

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :							
Product line		: W22 Tru-Metric IE3 Three-Phase		Product code :		11989184	
Frame	: 180M	Locked rotor time	: 19s (cold) 11s (hot)	Output	: 30 HP (22 kW)	Temperature rise	: 80 K
Poles	: 2	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	: 28.2 A	Protection degree	: IP55
L. R. Amperes	: 273 A	Cooling method	: IC411 - TEFC	LRC	: 9.7	Mounting	: B35L(E)
No load current	: 11.2 A	Rotation <sup>1</sup>	: Both (CW and CCW)	Rated speed	: 3565 rpm	Noise level <sup>2</sup>	: 72.0 dB(A)
Rated torque	: 6.11 kgfm	Starting method	: Direct On Line	Slip	: 0.97 %	Approx. weight <sup>3</sup>	: 188 kg
Locked rotor torque	: 380 %			Breakdown torque	: 380 %		
Insulation class	: F			Service factor	: 1.25		
Moment of inertia (J)	: 0.1192 kgm <sup>2</sup>			Design	: N		
Output	50%	75%	100%	Foundation loads			
Efficiency (%)	90.2	91.7	92.4	Max. traction	: 238 kgf		
Power Factor	0.71	0.81	0.85	Max. compression	: 426 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)	
7.7	5.5	4.8	4.7	2.7	2.0	1.2	
		<u>Drive end</u>		<u>Non drive end</u>			
Bearing type	:	6311 C3		6211 C3			
Sealing	:	V'Ring		V'Ring			
Lubrication interval	:	14000 h		17000 h			
Lubricant amount	:	18 g		11 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 NEMA MG-1.			
Rev.	Changes Summary			Performed	Checked	Date	
Performed by							
Checked by					Page	Revision	
Date	25/10/2024				1 / 2		

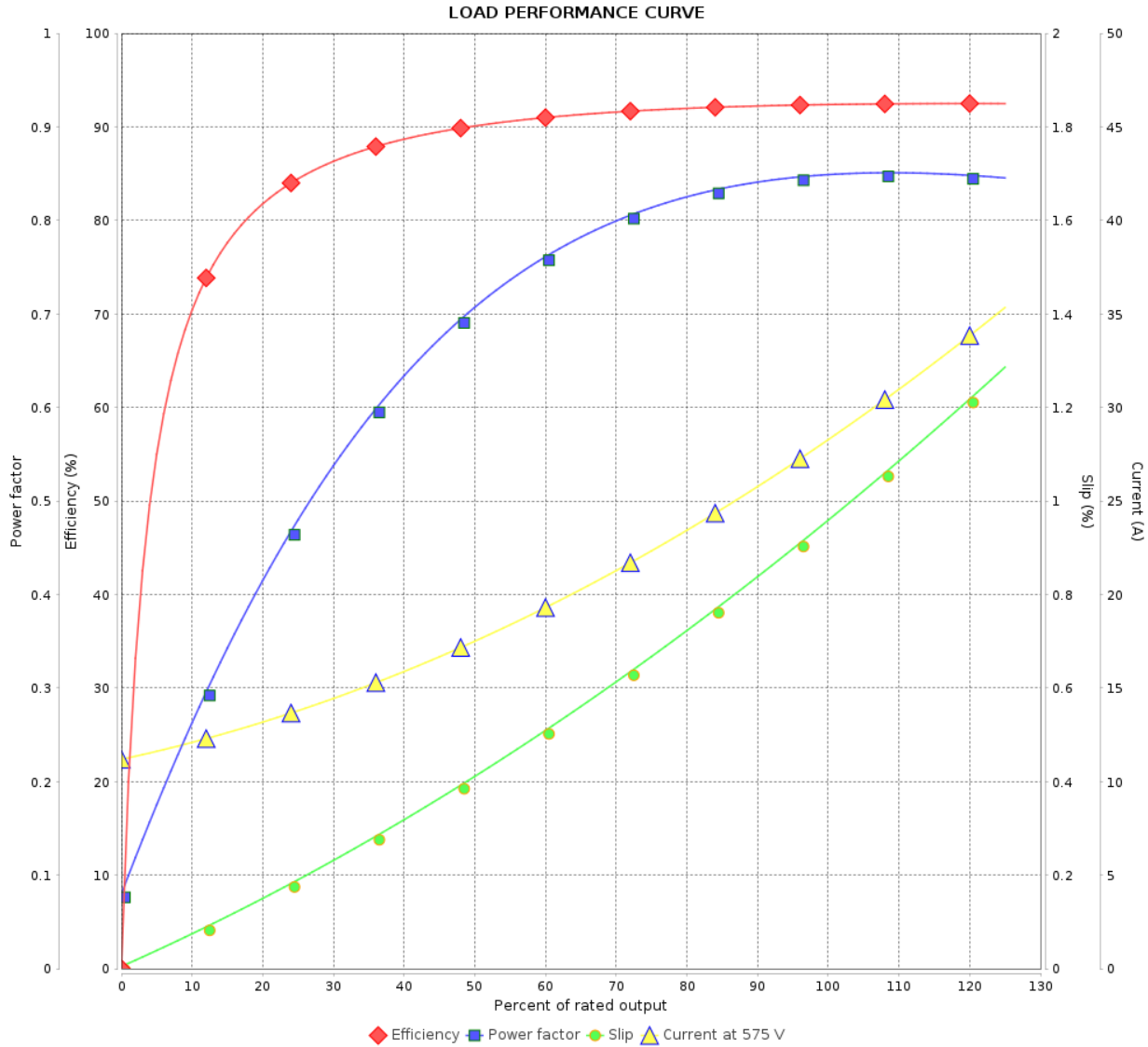
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

