

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase

Frame	: 355M/L	Locked rotor time	: 28s (cold) 16s (hot)
Output	: 315 kW (430 HP)	Temperature rise	: 80 K
Frequency	: 50 Hz	Duty cycle	: S1
Rated voltage	: 400/690 V	Ambient temperature	: -20°C to +40°C
Poles	: 4	Altitude	: 1000 m.a.s.l.
Rated current	: 583/338 A	Protection degree	: IP55
LRC	: 7.9	Cooling method	: IC411 - TEFC
Rated speed	: 1492 rpm	Mounting	: B3T
Rated torque	: 2020 Nm	Rotation ¹	: Both (CW and CCW)
Insulation class	: F	Noise level ²	: 76.0 dB(A)
Service factor	: 1.00	Starting method	: Direct On Line
Moment of inertia (J)	: 9.47 kgm ²	Approx. weight ³	: 1763 kg
Design	: N		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	95.5	96.3	96.3	Max. traction	: 26578 N
Power Factor	0.66	0.76	0.81	Max. compression	: 43869 N

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

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)
4.4	3.0	2.1	3.5	2.2	2.0	1.0

	Drive end	Non drive end
Bearing type	: NU-322 C3	: 6319 C3
Sealing	: WSeal	: WSeal
Lubrication interval	: 5000 h	: 11000 h
Lubricant amount	: 60 g	: 45 g
Lubricant type	: Mobil Polyrex EM	

Notes

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 changes after manufacturing process.
- (4) At 100% of full load.

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

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by				
Date	28/04/2026			
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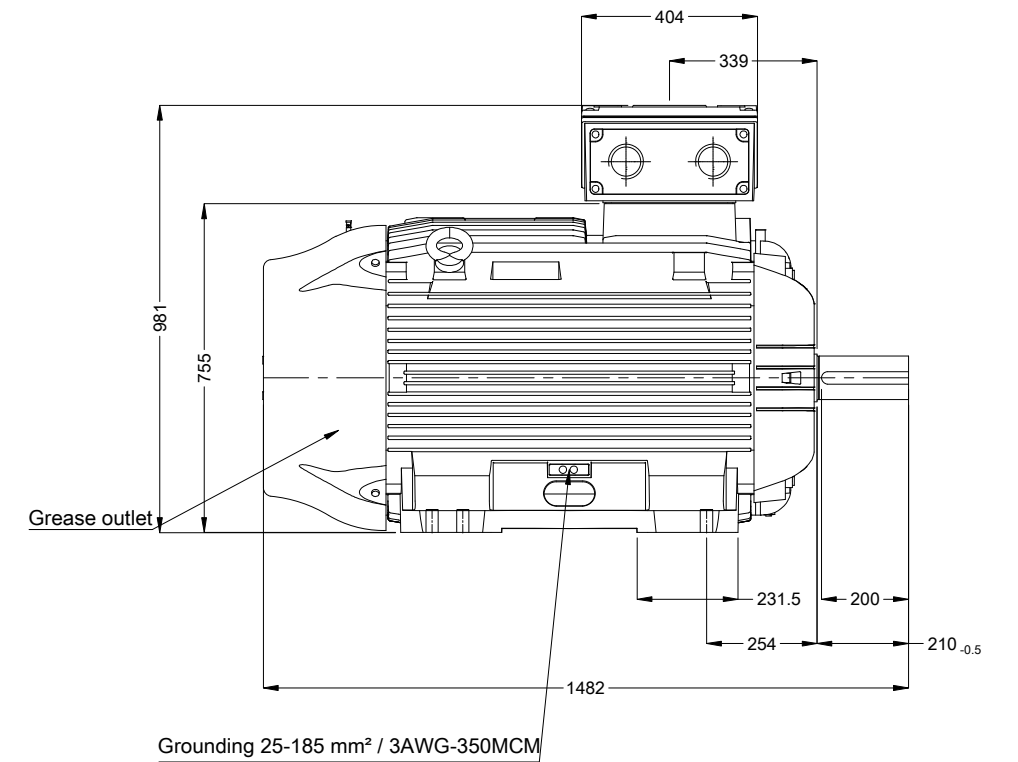


Customer :

Thermal protection

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

Rev.	Changes Summary		Performed	Checked	Date
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315 kW 04 Poles 50 Hz										A
						Scale 1 : 17				
						HYBRISUSER				00
ECM	LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER		THREE PH. MOTOR W22 IE3 FRAME 355M/L IP55 TEFC				PREVIEW WDD 00			
CHECKED										
RELEASED										
REL. DATE										
						SHEET		1 / 1		