W30 Smart EC

Industrial Motors

Commercial & Appliance Motors

Automation

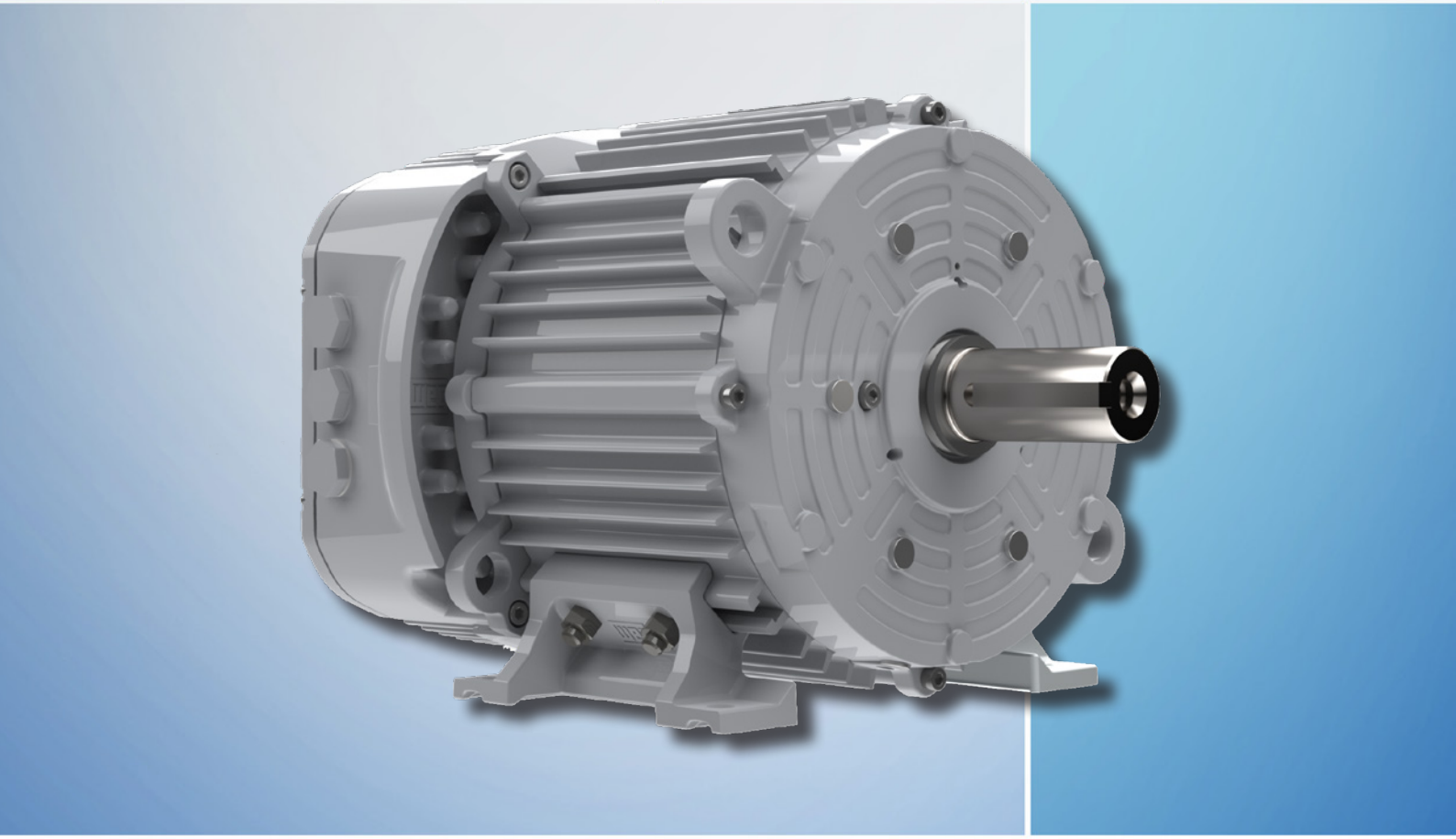
Digital & Systems

Energy

Transmission & Distribution

Coatings

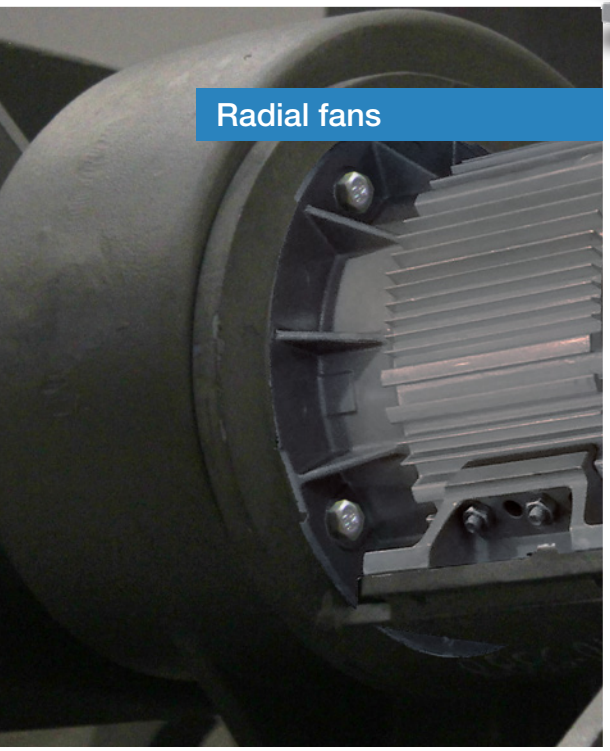
Moving air with efficiency (NEMA)



