

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line		: Premium Efficiency Three-Phase	Product code :	15065846	
Frame	: W56	Cooling method	: IC411 - TEFC		
Insulation class	: F	Mounting	: F-1		
Duty cycle	: Cont.(S1)	Rotation ¹	: Both (CW and CCW)		
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line		
Altitude	: 1000 m.a.s.l.	Approx. weight ³	: 7.2 kg		
Protection degree	: IP55	Moment of inertia (J)	: 0.0006 kgm ²		
Output [HP]	0.33	0.33	0.33		
Poles	2	2	2		
Frequency [Hz]	60	50	50		
Rated voltage [V]	208-230/460	190-220/380	415		
Rated current [A]	1.30-1.15/0.573	1.29-1.12/0.646	0.624		
L. R. Amperes [A]	9.27-8.14/4.07	7.24-6.25/3.62	3.93		
LRC [A]	7.1x(Code L)	5.6x(Code J)	6.3x(Code K)		
No load current [A]	0.610-0.708/0.354	0.692-0.598/0.346	0.398		
Rated speed [RPM]	3450	2800	2830		
Slip [%]	4.17	6.67	5.67		
Rated torque [kgfm]	0.069	0.086	0.085		
Locked rotor torque [%]	320	240	290		
Breakdown torque [%]	370	260	310		
Service factor		1.15	1.15		
Temperature rise	80 K	80 K	80 K		
Locked rotor time	50s (cold) 28s (hot)	50s (cold) 28s (hot)	43s (cold) 24s (hot)		
Noise level ²	65.0 dB(A)	64.0 dB(A)	64.0 dB(A)		
Efficiency (%)	25%				
	50%	59.5	65.8	64.3	
	75%	66.0	70.6	70.2	
	100%	72.0	71.7	72.4	
Power Factor	25%				
	50%	0.61	0.66	0.58	
	75%	0.71	0.77	0.70	
	100%	0.76	0.82	0.77	
Bearing type	: Drive end 6203 ZZ	Non drive end 6202 ZZ	Foundation loads		
Sealing	: V'Ring	Without Bearing Seal	Max. traction	: 4 kgf	
			Max. compression	: 12 kgf	
Lubrication interval	: -	-			
Lubricant amount	: -	-			
Lubricant type	: Mobil Polyrex EM				
Notes USABLE @208V SF 1.00					
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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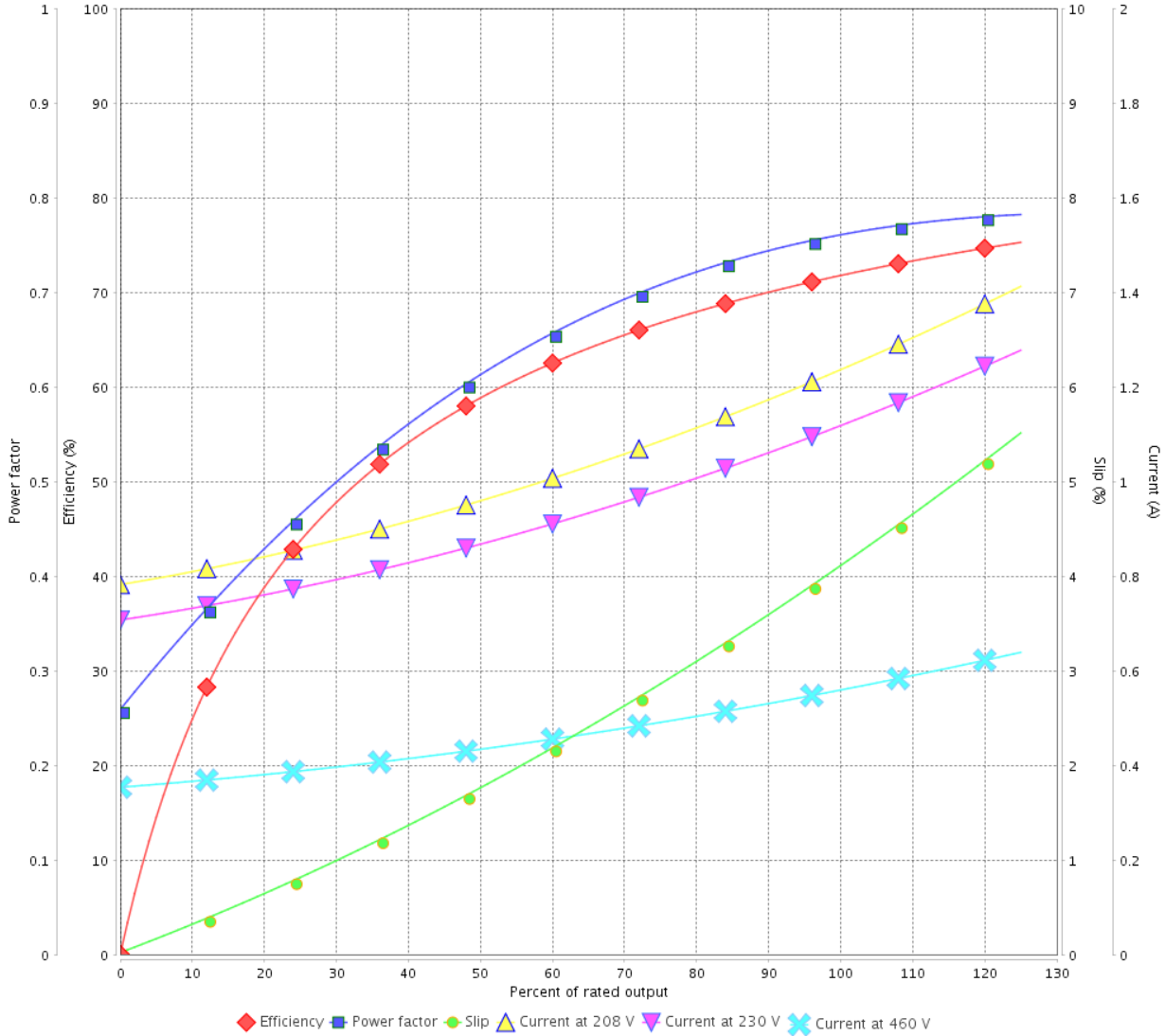
Three Phase Induction Motor - Squirrel Cage



