DATA SHEET
Three Phase Induction Motor - Squirrel Cage

Customer	: THE INVERTER DRIVE SUPERMARKET LTD
Product line	: W22 - IE3 Premium Efficiency Multitensão

Frame	: L100L	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: B35L(D)
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	: 42.6 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0120 kgm²
Design	: N		

Output		3 kW (4 HP)	3 kW (4 HP)	3 kW (4 HP)	3.6 kW (4.9 HP)	3.6 kW (4.9 HP)	3 kW (4 HP)
Poles		4	4	4	4	4	4
Frequency		50 Hz	50 Hz	50 Hz	60 Hz	60 Hz	60 Hz
Rated voltage		380/660 V	400/690 V	415 V	440 V	460 V	460 V
Rated current		6.26/3.60 A	6.15/3.57 A	6.07 A	6.45 A	6.21 A	5.33 A
L. R. Amperes		48.8/28.1 A	48.0/27.8 A	50.4 A	50.3 A	51.5 A	51.2 A
LRC		7.8	7.8	8.3	7.8	8.3	9.6 x Code M
No load current		3.00/1.73 A	3.30/1.91 A	3.60 A	2.80 A	3.00 A	3.00 A
Rated speed		1430 rpm	1440 rpm	1445 rpm	1730 rpm	1735 rpm	1740 rpm
Slip		4.67 %	4.00 %	3.67 %	3.89 %	3.61 %	3.33 %
Rated torque		20.0 Nm	19.9 Nm	19.8 Nm	19.9 Nm	19.8 Nm	16.5 Nm
Locked rotor torque		350 %	390 %	430 %	330 %	370 %	460 %
Pull up torque		298 %	332 %	366 %	280 %	315 %	391 %
Breakdown torque		280 %	320 %	360 %	280 %	320 %	390 %
Service factor		1.00	1.00	1.00	1.00	1.00	1.25
Noise level²		53.0 dB(A)	53.0 dB(A)	53.0 dB(A)	54.0 dB(A)	54.0 dB(A)	54.0 dB(A)
Locked rotor time (hot)		15 s	15 s	15 s	12 s	15 s	15 s
Locked rotor time (cold)		27 s	27 s	27 s	22 s	27 s	27 s
Efficiency (%)	50%	87.7	87.0	86.3	88.2	87.8	84.0
	75%	88.0	88.0	87.7	88.6	88.7	86.5
	100%	87.7	88.0	88.1	88.2	88.7	89.5
Power Factor	50%	0.65	0.60	0.56	0.68	0.64	0.59
	75%	0.77	0.73	0.70	0.79	0.76	0.71
	100%	0.83	0.80	0.78	0.83	0.82	0.79

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

Losses (%)	P1(0,9;1,0)	13.6	13.2	13.1	13.0	12.4	11.4
	P2(0,5;1,0)	12.3	11.9	11.8	11.7	11.1	10.3
	P3(0,25;1,0)	11.9	11.6	11.5	11.4	10.9	10.0
	P4(0,9;0,5)	5.9	5.8	5.7	5.6	5.4	5.0
	P5(0,5;0,5)	4.4	4.3	4.3	4.2	4.0	3.7
	P6(0,5;0,25)	2.7	2.7	2.6	2.6	2.5	2.3
	P7(0,25;0,25)	2.0	2.0	2.0	2.0	1.9	1.7

	Drive end	Non drive end
Bearing type	6206-ZZ	6205-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	MOBIL POLYREX EM	

Foundation loads	
Max. traction	: 1576 N
Max. compression	: 1994 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		1555171308	
Checked by	AUTOMATICO		Page	Rev.
Date	01/07/2024		1 / 2	0

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Notes

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

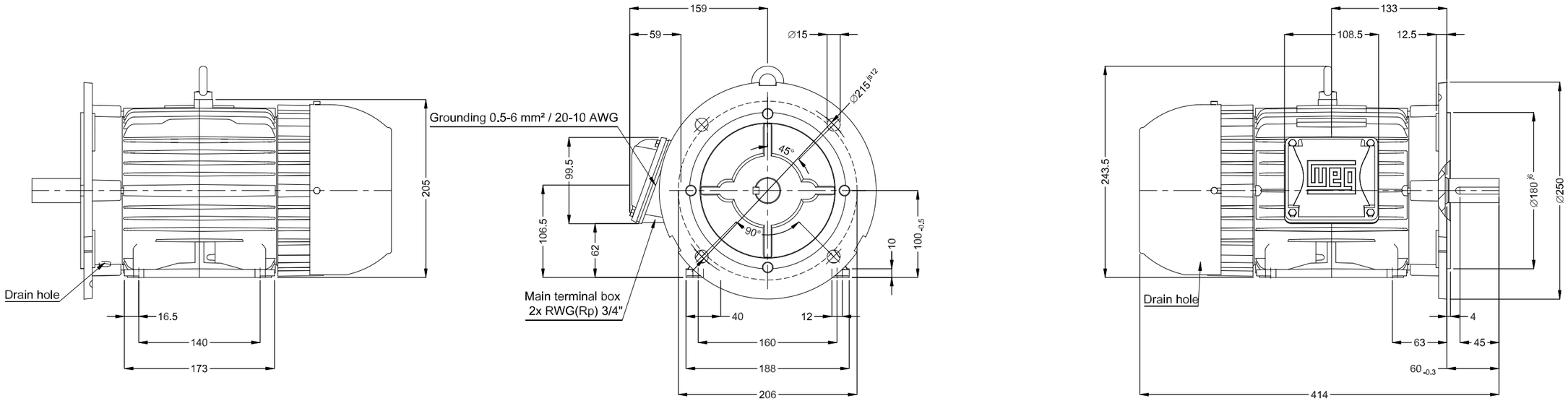
This revision replaces and cancel the previous one, which must be eliminated.
(1) Looking the motor from the shaft end.
(2) Measured at 1m and with tolerance of +3dB(A).
(3) Approximate weight, subject to be changed after manufacturing process.

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

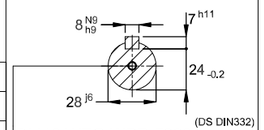
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DE Shaft End



DM10 WEG WPR-7339

Color RAL 6002

Painting plan 207A

Mounting B35L(D)

3 kW (4 HP) 04 Poles 50 Hz | A

THE INVERTER DRIVE SUPERMARKET LTD

Scale 1 : 5

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
			PIRWBUSER				00

EXECUTED	PIRWBUSER
CHECKED	
RELEASED	
REL. DATE	

THREE PH. MOTOR W22 IE3

FRAME L100L IP55 TEFC

PREVIEW

WDD 00

SHEET /

Dimensions in mm

A3

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