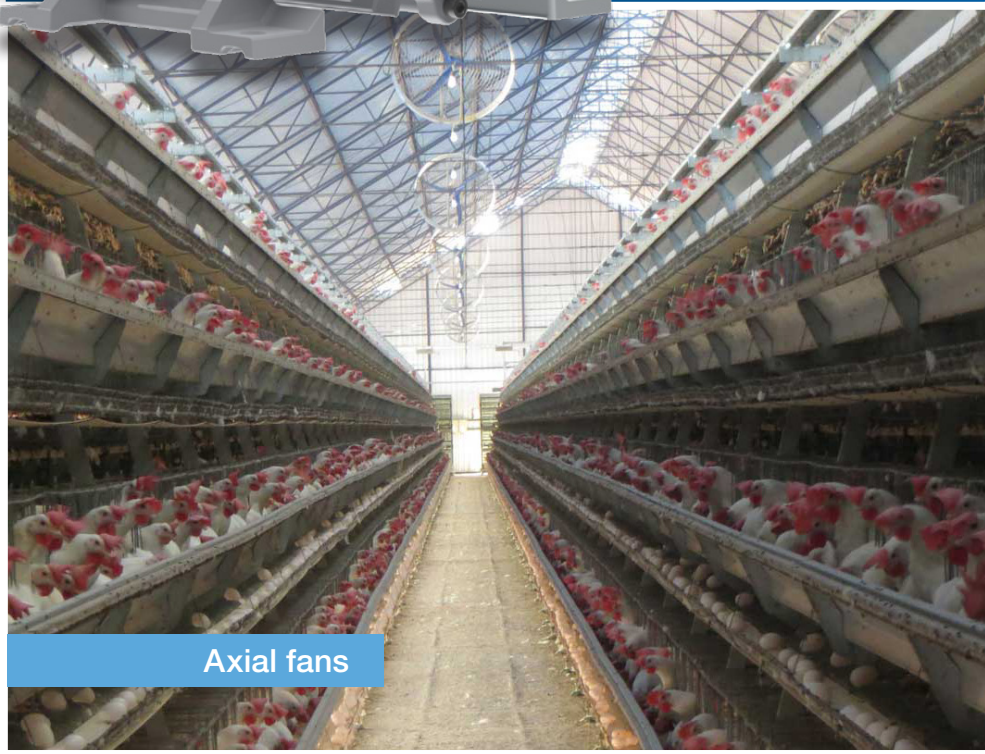
Driving efficiency and sustainability

W30
Smart EC

Moving air with efficiency



Radial fans



Axial fans