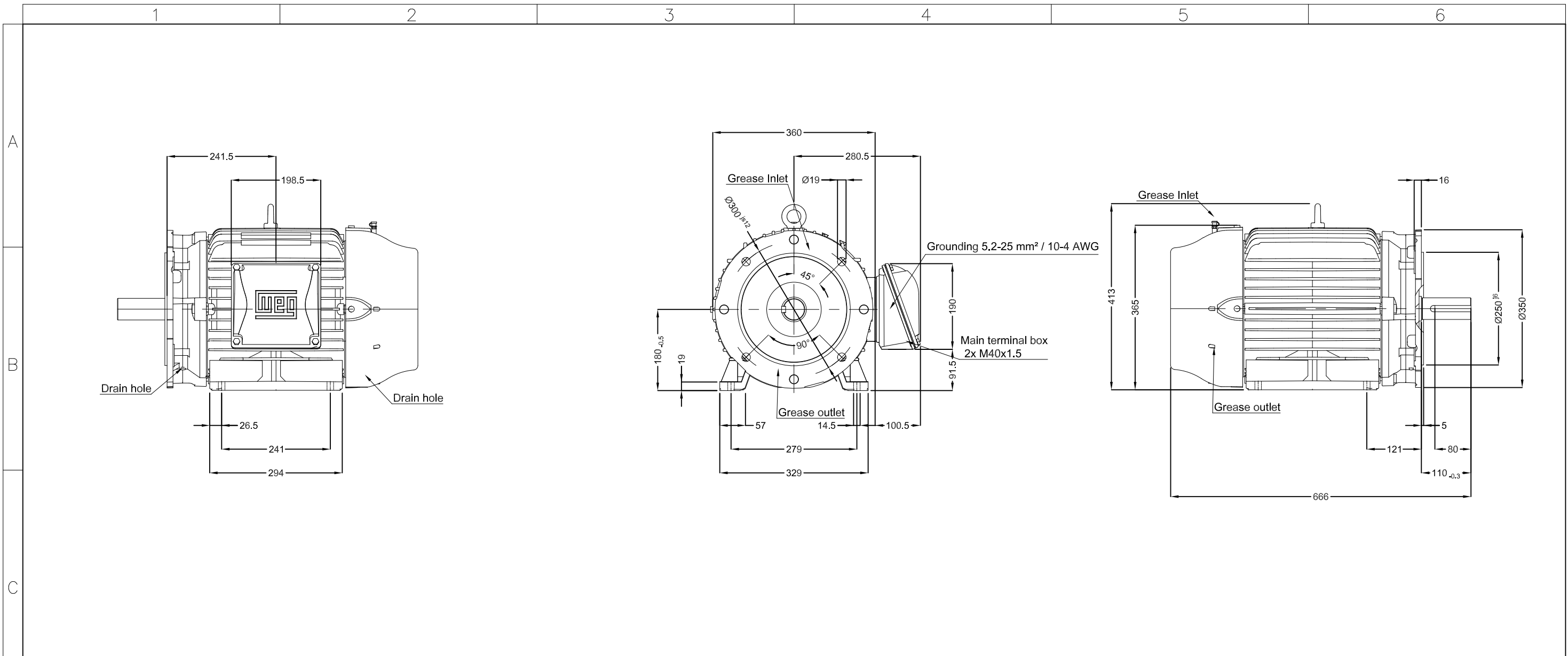
Product line : W22 Tru-Metric IE3 Three-Phase Product code : 11989184



