

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	: 999 kg
Protection degree	: IP55	Moment of inertia (J)	: 3.21 kgm ²
Design	: NE		

	132 kW	132 kW	132 kW	132 kW
Output	132 kW	132 kW	132 kW	132 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	245/141 A	238/138 A	235 A	209 A
L. R. Amperes	1640/944 A	1738/1008 A	1834 A	1738 A
LRC	6.7	7.3	7.8	8.3 x Code J
No load current	89.0/51.2 A	98.0/56.8 A	106 A	91.0 A
Rated speed	1489 rpm	1490 rpm	1491 rpm	1792 rpm
Slip	0.73 %	0.67 %	0.60 %	0.44 %
Rated torque	847 Nm	846 Nm	846 Nm	704 Nm
Locked rotor torque	240 %	270 %	290 %	310 %
Pull up torque	200 %	230 %	245 %	260 %
Breakdown torque	260 %	290 %	310 %	320 %
Service factor	1.00	1.00	1.00	1.00
Noise level ²	71.0 dB(A)	71.0 dB(A)	71.0 dB(A)	75.0 dB(A)
Locked rotor time (hot)	34 s	30 s	28 s	37 s
Locked rotor time (cold)	61 s	54 s	50 s	67 s
Efficiency (%)	50%	95.7	95.4	95.1
	75%	96.2	96.1	95.9
	100%	96.4	96.4	96.4
Power Factor	50%	0.72	0.68	0.64
	75%	0.81	0.78	0.76
	100%	0.85	0.83	0.81

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	3.0	3.0	2.6	2.6	2.2	2.2	1.4	1.4	1.0	1.0	0.6	0.6

Bearing type	Drive end 6319-C3	Non drive end 6316-C3	Foundation loads	
Lubrication interval	11000 h	13000 h	Max. traction	: 15747 N
Lubricant amount	45 g	34 g	Max. compression	: 25549 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		1753583653		
Checked by	AUTOMATICO		Page	Rev.	
Date	11/09/2025		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

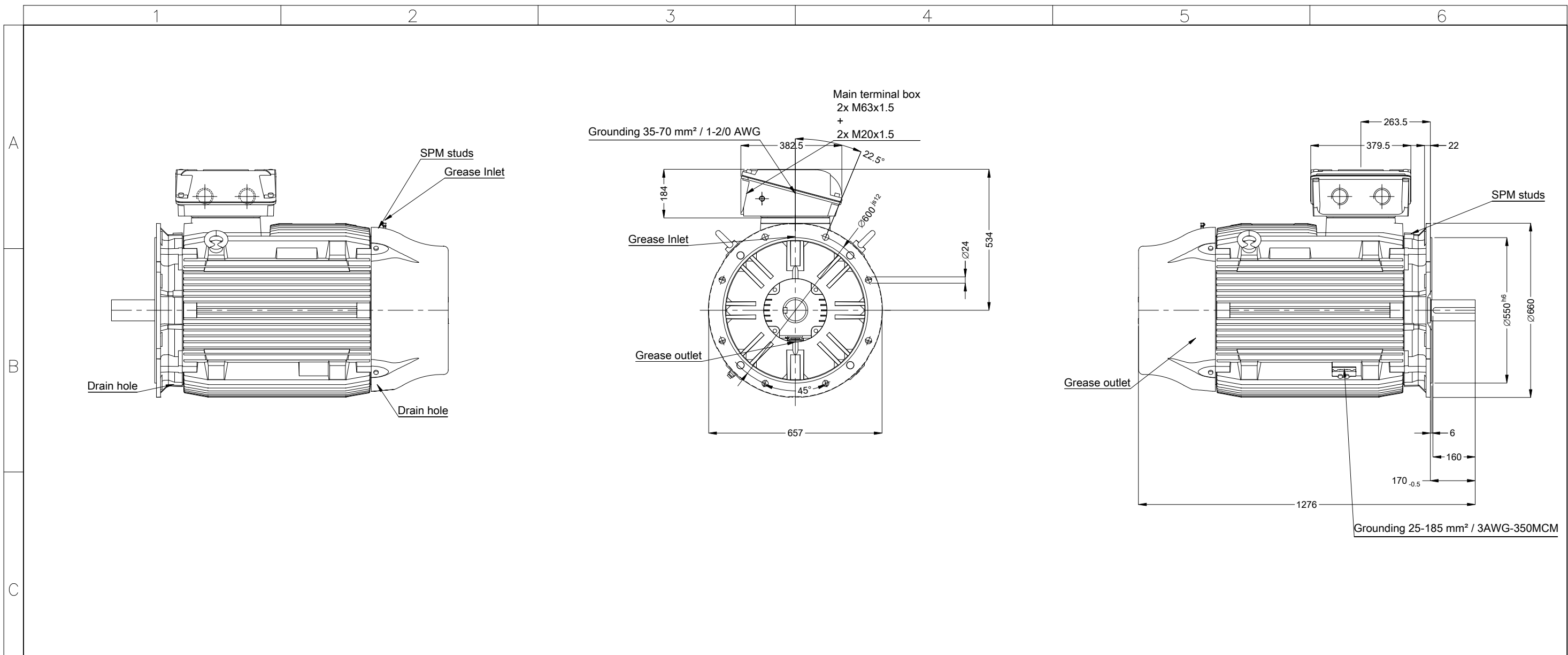
Specification	: IEC 60034-1	Vibration	: IEC 60034-14
Test	: IEC 60034-2	Tolerance	: IEC 60034-1
Noise	: IEC 60034-9		

