DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: W20 Three-Phase	Product code :	17836927

Frame	: 160L	Locked rotor time	: 23s (cold) 13s (hot)
Output	: 11 kW (15 HP)	Temperature rise	: 80 K
Frequency	: 50 Hz	Duty cycle	: S1
Rated voltage	: 400/690 V	Ambient temperature	: -20°C to +40°C
Poles	: 6	Altitude	: 1000 m.a.s.l.
Rated current	: 22.2/12.9 A	Protection degree	: IP55
LRC	: 6.8	Cooling method	: IC411 - TEFC
Rated speed	: 975 rpm	Mounting	: B3T
Rated torque	: 108 Nm	Rotation[1]	: Both (CW and CCW)
Insulation class	: F	Noise level[2]	: 56.0 dB(A)
Service factor	: 1.00	Starting method	: Direct On Line
Moment of inertia (J)	: 0.1891 kgm²	Approx. weight[3]	: 135 kg
Design	: N		

Output	50%	75%	100%
Efficiency (%)	89.0	90.0	90.3
Power Factor	0.59	0.72	0.79

Foundation loads

Max. traction	: 4432 N
Max. compression	: 5753 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)
10.6	9.5	9.4	5.4	4.0	2.9	2.2

		Drive end	Non drive end
Bearing type	:	6209 ZZ C3	6209 ZZ C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	00088	

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

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Three Phase Induction Motor - Squirrel Cage

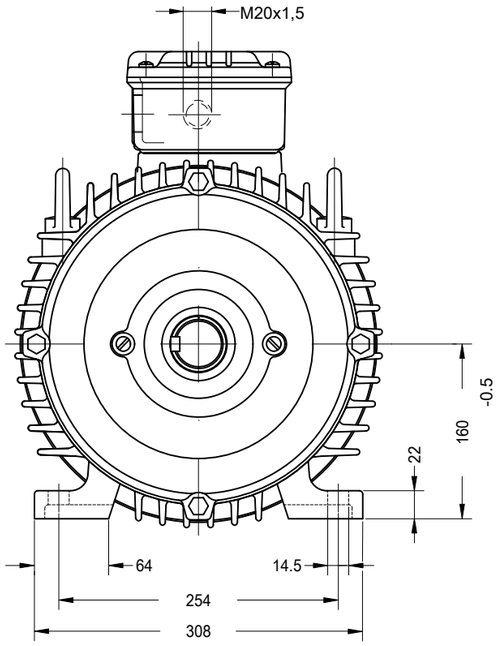
Customer :

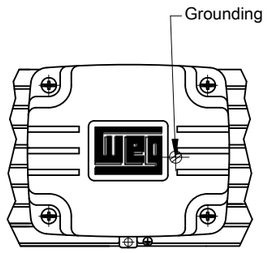
Thermal protection

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

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	30/03/2026		2 / 6	





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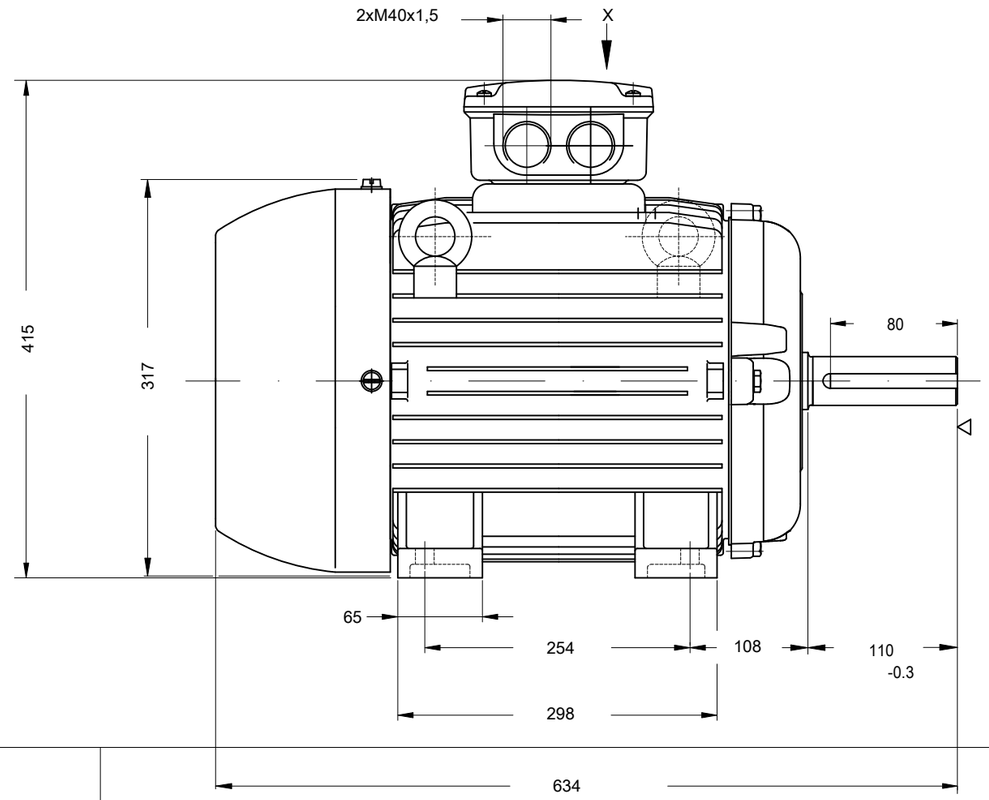

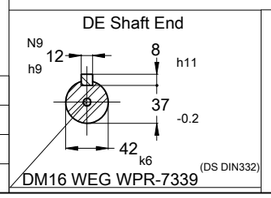

Thermal protection to switch off - thermistors 155°C

Color RAL 7042

Painting plan 201A

Mounting B3T

11 kW 06 Poles 50 Hz | A

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
			HYBRISUSER				00

EXECUTED	HYBRISUSER	THREE PH. MOTOR W20 GB3	PREVIEW	
CHECKED		FRAME 160L IP55 TEFC	WDD	00
RELEASED				
REL. DATE		WMO Jaragua do Sul Product Engineering	SHEET	1 / 1

Dimensions in mm

XME A3