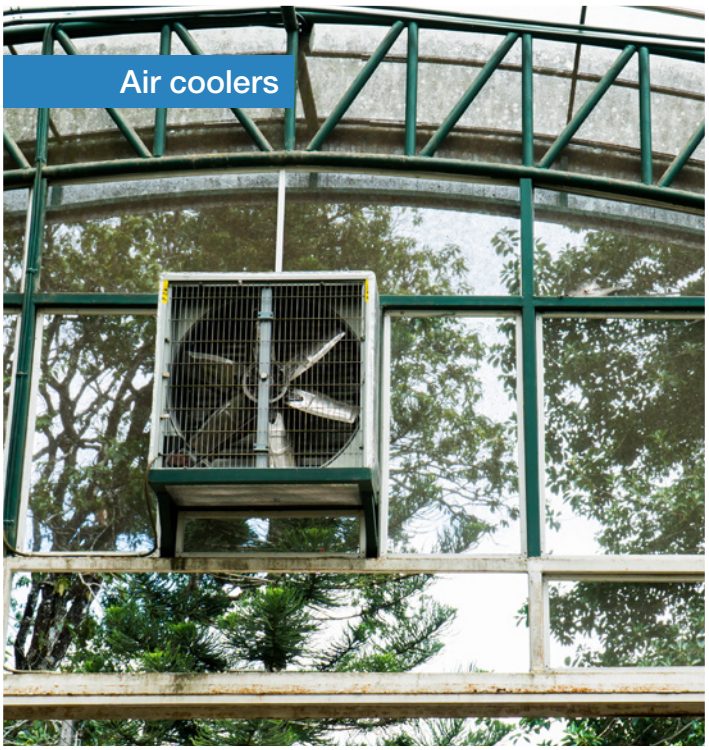
www.weg.net

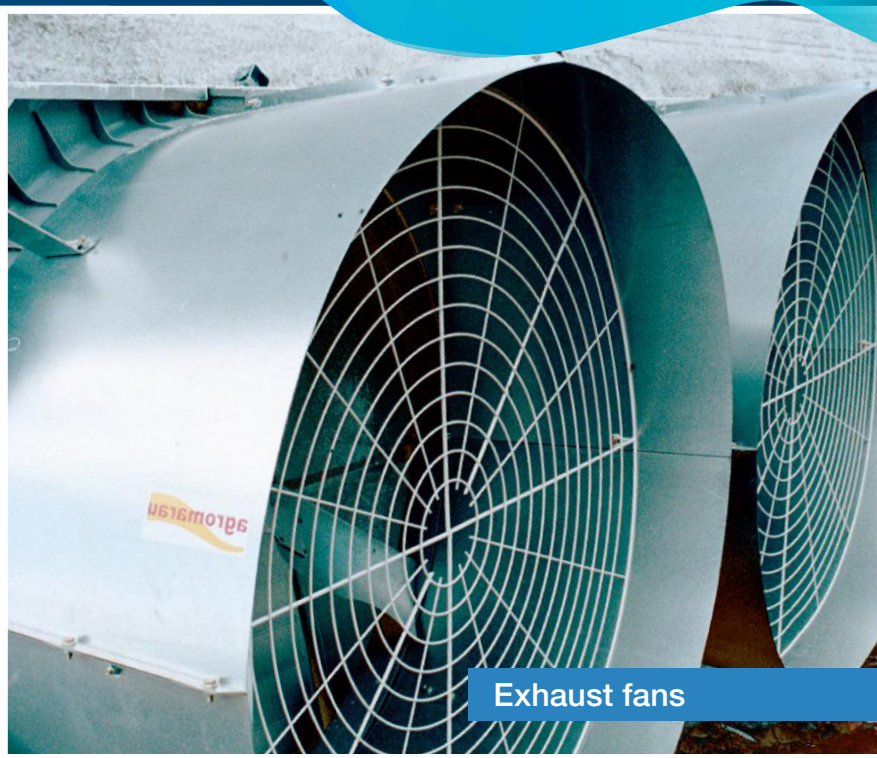
Interchangeable motor with builtin drive and permanent magnets.

