

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : ASTRAPROM D.O.O.

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

Frame	: 280S/M	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: B35T
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	: 758 kg
Protection degree	: IP55	Moment of inertia (J)	: 2.85 kgm ²
Design	: NE		

	75 kW	75 kW	75 kW	75 kW
Output	75 kW	75 kW	75 kW	75 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	145/83.3 A	138/79.7 A	136 A	122 A
L. R. Amperes	1086/625 A	1100/638 A	1155 A	1101 A
LRC	7.5	8.0	8.5	9.0 x Code K
No load current	55.0/31.7 A	59.0/34.2 A	63.0 A	56.0 A
Rated speed	1488 rpm	1489 rpm	1490 rpm	1791 rpm
Slip	0.80 %	0.73 %	0.67 %	0.50 %
Rated torque	481 Nm	481 Nm	481 Nm	400 Nm
Locked rotor torque	250.0 %	280.0 %	310.0 %	320.0 %
Pull up torque	210.0 %	235.0 %	260.0 %	270.0 %
Breakdown torque	280.0 %	300.0 %	350.0 %	370.0 %
Service factor	1.00	1.00	1.00	1.00
Noise level ²	69.0 dB(A)	69.0 dB(A)	69.0 dB(A)	73.0 dB(A)
Locked rotor time (hot)	32 s	29 s	27 s	33 s
Locked rotor time (cold)	58 s	52 s	49 s	59 s
Efficiency (%)	50%	95.0	95.0	94.8
	75%	95.8	95.8	95.7
	100%	96.0	96.0	96.2
Power Factor	50%	0.70	0.67	0.64
	75%	0.79	0.77	0.75
	100%	0.82	0.82	0.80

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
	4.0	4.0	3.0	3.0	2.7	2.7	2.2	2.2	1.4	1.4	1.0	1.0	0.6	0.6

Bearing type	6316-C3	6316-C3	Foundation loads	
Lubrication interval	13000 h	13000 h	Max. traction	: 11015 N
Lubricant amount	34 g	34 g	Max. compression	: 18452 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	bzagueto		1765537265		
Checked by	AUTOMATICO		Page	Rev.	
Date	14/10/2025		1 / 2	2	

