

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



Customer	:			
Product line	: Single-Phase	Product code : 15557700		
Frame	: W56	Cooling method : IC411 - TEFC		
Insulation class	: F	Mounting : 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> : 10.9 kg		
Protection degree	: IP55	Moment of inertia (J) : 0.0012 kgm <sup>2</sup>		
Design	: N			
Output [HP]		0.33		
Poles		2		
Frequency [Hz]		60		
Rated voltage [V]		115/208-230		
Rated current [A]		3.18/1.75-1.59		
L. R. Amperes [A]		28.6/15.8-14.3		
LRC [A]		9.0x(Code L)		
No load current [A]		1.00/0.431-0.500		
Rated speed [RPM]		3505		
Slip [%]		2.64		
Rated torque [kgfm]		0.068		
Locked rotor torque [%]		290		
Breakdown torque [%]		320		
Service factor				
Temperature rise		80 K		
Locked rotor time		30s (cold) 17s (hot)		
Noise level <sup>2</sup>		66.0 dB(A)		
Efficiency (%)	25%			
	50%	55.0		
	75%	68.0		
	100%	72.0		
Power Factor	25%			
	50%	0.94		
	75%	0.94		
	100%	0.95		
Bearing type	: Drive end : 6203 ZZ Non drive end : 6202 ZZ	Foundation loads		
Sealing	: V'Ring Without Bearing Seal	Max. traction : 1 kgf		
Lubrication interval	: - -	Max. compression : 12 kgf		
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				
Checked by			Page	Revision
Date	17/05/2022		1 / 2	

# LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage

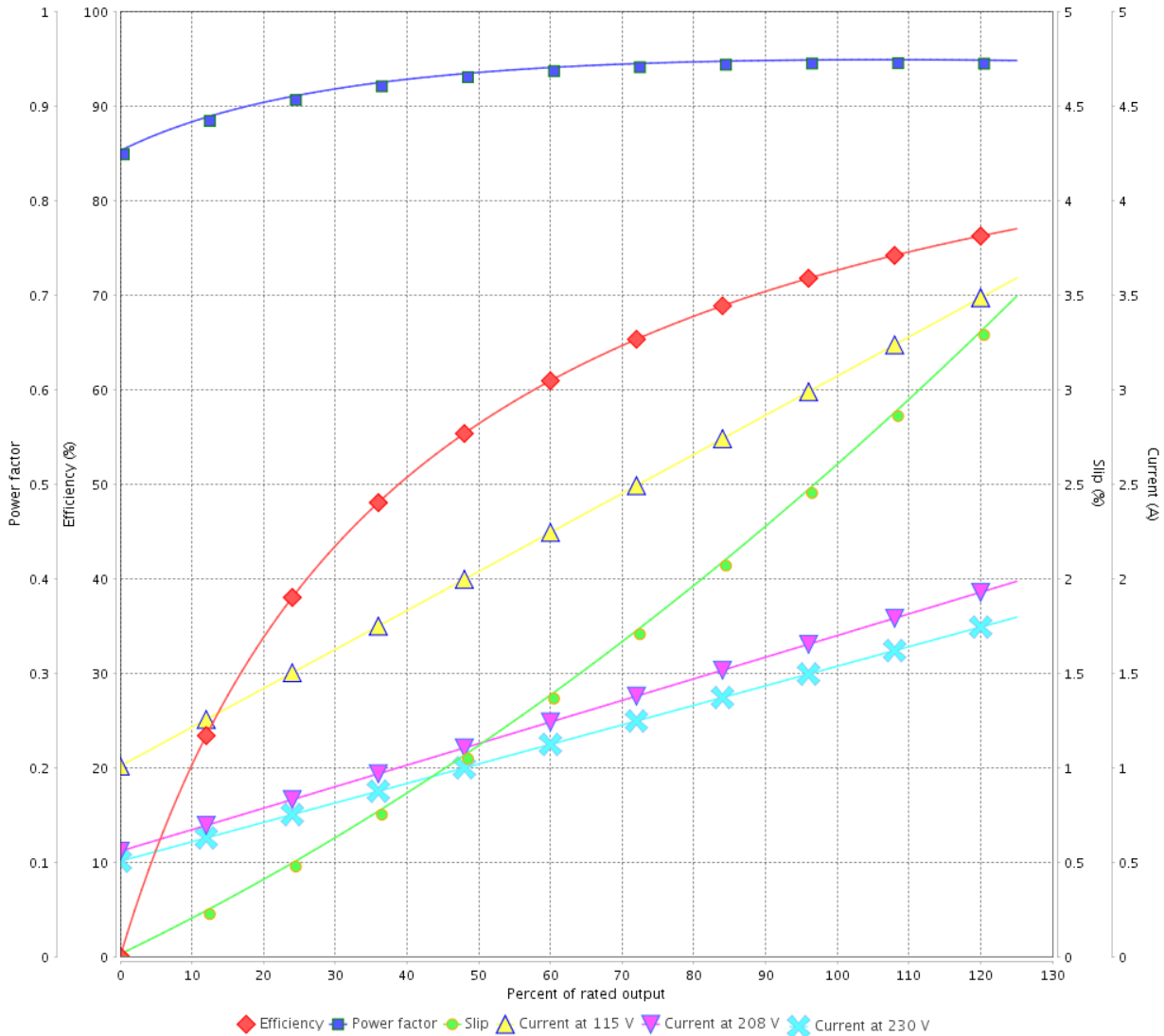


Customer :

Product line : Single-Phase

Product code : 15557700

LOAD PERFORMANCE CURVE



Performance : 115/208-230 V 60 Hz 2P

Rated current : 3.18/1.75-1.59 A  
 LRC : 9.0  
 Rated torque : 0.068 kgfm  
 Locked rotor torque : 290 %  
 Breakdown torque : 320 %  
 Rated speed : 3505 rpm

Moment of inertia (J) : 0.0012 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K  
 Design : N

