

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W20 Three-Phase			Product code : 17864470			
Frame	: 200L		Locked rotor time	: 30s (cold) 17s (hot)		
Output	: 18.5 kW (25 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	: 35.4/20.5 A		Protection degree	: IP55		
LRC	: 6.3		Cooling method	: IC411 - TEFC		
Rated speed	: 975 rpm		Mounting	: B3T		
Rated torque	: 181 Nm		Rotation ¹	: Both (CW and CCW)		
Insulation class	: F		Noise level ²	: 58.0 dB(A)		
Service factor	: 1.00		Starting method	: Direct On Line		
Moment of inertia (J)	: 0.3861 kgm ²		Approx. weight ³	: 225 kg		
Design	: N					
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	90.5	91.8	92.0	Max. traction	: 4596 N	
Power Factor	0.65	0.76	0.82	Max. compression	: 6805 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)
8.5	7.3	6.6	4.2	3.0	2.0	1.4
Bearing type	:	<u>Drive end</u> 6212 ZZ C3		<u>Non drive end</u> 6212 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
Performed by						
Checked by					Page	Revision
Date	30/03/2026				1 / 6	

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Thermal protection

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

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	30/03/2026		2 / 6	

1 2 3 4 5 6

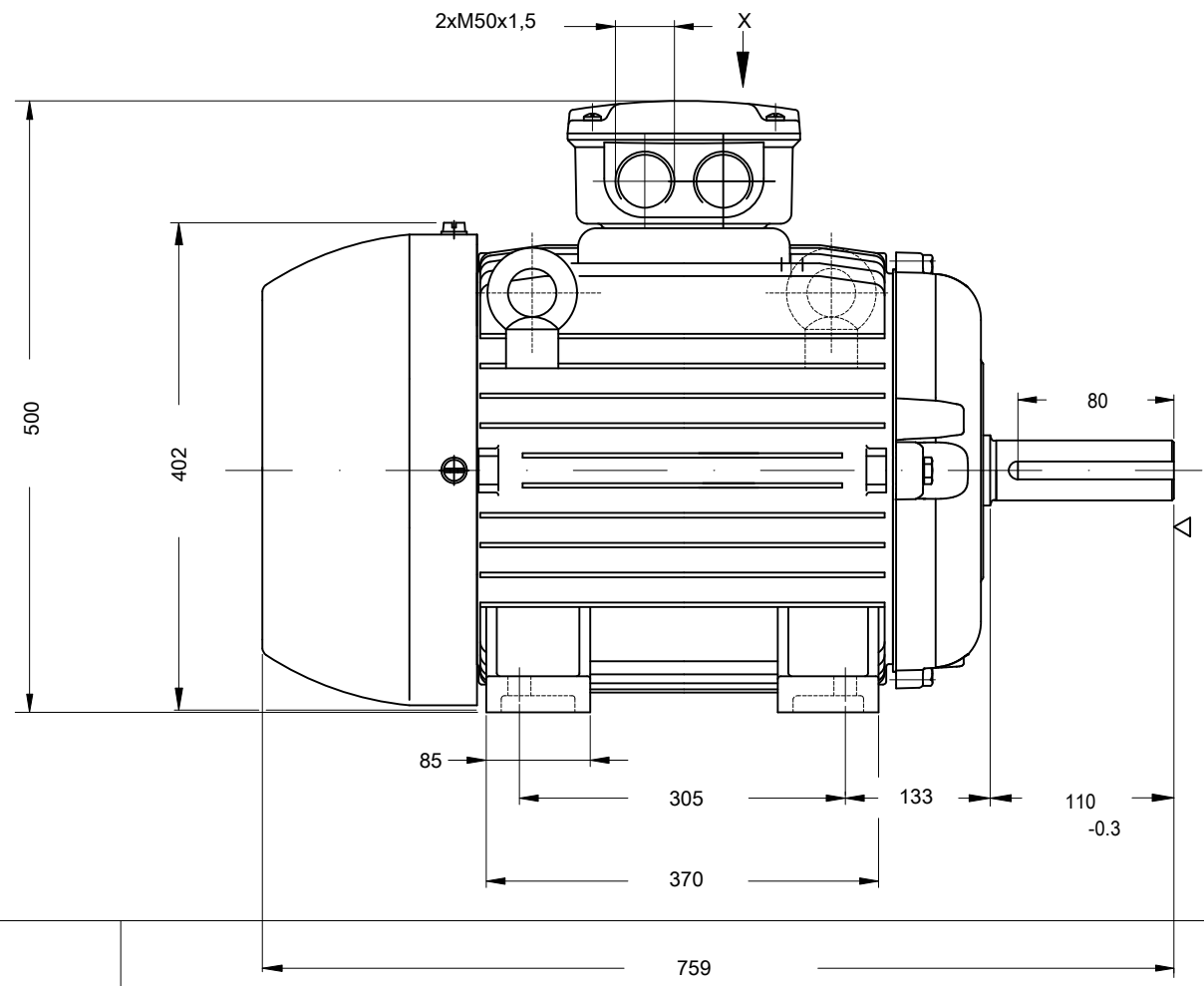
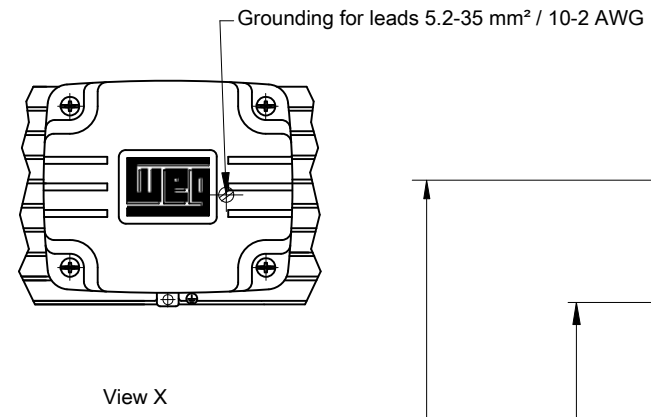
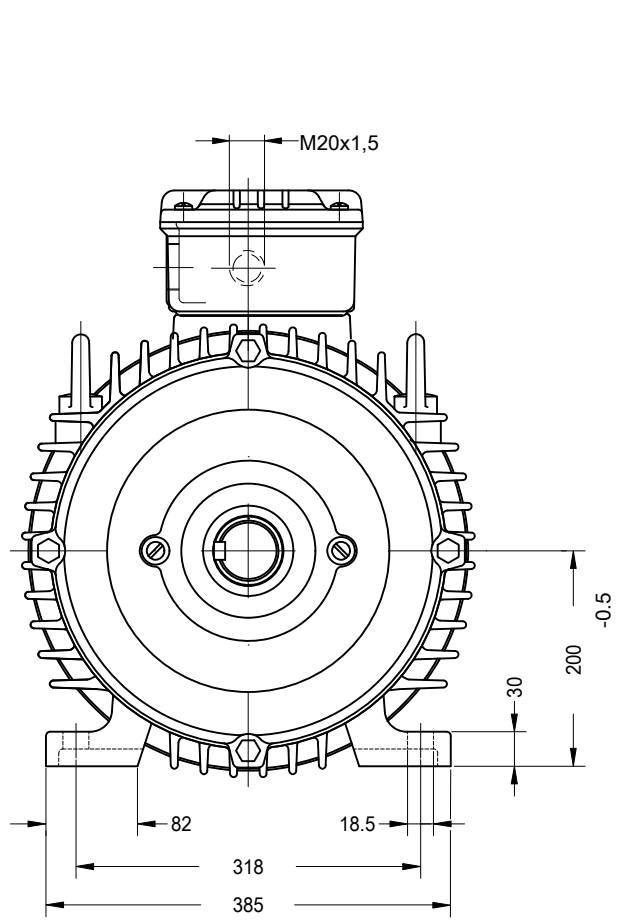
A

B

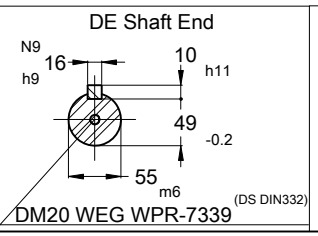
C

D

E



Thermal protection to switch off - thermistors 155°C
 Color RAL 7042
 Painting plan 201A
 Mounting B3T



18.5 kW 06 Poles 50 Hz A

						HYBRISUSER								00	
ECM	LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE	VER					
EXECUTED	HYBRISUSER	THREE PH. MOTOR W20 GB3		FRAME 200L IP55 TEFC		PREVIEW									
CHECKED						WDD		00							
RELEASED						SHEET		1 / 1							
REL. DATE		WMO	Jaragua do Sul	Product Engineering											

Dimensions in mm XME A3