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Thermal protection

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

Notes

Standards

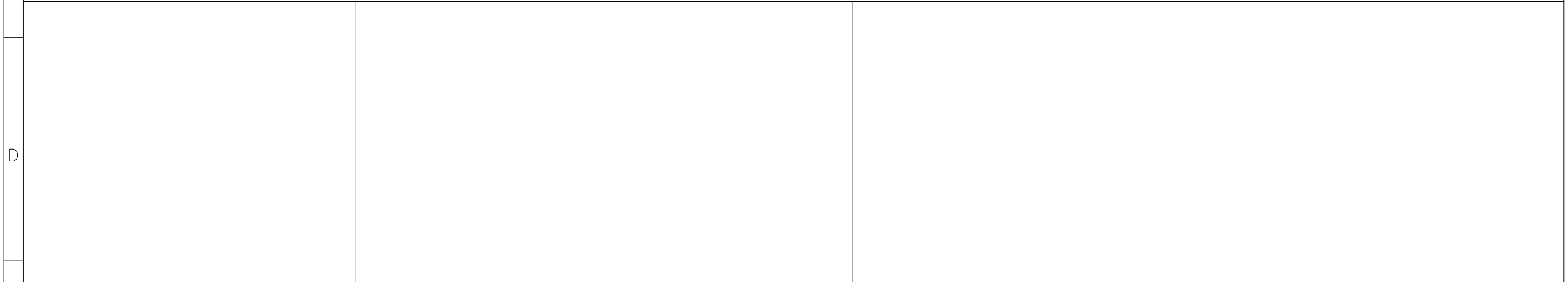
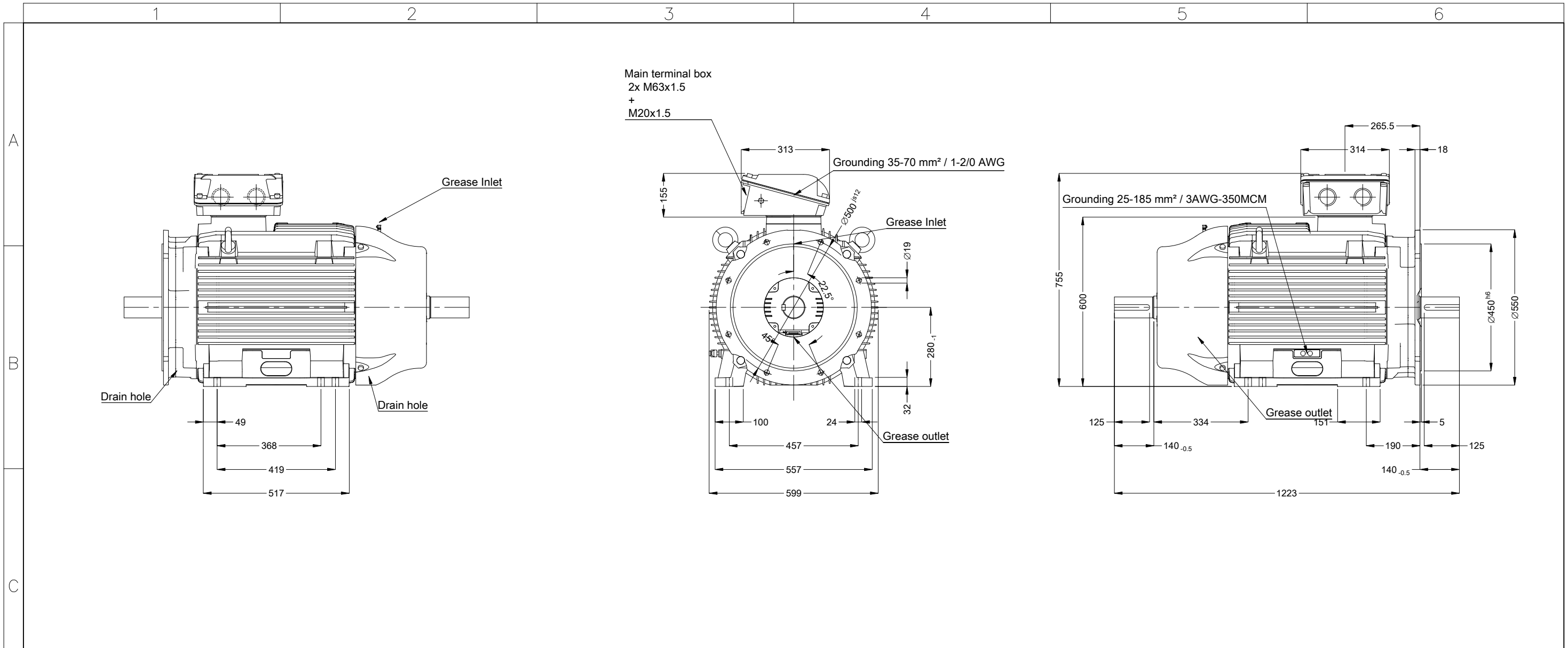
Specification	: IEC 60034-1	Vibration	: IEC 60034-14
Test	: IEC 60034-2	Tolerance	: IEC 60034-1
Noise	: IEC 60034-9		

This revision replaces and cancel the previous one, which must be eliminated.

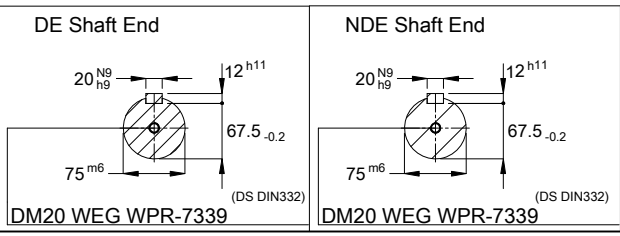
- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight, subject to be changed after manufacturing process.

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

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Performed by	bzagueto	1765537265		
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Aluminum fan
Color RAL 5009
Painting plan 203A
Mounting B35T



75 kW 04 Poles 50 Hz						A
ASTRAPROM D.O.O.						
			Scale 1 : 14			
Saved when return to easyO3 async			PIRWUSER	BZAGUETO	BZAGUETO	18.10.2025 02
Saved when return to easyO3 async			CRISLAINE	CRISLAINE	BZAGUETO	18.10.2025 01
ECM	LOC	SUMMARY OF MODIFICATIONS		EXECUTED	CHECKED	RELEASED DATE VER
EXECUTED	CRISLAINE	THREE PH. MOTOR W22 IE4 FRAME 280S/M IP55 TEFC		1766741804		
CHECKED	CRISLAINE					
RELEASED	BZAGUETO	WID JARAGUA DO SUL [Vendas e Marketing]		WDD 02 SHEET 1 / 1		
REL. DATE	18.10.2025					

PRELIMINARY DOCUMENT - Not to be used for installation purposes. Dimensions in mm. A3