

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : QUANTUM CONTROLS

Product line : W22 - IE4 Super Premium Efficiency
(Multivoltage)

Frame	: 315S/M	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: B3T
Duty cycle	: S1	Rotation ¹	: Both
Ambient temperature	: -20 °C to +40 °C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l	Approx. weight ³	: 1044 kg
Protection degree	: IP55	Moment of inertia (J)	: 2.56 kgm ²
Design	: NE		

Output	132 kW	132 kW	132 kW	132 kW
Poles	2	2	2	2
Frequency	50 Hz	50 Hz	50 Hz	60 Hz
Rated voltage	380/660 V	400/690 V	415 V	460 V
Rated current	234/135 A	225/130 A	219 A	197 A
L. R. Amperes	1780/1025 A	1868/1083 A	1975 A	1808 A
LRC	7.6	8.3	9.0	9.2 x Code K
No load current	63.0/36.3 A	67.0/38.8 A	72.0 A	64.0 A
Rated speed	2981 rpm	2983 rpm	2985 rpm	3586 rpm
Slip	0.63 %	0.57 %	0.50 %	0.39 %
Rated torque	423 Nm	423 Nm	422 Nm	352 Nm
Locked rotor torque	240 %	270 %	280 %	300 %
Pull up torque	200 %	230 %	235 %	255 %
Breakdown torque	280 %	330 %	340 %	360 %
Service factor	1.00	1.00	1.00	1.00
Noise level ²	77.0 dB(A)	77.0 dB(A)	77.0 dB(A)	81.0 dB(A)
Locked rotor time (hot)	45 s	42 s	39 s	50 s
Locked rotor time (cold)	81 s	76 s	70 s	90 s
Efficiency (%)	50%	95.1	95.1	95.0
	75%	95.9	95.9	95.0
	100%	96.2	96.2	95.8
Power Factor	50%	0.81	0.79	0.78
	75%	0.87	0.85	0.85
	100%	0.89	0.88	0.88

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

Losses (%)	P1(0,9;1,0)	3.9	3.9	3.9	4.3
	P2(0,5;1,0)	2.7	2.7	2.7	3.0
	P3(0,25;1,0)	2.2	2.2	2.2	2.5
	P4(0,9;0,5)	2.4	2.4	2.4	2.7
	P5(0,5;0,5)	1.3	1.3	1.3	1.5
	P6(0,5;0,25)	1.0	1.0	1.0	1.1
	P7(0,25;0,25)	0.5	0.5	0.5	0.6

Bearing type	Drive end 6314-C3	Non drive end 6314-C3	Foundation loads	
Lubrication interval	5000 h	5000 h	Max. traction	: 6189 N
Lubricant amount	27 g	27 g	Max. compression	: 16433 N
Lubricant type	MOBIL POLYREX EM		Load type	: -
			Load torque	: -
			Load inertia (J=GD ² /4)	: -

Notes
See notes on page 2.

Rev.	Changes Summary		Rev.	Checked	Date
Performed by	ghodgetts	1751181124			
Checked by	AUTOMATICO				
Date	11/09/2025				
			Page	Rev.	
			1 / 2	0	

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : QUANTUM CONTROLS

Product line : W22 - IE4 Super Premium Efficiency (Multivoltage)

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

Space heater information
Voltage: 110-127/200-240 V
Output: 117-156/97-139 W

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.

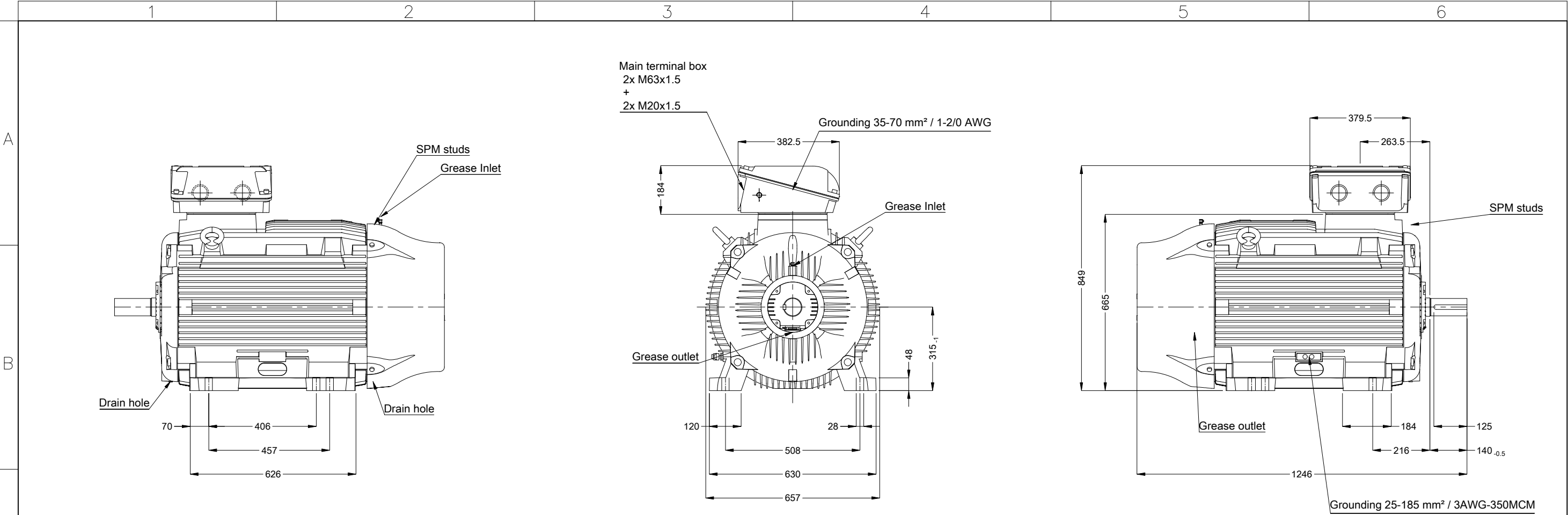
(1) Looking the motor from the shaft end.

(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	ghodgetts		1751181124		
Checked by	AUTOMATICO		Page	Rev.	
Date	11/09/2025		2 / 2	0	



D															132 kW 02 Poles 50 Hz		A											
					QUANTUM CONTROLS																							
									Scale				1 : 15															
									PIRWBUSER						00													
					ECM		LOC		SUMMARY OF MODIFICATIONS				EXECUTED		CHECKED		RELEASED		DATE		VER							
E	Space heaters 110-127 V / 200-240 V		DE Shaft End DM20 WEG WPR-7339		Vibration sensor studs detail		EXECUTED		PIRWBUSER				THREE PH. MOTOR W22 IE4 FRAME 315S/M IP55 TEFC				PREVIEW											
	CHECKED																											
	RELEASED																											
	Color RAL 5009						Painting plan 222P		Mounting B3T		REL. DATE				WEG		REDDITCH						[Operational]		SHEET		1 / 1	