

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	: B5T
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		

	132 kW	132 kW	132 kW	132 kW
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)		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
	3.9	3.9	2.7	2.7	2.2	2.2	2.4	2.4	1.3	1.3	1.0	1.0	0.5	0.5
	4.3	3.0	2.5	2.7	1.5	1.1	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	1751183566		
Checked by	AUTOMATICO	Page	Rev.	
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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

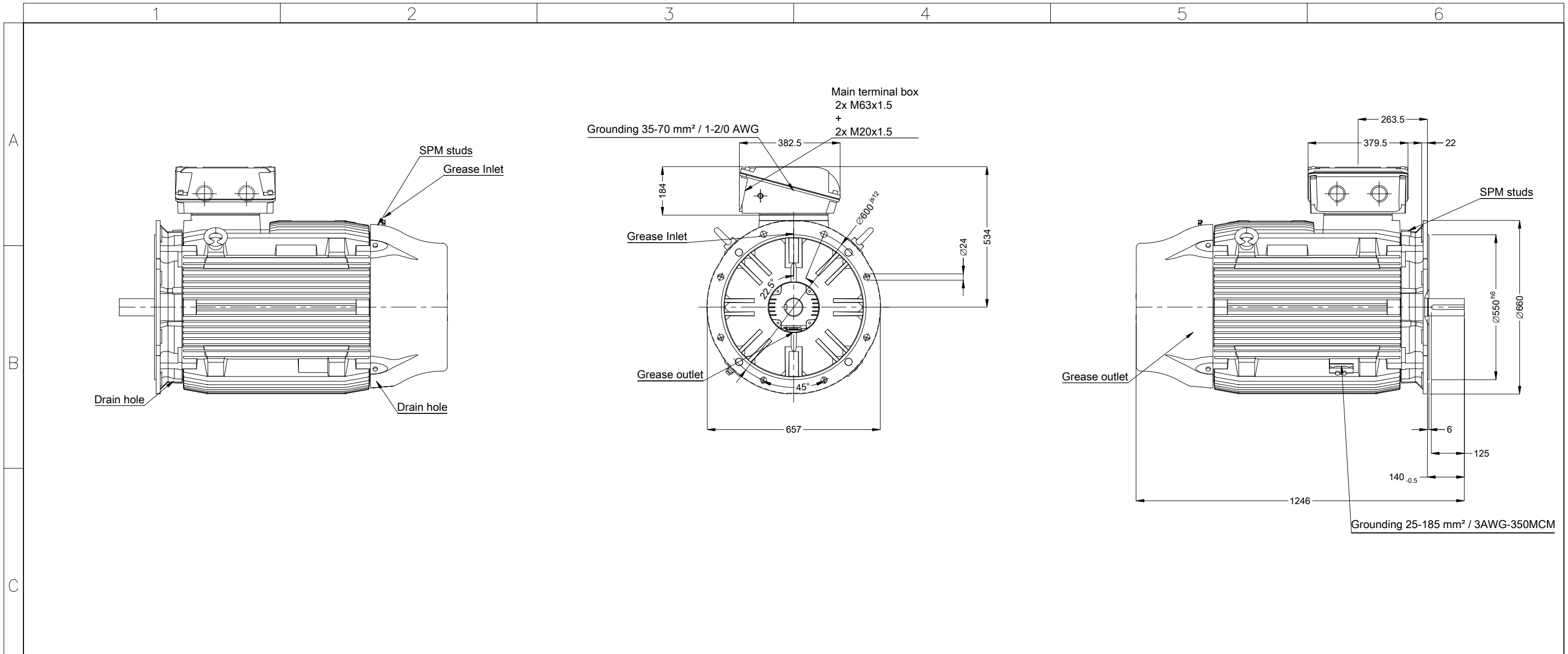
Specification	: IEC 60034-1	Vibration	: IEC 60034-14
Test	: IEC 60034-2	Tolerance	: IEC 60034-1
Noise	: IEC 60034-9		

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.

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D			132 kW 02 Poles 50 Hz		A
	QUANTUM CONTROLS				
E					Scale 1 : 15
					PIRWUSER 00
		ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED CHECKED RELEASED DATE VER
		EXECUTED	PIRWUSER	THREE PH. MOTOR W22 IE4 FRAME 315S/M IP55 TEFC	PREVIEW WDD 00
		CHECKED			
		RELEASED		WEG REDDITCH	SHEET 1 / 1
		REL. DATE			

- Space heaters 110-127 V / 200-240 V
- DE grounding brush holder kit
- SPM studs
- Sealing - Viton oil seal ring
- NDE endshield with electrically insulated bearing hub
- Color RAL 5009
- Painting plan 222P
- Mounting B5T