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Performance : 208-230/460 V 60 Hz 2P

Rated current : 1.30-1.15/0.573 A
 LRC : 7.1
 Rated torque : 0.069 kgfm
 Locked rotor torque : 320 %
 Breakdown torque : 370 %
 Rated speed : 3450 rpm

Moment of inertia (J) : 0.0006 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K

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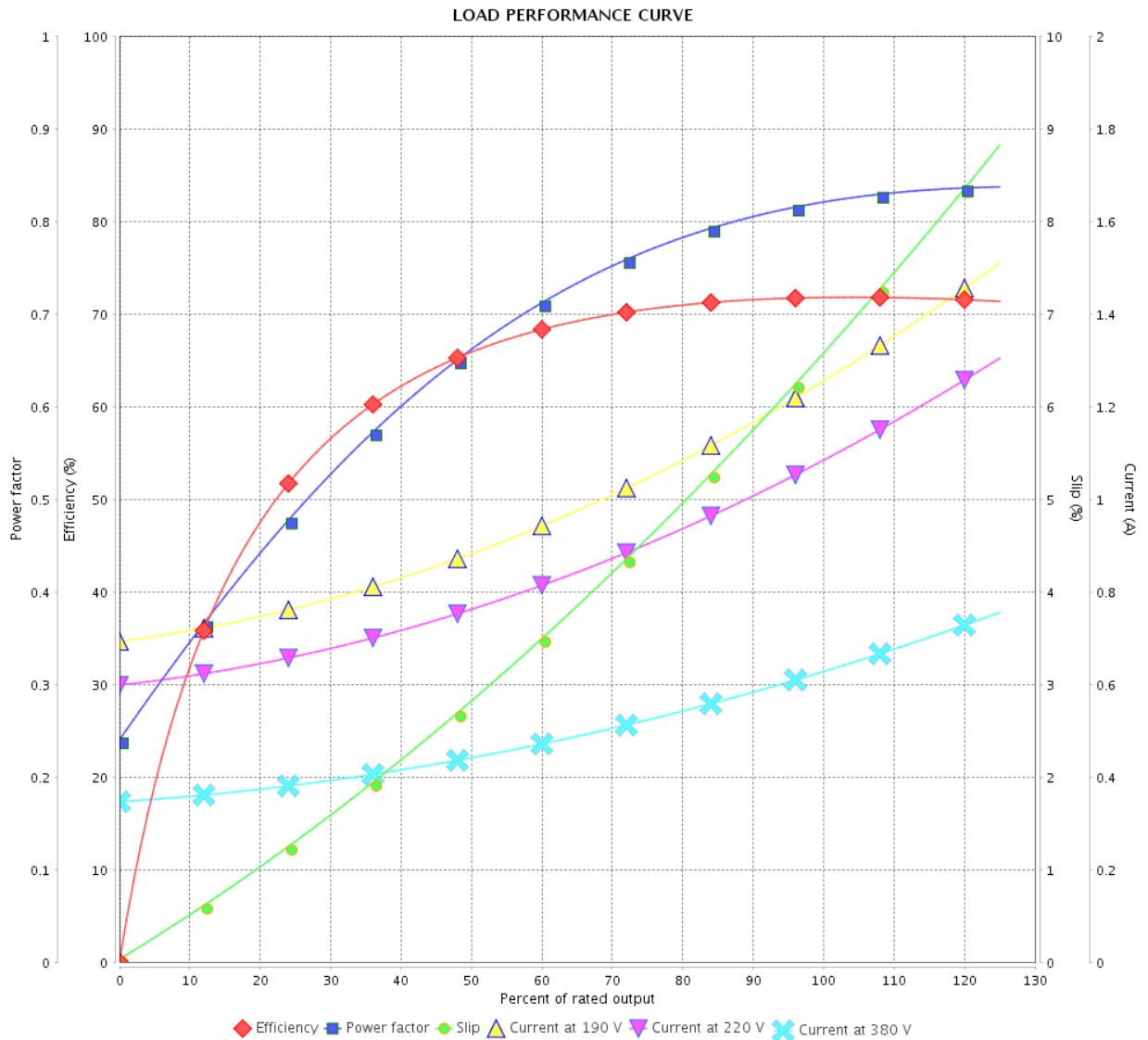
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Three Phase Induction Motor - Squirrel Cage



