

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 IE3 Three-Phase Product code : 14787356

Frame	: L132M/L	Locked rotor time	: 16s (cold) 9s (hot)
Output	: 11 kW (15 HP)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: S1
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 14.9 A	Protection degree	: IP55
L. R. Amperes	: 140 A	Cooling method	: IC411 - TEFC
LRC	: 9.4	Mounting	: B35R(E)
No load current	: 7.65 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1765 rpm	Noise level <sup>2</sup>	: 58.0 dB(A)
Slip	: 1.94 %	Starting method	: Direct On Line
Rated torque	: 6.07 kgfm	Approx. weight <sup>3</sup>	: 99.0 kg
Locked rotor torque	: 260 %		
Breakdown torque	: 350 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0777 kgm <sup>2</sup>		
Design	: N		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	91.0	91.8	92.6	Max. traction	: 343 kgf
Power Factor	0.00	0.62	0.74	0.80	Max. compression	: 442 kgf

Losses at normative operating points (speed;torque), in percentage of rated output power

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
7.8	6.4	6.0	4.4	3.0	2.2	1.5

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6308 ZZ	6207 ZZ
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	0 h	0 h
Lubricant amount	:	0 g	0 g
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 IEC 60034-1.

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# LOAD PERFORMANCE CURVE

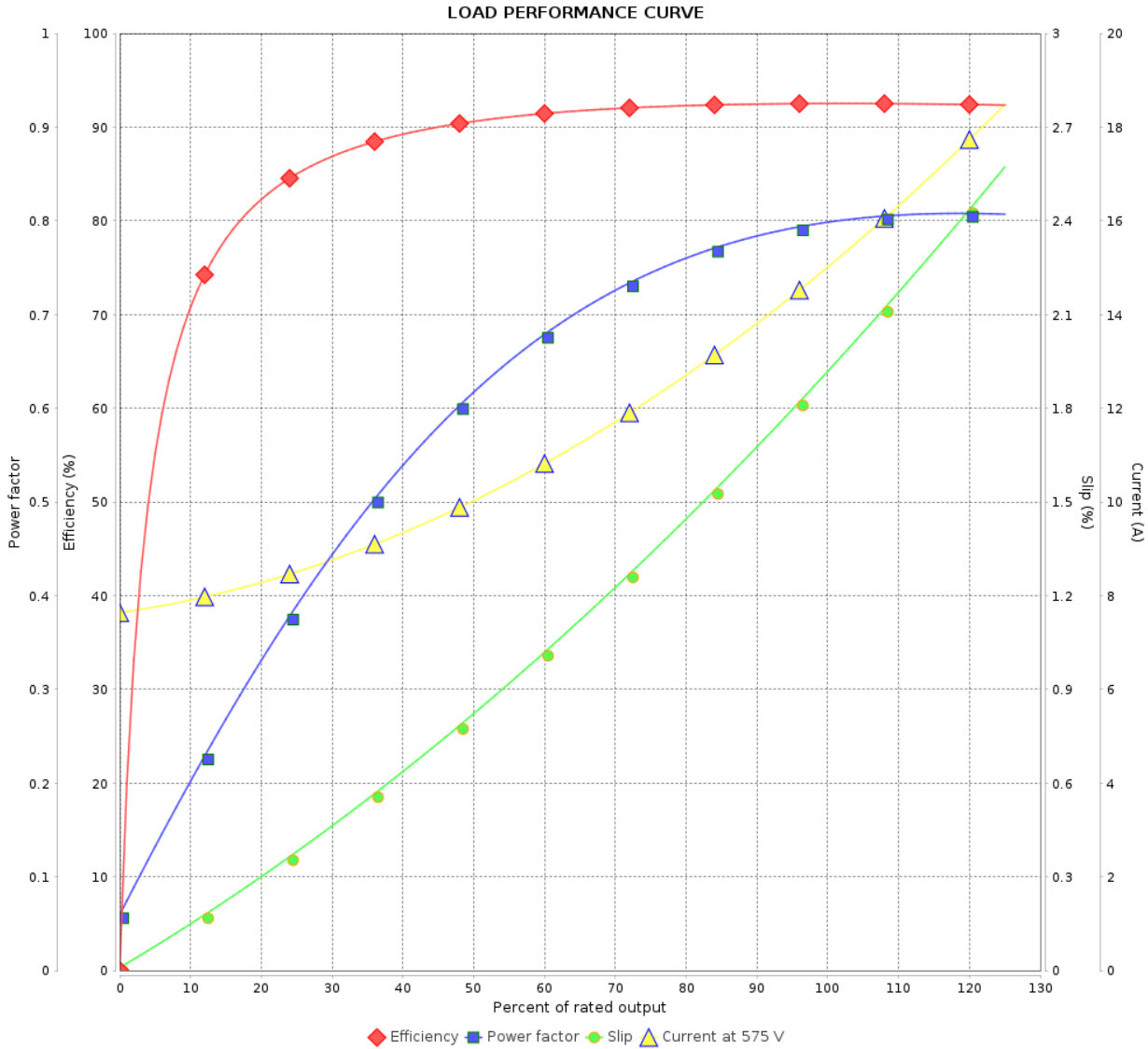
Three Phase Induction Motor - Squirrel Cage



