

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer : THE INVERTER DRIVE SUPERMARKET LTD

Product line : W22 - IE3 Premium Efficiency Multivoltage Product code : 12883087

Frame	: 250S/M	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: B3R(E)
Duty cycle	: S1	Rotation <sup>1</sup>	: Both
Ambient temperature	: -20 °C to +40 °C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l	Approx. weight <sup>3</sup>	: 500 kg
Protection degree	: IP55	Moment of inertia (J)	: 1.05 kgm <sup>2</sup>
Design	: N		

Output	55 kW	55 kW	55 kW	55 kW	
Poles	4	4	4	4	
Frequency	50 Hz	50 Hz	50 Hz	60 Hz	
Rated voltage	380/660 V	400/690 V	415 V	460 V	
Rated current	105/60.5 A	101/58.6 A	100 A	89.3 A	
L. R. Amperes	757/436 A	779/451 A	819 A	759 A	
LRC	7.2	7.7	8.2	8.5 x Code K	
No load current	39.0/22.5 A	44.0/25.5 A	47.0 A	40.0 A	
Rated speed	1481 rpm	1484 rpm	1485 rpm	1786 rpm	
Slip	1.27 %	1.07 %	1.00 %	0.78 %	
Rated torque	355 Nm	354 Nm	354 Nm	294 Nm	
Locked rotor torque	260 %	280 %	300 %	330 %	
Pull up torque	220 %	235 %	255 %	280 %	
Breakdown torque	290 %	320 %	350 %	380 %	
Service factor	1.00	1.00	1.00	1.25	
Noise level <sup>2</sup>	64.0 dB(A)	64.0 dB(A)	64.0 dB(A)	68.0 dB(A)	
Locked rotor time (hot)	14 s	13 s	12 s	15 s	
Locked rotor time (cold)	25 s	23 s	22 s	27 s	
Efficiency (%)	50%	94.0	94.0	93.5	94.1
	75%	94.5	94.5	94.5	95.0
	100%	94.6	94.6	94.6	95.4
Power Factor	50%	0.71	0.67	0.62	0.65
	75%	0.82	0.78	0.75	0.76
	100%	0.84	0.83	0.81	0.81

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

Losses (%)	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)	
	Drive end	Non drive end	Drive end	Non drive end	Drive end	Non drive end	Drive end	Non drive end	Drive end	Non drive end	Drive end	Non drive end	Drive end	Non drive end
	4.6	4.8	3.3	3.5	2.8	2.9	3.0	3.1	1.8	1.9	1.4	1.5	0.9	0.9

Bearing type	6314-C3	6314-C3	Foundation loads	
Lubrication interval	14000 h	14000 h	Max. traction	: 9750 N
Lubricant amount	27 g	27 g	Max. compression	: 14655 N
Lubricant type	MOBIL POLYREX EM		Load type	: -
			Load torque	: -
			Load inertia (J=GD <sup>2</sup> /4)	: -

Notes  
See notes on page 2.

Rev.	Changes Summary	Rev.	Checked	Date
Performed by	jhodson	1777240087		
Checked by	AUTOMATICO	Page	Rev.	
Date	11/11/2025	1 / 2	0	

