFORMANCE CURVE

## Single Phase Induction Motor - Squirrel Cage

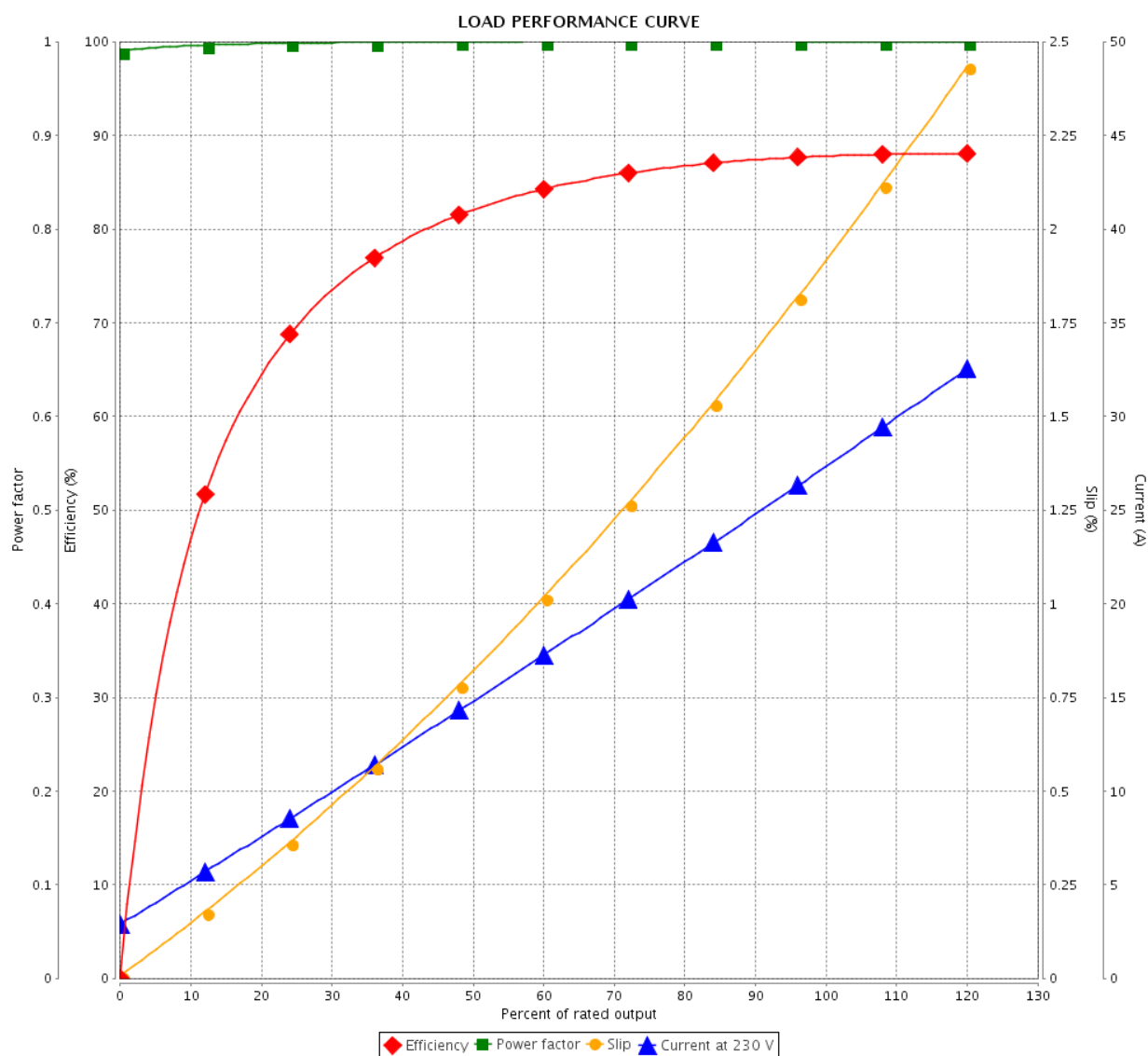


Customer :

Product line : Rolled Steel Grain Dryer Single-Phase

Product code : 14862262

Catalog # : 01036AP1DGD182TZ-S



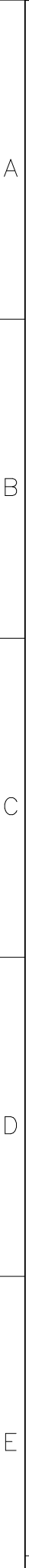
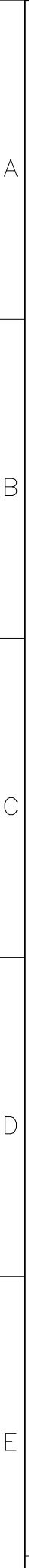
Performance : 230 V 60 Hz 2P

Rated current : 27.2 A  
 LRC : 8.9  
 Rated torque : 11.2 ft.lb  
 Locked rotor torque : 210 %  
 Breakdown torque : 345 %  
 Rated speed : 3530 rpm



Moment of inertia (J)  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 105 K

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		Revision		

THIS IS AN UPDATED REVISION, THE  
PREVIOUS ONE MUST BE DISREGARDED.



Mounting B3T

ECM	LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	USERADMIN		SINGLE PHASE MOTOR CLOSED ROLLED STEEL						
CHECKED			FRAME 182/4TZ IP55 TEAO						
RELEASED			GRAIN DRYER   WEG code: 148622						
REL DT	10.04.2020	WMO	Jaragua do Sul	Product Engineering	SHEET		1 / 1		

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ZME	A3
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