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

Product line : W22 IE3 Three-Phase

Product code : 14787356

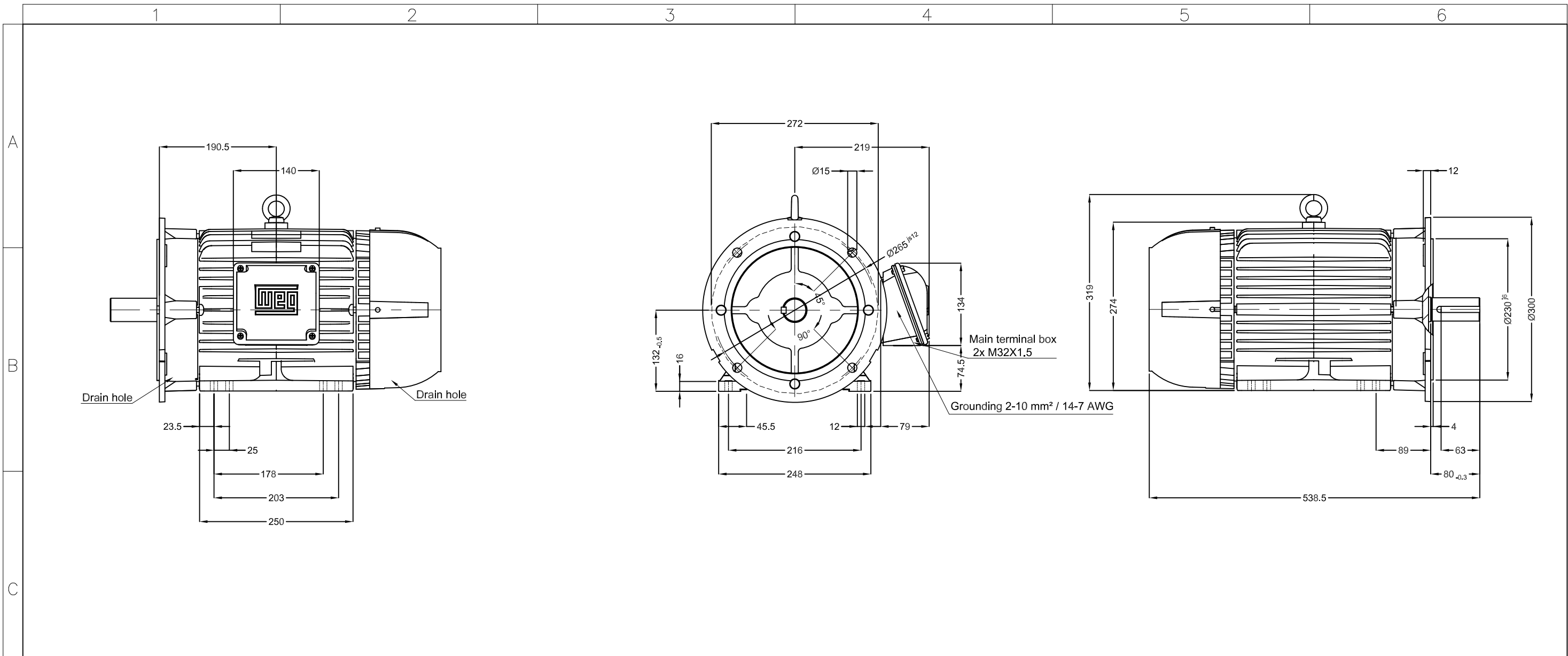


Performance : 575 V 60 Hz 4P

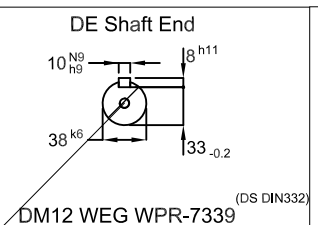
Rated current : 14.9 A  
 LRC : 9.4  
 Rated torque : 6.07 kgfm  
 Locked rotor torque : 260 %  
 Breakdown torque : 350 %  
 Rated speed : 1765 rpm

Moment of inertia (J) : 0.0777 kgm<sup>2</sup>  
 Duty cycle : S1  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : N

Rev.	Changes Summary	Performed	Checked	Date
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Color RAL 5009  
 Painting plan 207A  
 Mounting B35R(E)



11 kW 04 Poles 60 Hz										A	
ECM	LOC	SUMMARY OF MODIFICATIONS					HYBRISUSER				00
EXECUTED	HYBRISUSER	THREE PH. MOTOR W22 IE3					EXECUTED	CHECKED	RELEASED	DATE	VER
CHECKED		FRAME L132M/L IP55 TEFC									
RELEASED											
REL. DATE											
						PREVIEW		WDD 00			
						SHEET /					