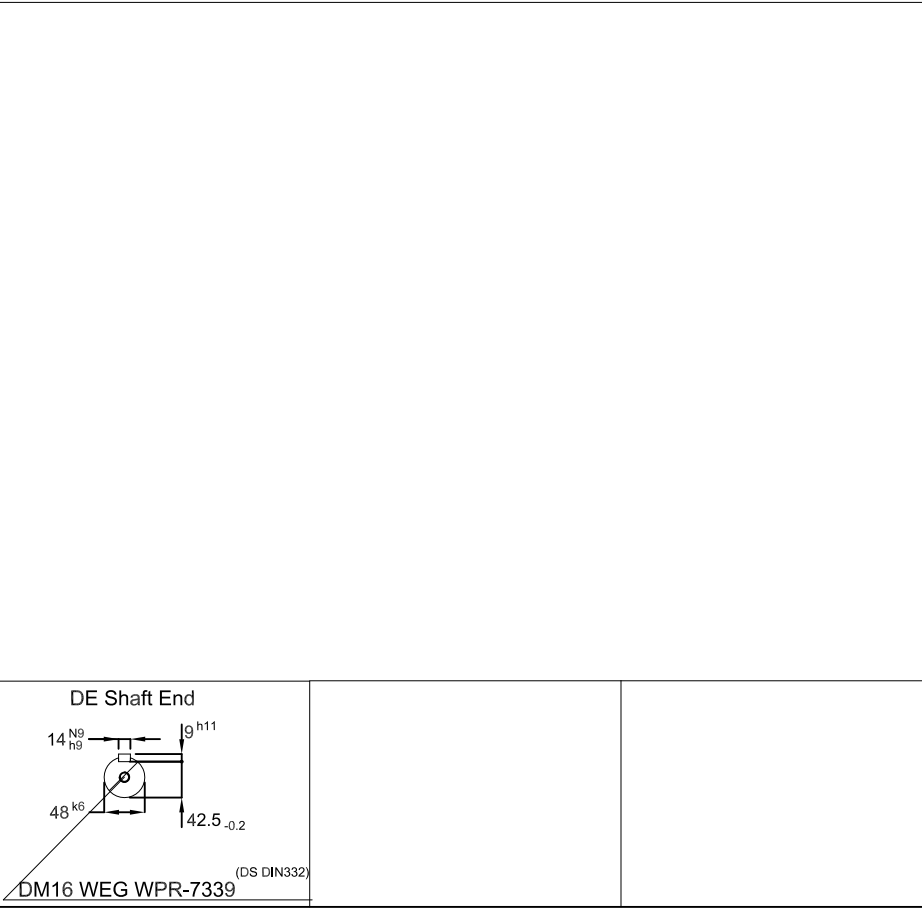
Performance : 575 V 60 Hz 2P

Rated current	: 28.2 A	Moment of inertia (J)	: 0.1192 kgm <sup>2</sup>
LRC	: 9.7	Duty cycle	: S1
Rated torque	: 6.11 kgfm	Insulation class	: F
Locked rotor torque	: 380 %	Service factor	: 1.25
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 3565 rpm	Design	: N

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 2	Revision
Checked by				
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Without vertical jackscrews  
 Color RAL 5009  
 Painting plan 203A  
 Mounting B35L(E)



30 HP 02 Poles 60 Hz										A	
HYBRISUSER										00	
ECM	LOC	SUMMARY OF MODIFICATIONS					EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	THREE PH. MOTOR W22 IE3					PREVIEW		WDD   00		
CHECKED		FRAME 180M IP55 TEFC					SHEET		/		
RELEASED							WEG				
REL. DATE											