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	Rotation¹	: Both
Ambient temperature	: -20 °C to +40 °C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l	Approx. weight³	: 500 kg
Protection degree	: IP55	Moment of inertia (J)	: 1.05 kgm²
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 level²		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)	4.6	4.8	4.8	4.6
	P2(0,5;1,0)	3.3	3.5	3.5	3.3
	P3(0,25;1,0)	2.8	2.9	2.9	2.8
	P4(0,9;0,5)	3.0	3.1	3.1	3.0
	P5(0,5;0,5)	1.8	1.9	1.9	1.8
	P6(0,5;0,25)	1.4	1.5	1.5	1.4
	P7(0,25;0,25)	0.9	0.9	0.9	0.9

	Drive end	Non drive end
Bearing type	6314-C3	6314-C3
Lubrication interval	14000 h	14000 h
Lubricant amount	27 g	27 g
Lubricant type	MOBIL POLYREX EM	

Foundation loads	
Max. traction	: 9750 N
Max. compression	: 14655 N
Load type	: -
Load torque	: -
Load inertia (J=GD²/4)	: -

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		

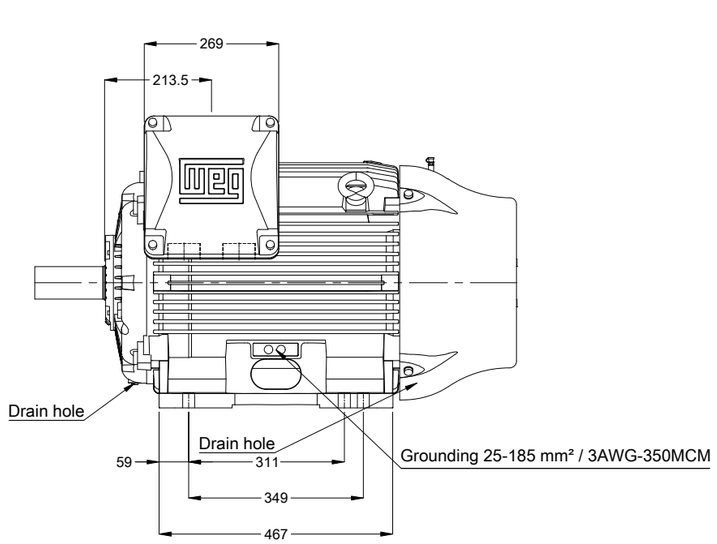
This revision replaces and cancel the previous one, which must be eliminated.
(1) Looking the motor from the shaft end.
(2) Measured at 1m and with tolerance of +3dB(A).
(3) Approximate weight, subject to be changed after manufacturing process.

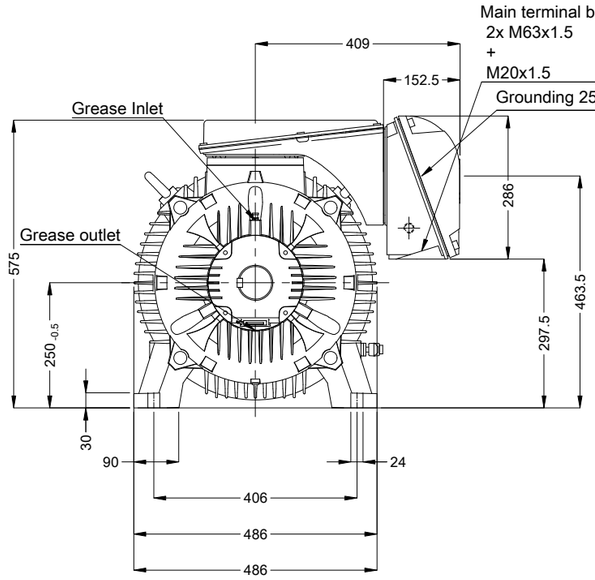
These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in IEC 60034-1.

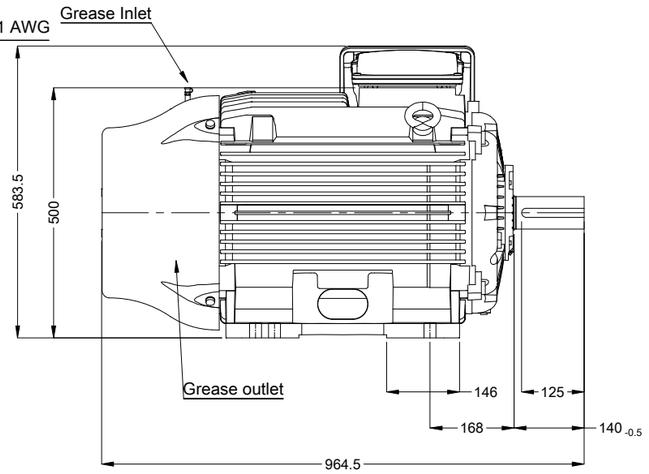
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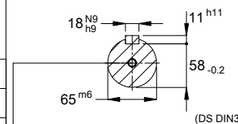
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DE Shaft End



DM20 WEG WPR-7339

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	EXECUTED	CHECKED	RELEASED	DATE	VER
			PIRWBUSER				00

EXECUTED	PIRWBUSER	THREE PH. MOTOR W22 IE3	PREVIEW
CHECKED		FRAME 250S/M IP55 TEFC	WDD 00
RELEASED			
REL. DATE		WEG REDDITCH [Operational]	SHEET 1 / 1

Dimensions in mm

A3

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