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Performance : 190-220/380 V 50 Hz 2P

Rated current : 1.29-1.12/0.646 A
 LRC : 5.6
 Rated torque : 0.086 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 260 %
 Rated speed : 2800 rpm

Moment of inertia (J) : 0.0006 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K

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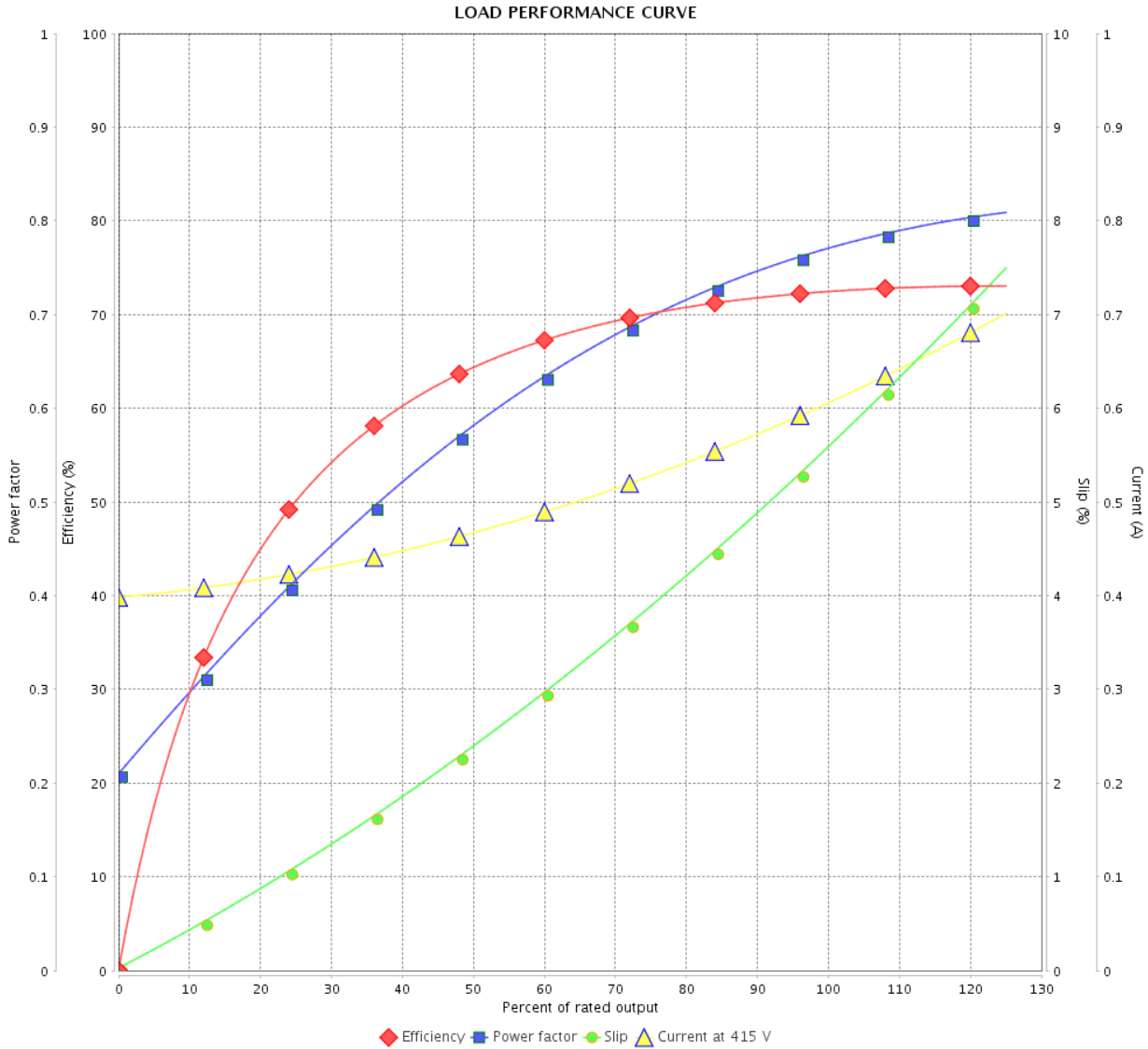
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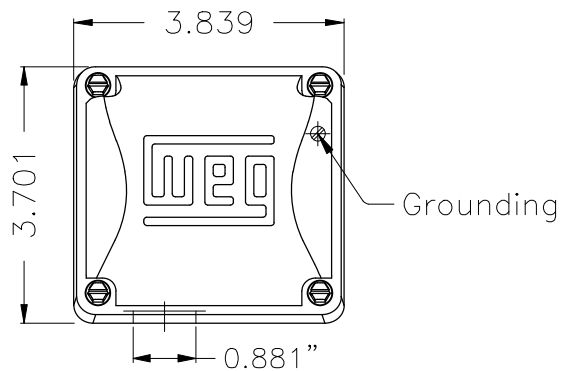
Performance : 415 V 50 Hz 2P

Rated current	: 0.624 A	Moment of inertia (J)	: 0.0006 kgm ²
LRC	: 6.3	Duty cycle	: Cont.(S1)
Rated torque	: 0.085 kgfm	Insulation class	: F
Locked rotor torque	: 290 %	Service factor	: 1.15
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 2830 rpm		