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	1753583653		
Checked by	AUTOMATICO	Page	Rev.	
Date	11/09/2025	2 / 2	0	



--	--	--

Space heaters 110-127 V / 200-240 V		132 kW 04 Poles 50 Hz		A																																														
DE grounding brush holder kit		QUANTUM CONTROLS																																																
				Scale 1 : 15																																														
SPM studs				PIRWUSER 00																																														
Sealing - Viton oil seal ring																																																		
NDE endshield with electrically insulated bearing hub																																																		
Color RAL 5009																																																		
Painting plan 222P																																																		
Mounting B5T																																																		
DE Shaft End DM20 WEG WPR-7339		Vibration sensor studs detail 		<table border="1"> <tr> <td>ECM</td> <td>LOC</td> <td colspan="2">SUMMARY OF MODIFICATIONS</td> <td>EXECUTED</td> <td>CHECKED</td> <td>RELEASED</td> <td>DATE</td> <td>VER</td> </tr> <tr> <td>EXECUTED</td> <td>PIRWUSER</td> <td colspan="2">THREE PH. MOTOR W22 IE4</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>CHECKED</td> <td></td> <td colspan="2">FRAME 315S/M IP55 TEFC</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>RELEASED</td> <td></td> <td colspan="2"></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>REL. DATE</td> <td></td> <td>WEG</td> <td>REDDITCH</td> <td>[Operational]</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>		ECM	LOC	SUMMARY OF MODIFICATIONS		EXECUTED	CHECKED	RELEASED	DATE	VER	EXECUTED	PIRWUSER	THREE PH. MOTOR W22 IE4							CHECKED		FRAME 315S/M IP55 TEFC							RELEASED									REL. DATE		WEG	REDDITCH	[Operational]				
ECM	LOC	SUMMARY OF MODIFICATIONS		EXECUTED	CHECKED	RELEASED	DATE	VER																																										
EXECUTED	PIRWUSER	THREE PH. MOTOR W22 IE4																																																
CHECKED		FRAME 315S/M IP55 TEFC																																																
RELEASED																																																		
REL. DATE		WEG	REDDITCH	[Operational]																																														



PREVIEW
WDD 00
SHEET 1 / 1