A complete and versatile solution for motor fan applications.

- Speed variation for airflow rate with energy savings
- NEMA standard: interchangeability with induction motors.
- Automatic control of temperature and air quality levels.

Join this movement for efficiency too.

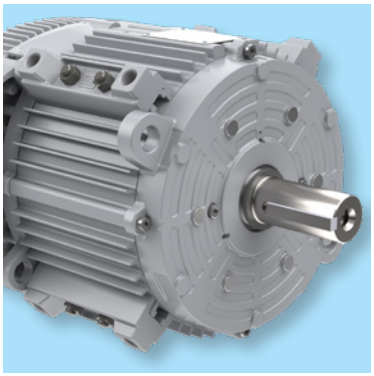

Air coolers


Exhaust fans

Driving efficiency and sustainability

W30 Smart

Electronically Controlled WEG Motor.



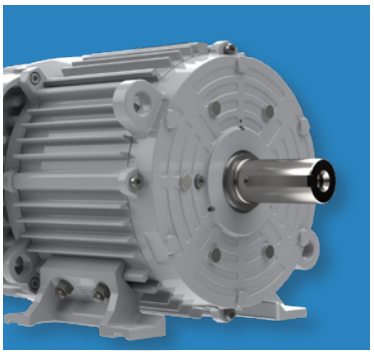
Three-Phase Motors

- Voltage: 380-480 VAC
- Frequency: 50/60 Hz
- Output Power: 5.5 to 10 hp at 900, 1200, 1500, 1800 or 3000 rpm
- Aluminum Housing
- Protection Rating: IP55
- Ambient temperature:
  - -10 to 50°C (TEAO)1
  - -10 to 40°C (TENV)2 with reduced output power
- Vibration Grade: A
- Direction of rotation CW/CCW (selectable)
- Continuous Speed Adjustment (200 to 900, 200 to 1200, 200 to 1500, and 200 to 1800) by:
  - Buttons (located on the rear cover)
  - DC Voltage (remote): 2 to 10 VDC
  - DC Current (remote): 4 to 20 mA DC
  - PMW (remote): 10% to 95%.
- Alarm Relay (NO & NC)
- Optically Isolated Local Controls
- With Drain Plug and V-ring Seal
- ZZ Bearings
- Front Bearing Locking Ring
- Junction Box with Spring Terminals
- Electronic Protection: Overload, Over temperature, and Locked Rotor
- Fire Mode (Operation at maximum speed with electronic protections disabled).

Notes:
[1] Air over (TEAO). Minimum air flow over the motor frame and drive end cover of 6 m/s.
[2] Non-ventilated (TENV). Consult WEG for electrical data.

Optional

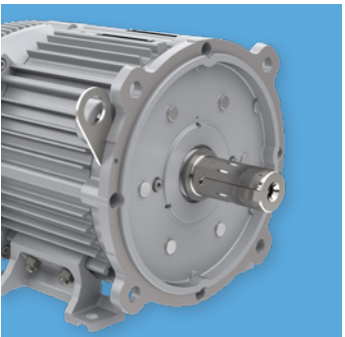
- NEMA213T: Pad Mounting (4 x 90 degrees), Flange FF - 265 C-200 and FC-184
- Slinger Seal for Vertical Mounting with Shaft Up
- Custom Shaft Ends.
- External Controller with Display for Adjusting.



