DATA SHEET
Three Phase Induction Motor - Squirrel Cage

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

Frame	: L80	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: B34T
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	: 15.5 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0037 kgm²
Design	: N		

Output		0.55 kW	0.55 kW	0.55 kW	0.55 kW
Poles		6	6	6	6
Frequency		50 Hz	50 Hz	50 Hz	60 Hz
Rated voltage		220/380 V	230/400 V	240/415 V	460 V
Rated current		2.59/1.50 A	2.63/1.51 A	2.68/1.55 A	1.37 A
L. R. Amperes		13.0/7.50 A	13.7/7.85 A	14.5/8.37 A	8.49 A
LRC		5.0	5.2	5.4	6.2 x Code L
No load current		1.81/1.05 A	2.00/1.15 A	2.25/1.30 A	1.05 A
Rated speed		940 rpm	945 rpm	950 rpm	1155 rpm
Slip		6.00 %	5.50 %	5.00 %	3.75 %
Rated torque		5.59 Nm	5.56 Nm	5.53 Nm	4.55 Nm
Locked rotor torque		270 %	300 %	340 %	390 %
Pull up torque		230 %	255 %	285 %	330 %
Breakdown torque		270 %	310 %	340 %	390 %
Service factor		1.00	1.00	1.00	1.25
Noise level²		43.0 dB(A)	43.0 dB(A)	43.0 dB(A)	47.0 dB(A)
Locked rotor time (hot)		27 s	24 s	22 s	24 s
Locked rotor time (cold)		49 s	43 s	40 s	43 s
Efficiency (%)	50%	73.4	70.5	67.9	71.9
	75%	76.7	75.2	74.0	77.0
	100%	77.2	77.2	77.2	80.0
Power Factor	50%	0.49	0.45	0.42	0.42
	75%	0.63	0.58	0.55	0.54
	100%	0.72	0.68	0.64	0.63
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1(0,9;1,0)	28.3	28.3	28.3	24.0
	P2(0,5;1,0)	25.9	25.9	25.9	21.9
	P3(0,25;1,0)	27.2	27.2	27.2	23.0
	P4(0,9;0,5)	16.6	16.6	16.6	14.1
	P5(0,5;0,5)	12.8	12.8	12.8	10.8
	P6(0,5;0,25)	10.5	10.5	10.5	8.9
	P7(0,25;0,25)	7.9	7.9	7.9	6.7

	Drive end	Non drive end
Bearing type	6204-ZZ	6203-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	MOBIL POLYREX EM	

Foundation loads	
Max. traction	: 525 N
Max. compression	: 677 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	1693668961	
Checked by	AUTOMATICO	Page	Rev.
Date	08/05/2025	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		

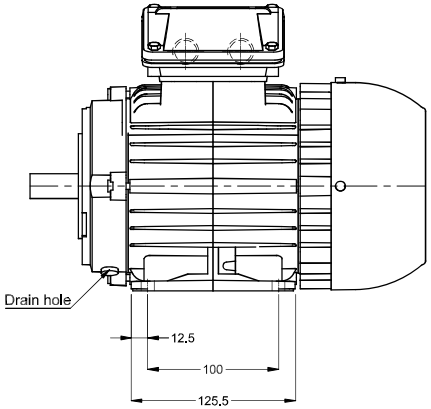
This revision replaces and cancel the previous one, which must be eliminated.
(1) Looking the motor from the shaft end.
(2) Measured at 1m and with tolerance of +3dB(A).
(3) Approximate weight, subject to be changed after manufacturing process.

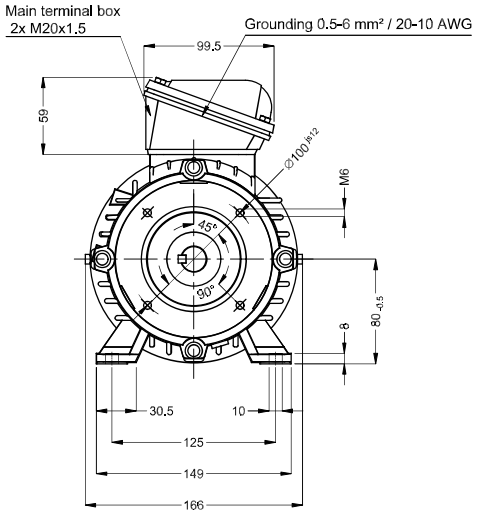
These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in IEC 60034-1.

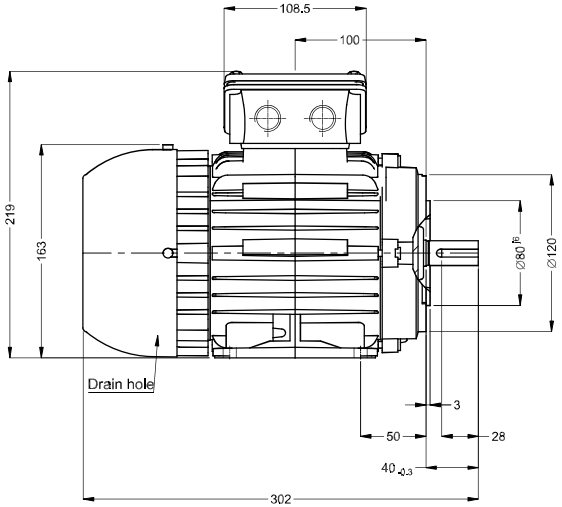
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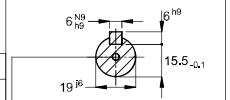






Color RAL 5009
Painting plan 207A
Mounting B34T

DE Shaft End



DM6 WEG WPR-7339

0.55 kW 06 Poles 50 Hz | A

THE INVERTER DRIVE SUPERMARKET LTD

Scale 1 : 4

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

EXECUTED	PIRWBUSER
CHECKED	
RELEASED	
REL. DATE	

THREE PH. MOTOR W22 IE3
FRAME L80 IP55 TEFC

PREVIEW
WDD 00

WEG REDDITCH [Operational]
SHEET 1 / 1

Dimensions in mm

A3

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