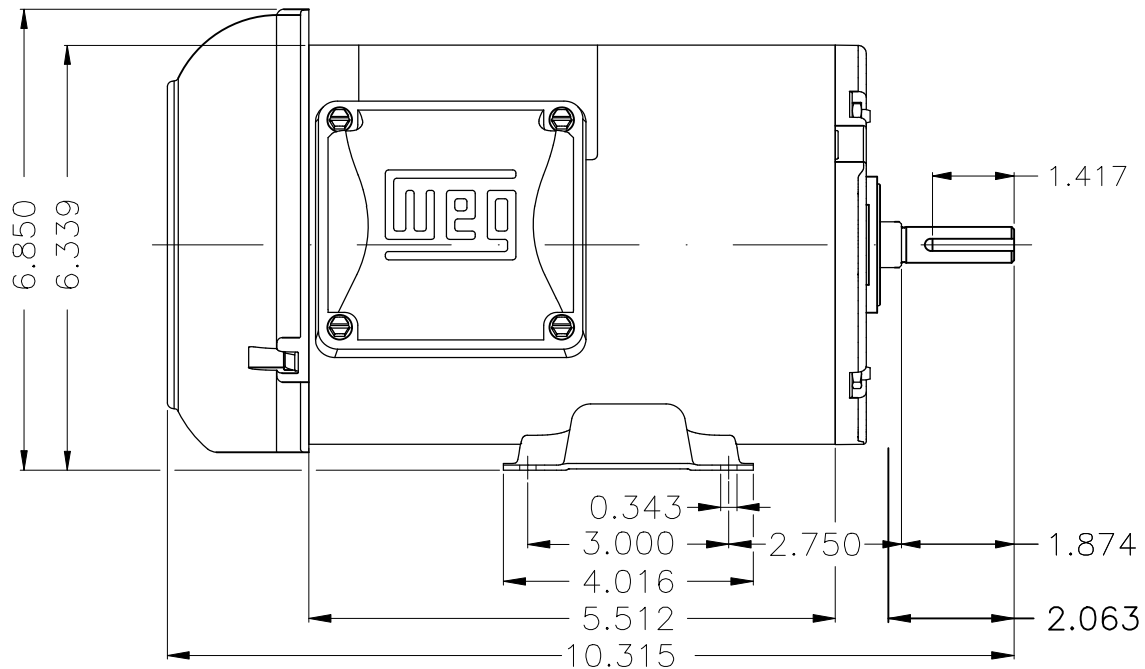
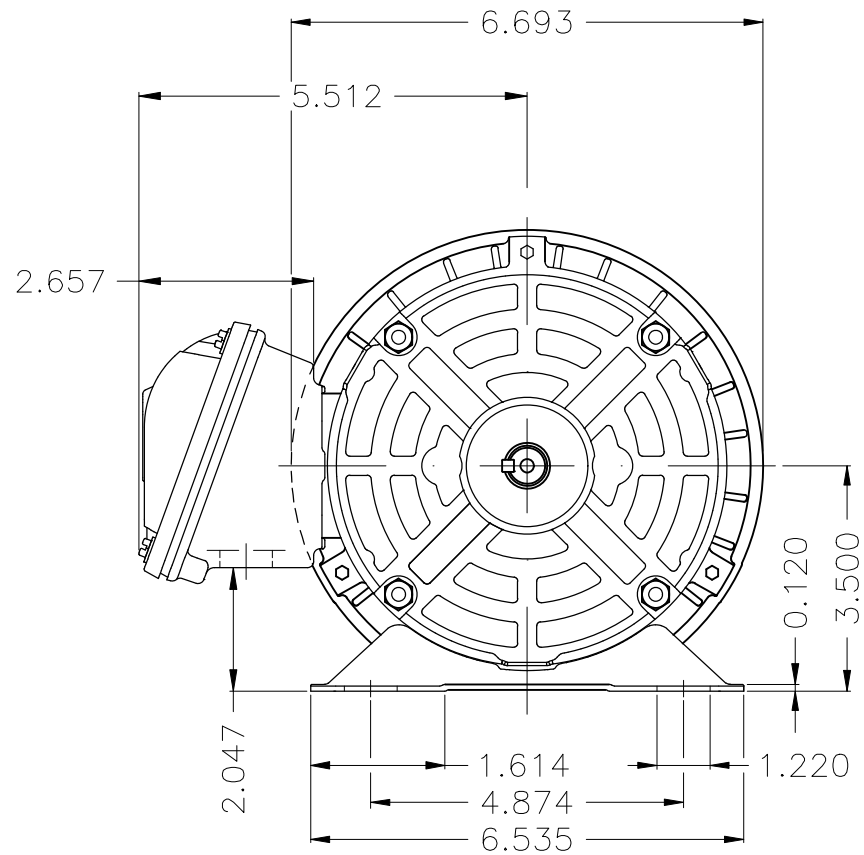
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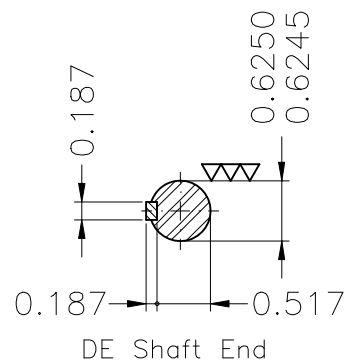
A



B



C



D

E

Color Munsell N 1 matte black						
Painting plan 207N						
Mounting F-1/B3R(D)						
				HYBRISUSER		00
ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE VER
EXECUTED	HYBRISUSER	THREE PH. MOTOR ROLLED STEEL PREM. EFF. FRAME W56 IP55 TEFC				
CHECKED						
RELEASED						
REL. DATE	WMO	Jaragua do Sul	Product Engineering	SHEET 1 / 1		

0.33 HP 02 Poles 60 Hz

A