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### Thermal protection

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

### Notes

### Standards

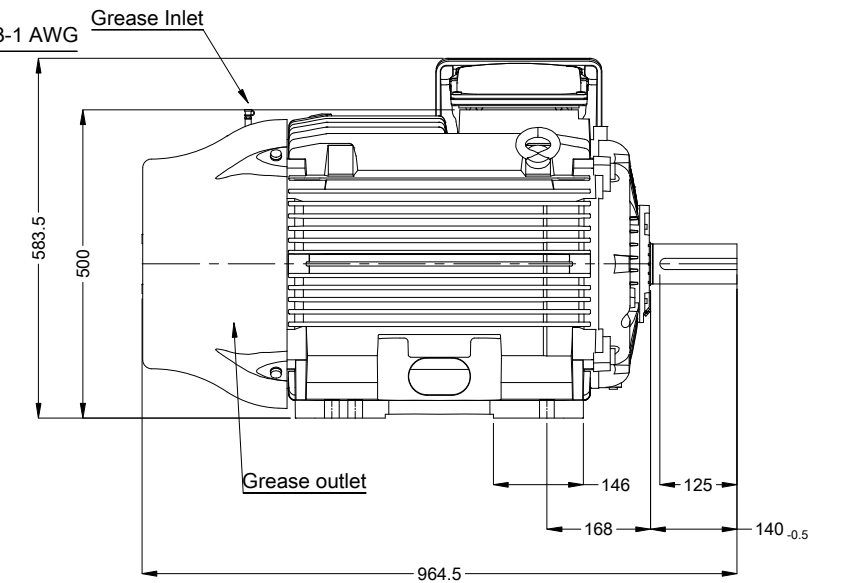
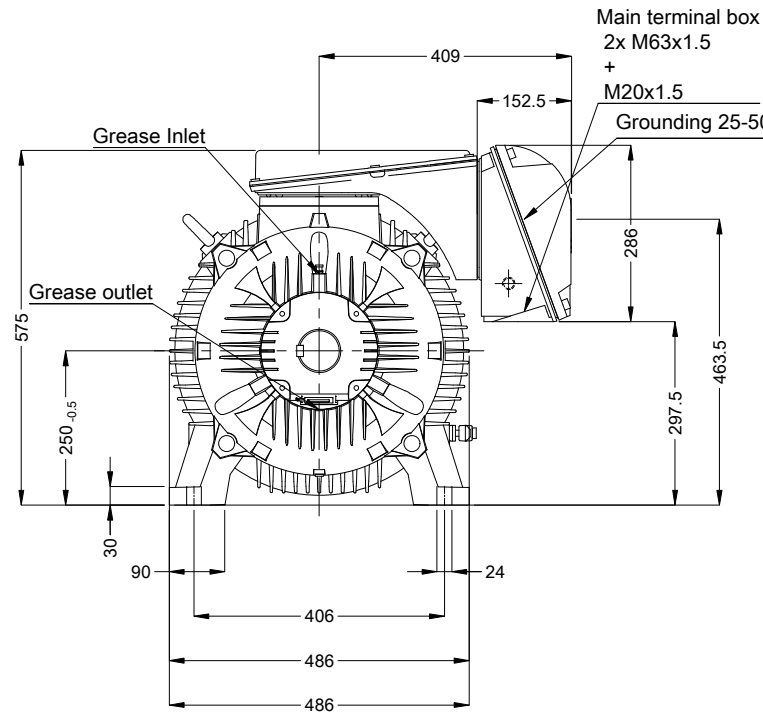
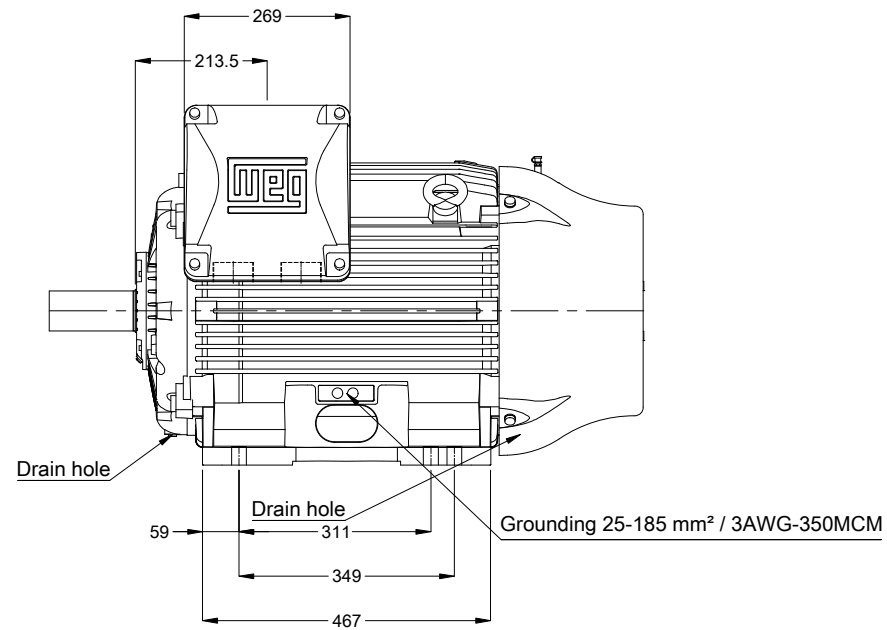
Specification	: IEC 60034-1	Vibration	: IEC 60034-14
Test	: IEC 60034-2	Tolerance	: IEC 60034-1
Noise	: IEC 60034-9		

This revision replaces and cancel the previous one, which must be eliminated.

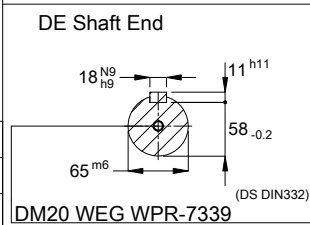
- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight, subject to be changed after manufacturing process.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in IEC 60034-1.

Rev.	Changes Summary	Rev.	Checked	Date
Performed by	jhodson			1777240087
Checked by	AUTOMATICO	Page	Rev.	
Date	11/11/2025	2 / 2	0	




Color RAL 5009  
 Painting plan 203A  
 Mounting B3R(E)



55 kW 04 Poles 50 Hz A

THE INVERTER DRIVE SUPERMARKET LTD

Scale 1 : 12

ECM	LOC	SUMMARY OF MODIFICATIONS	PIRWUSER					00
EXECUTED	PIRWUSER		EXECUTED	CHECKED	RELEASED	DATE	VER	
CHECKED		THREE PH. MOTOR W22 IE3 FRAME 250S/M IP55 TEFC	PREVIEW		WDD 00			
RELEASED			[Operational]	SHEET	1 / 1			
REL. DATE	WEG REDDITCH							