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
Date				

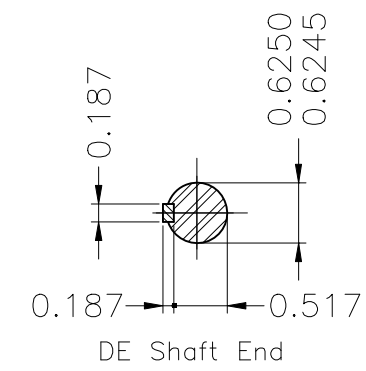
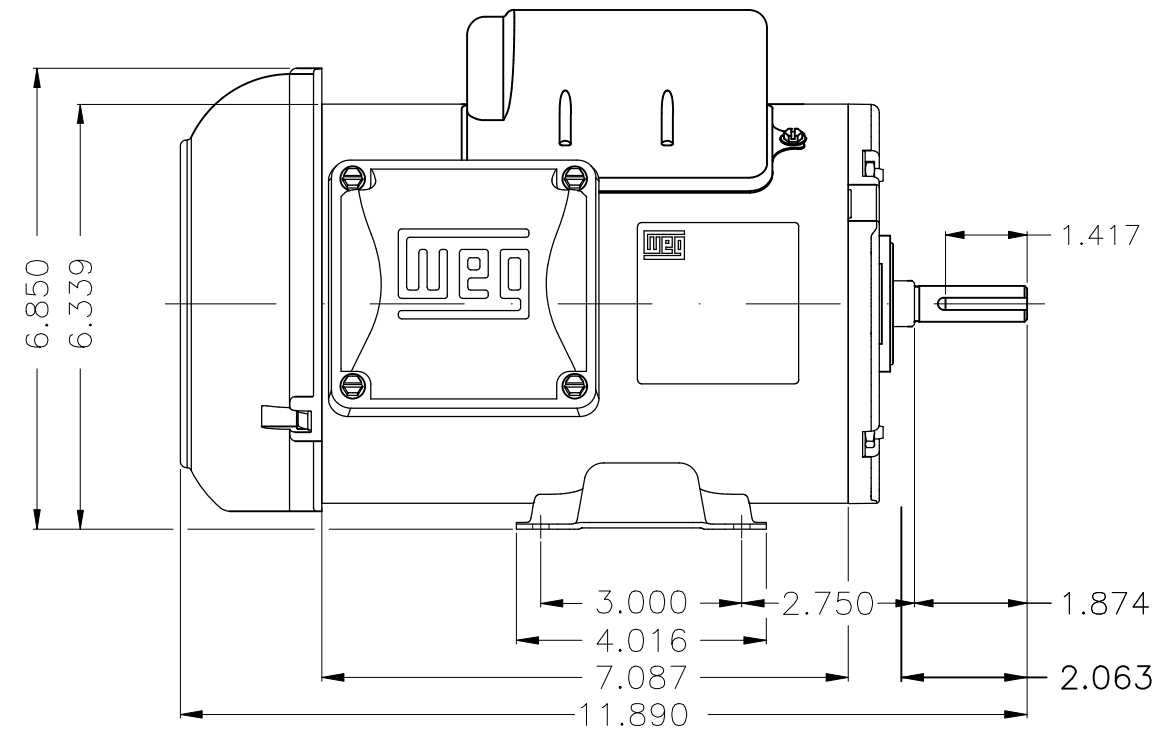
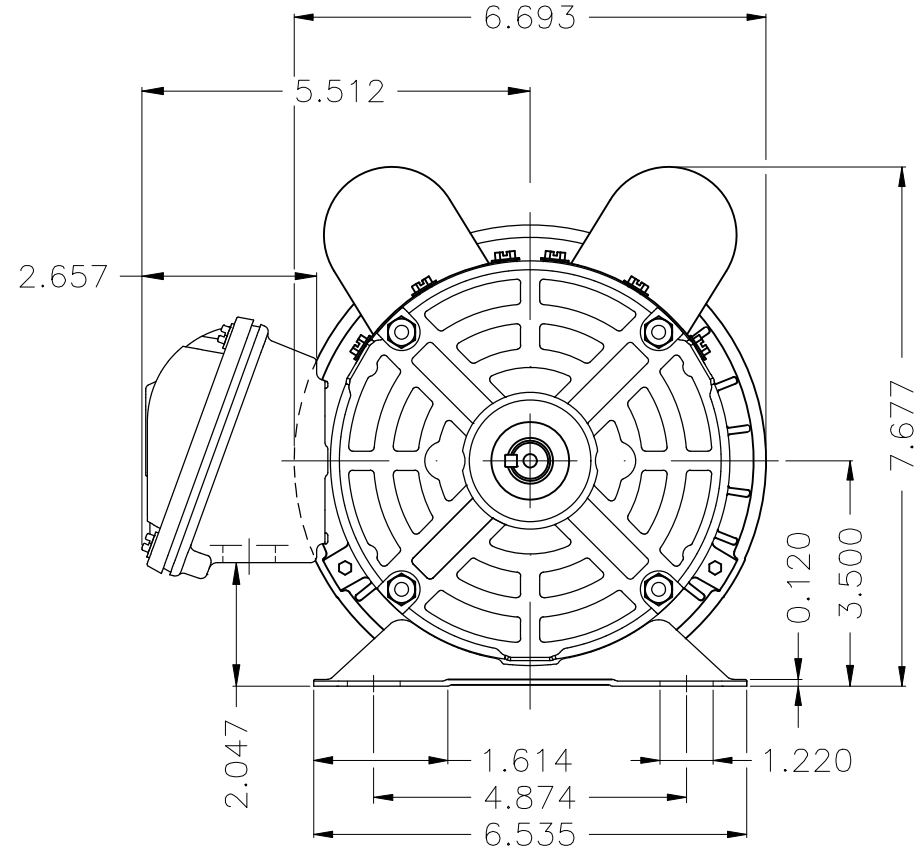
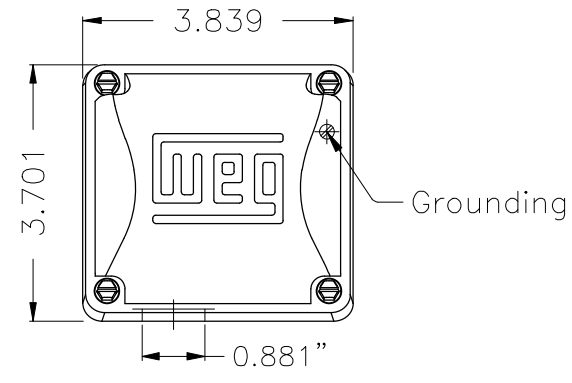
A

B

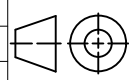

C

D

E



Color Munsell N 1 matte black  
 Painting plan 207N  
 Mounting F-1/B3R(D)

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	 SINGLE PH. MOTOR ROLLED STEEL PREM. EFF. FRAME W56 IP55 TEFC					
CHECKED							
RELEASED							
REL. DATE	WMO	Jaragua do Sul	Product Engineering	PREVIEW WDD   00 SHEET 1 / 1			

0.33 HP 02 Poles 60 Hz

A