Electrical Data

Three-Phase Motors - IE5

Power		Model	Frame	Nominal torque (Nm)	Inertia (kgm²)	Weight (lb)	Noise pressure level dB(A)	Service Factor	100% load		Rated current In (A)
kW	hp								Efficiency	Power factor	
900RPM											
3,7	5	213T-A	213T	39,0	0,0230	83,8	65,0	1,00	89,4	0,90	6,99
5,5	7,5	213T-B	213T	58,5	0,0340	104,0	65,0	1,00	90,4	0,92	10,00
7,5	10	213T-C	213T	78,0	0,0460	123,0	65,0	1,00	90,6	0,94	13,40
1200RPM											
3,7	5	213T-A	213T	29,3	0,0230	83,8	65,0	1,00	90,6	0,90	6,89
5,5	7,5	213T-B	213T	43,9	0,0340	104,0	65,0	1,00	91,2	0,92	9,96
7,5	10		213T	58,5	0,0460	123,0	65,0	1,00	91,4	0,94	13,30
1500 RPM											
3,7	5	213T-A	213T	23,4	0,0230	83,8	65,0	1	90,6	0,90	6,89
5,5	7,5		213T	35,1	0,0340	104,0	65,0	1	91,0	0,92	9,98
7,5	10	213T-B	213T	46,8	0,0340	104,0	65,0	1	91,4	0,94	13,30
1800 RPM											
3,7	5	213T-A	213T	19,5	0,0230	83,8	65,0	1,00	90,0	0,90	6,94
5,5	7,5		213T	29,3	0,0230	83,8	65,0	1,00	90,4	0,92	10,00
7,5	10	213T-B	213T	39,0	0,0340	104,0	65,0	1,00	91,0	0,94	13,30

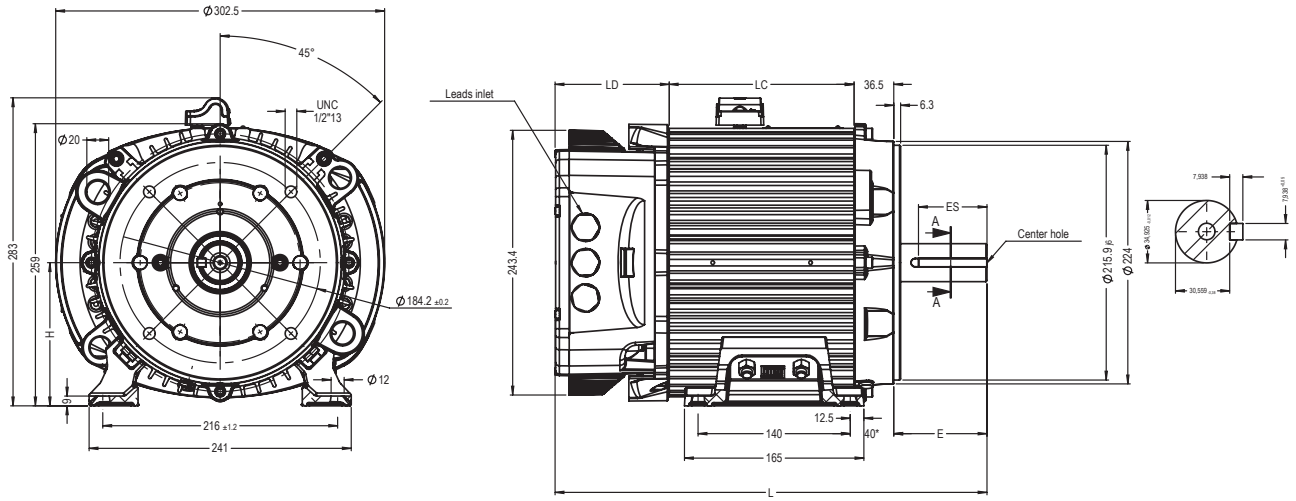


External dimensions of three-phase motors (in mm)

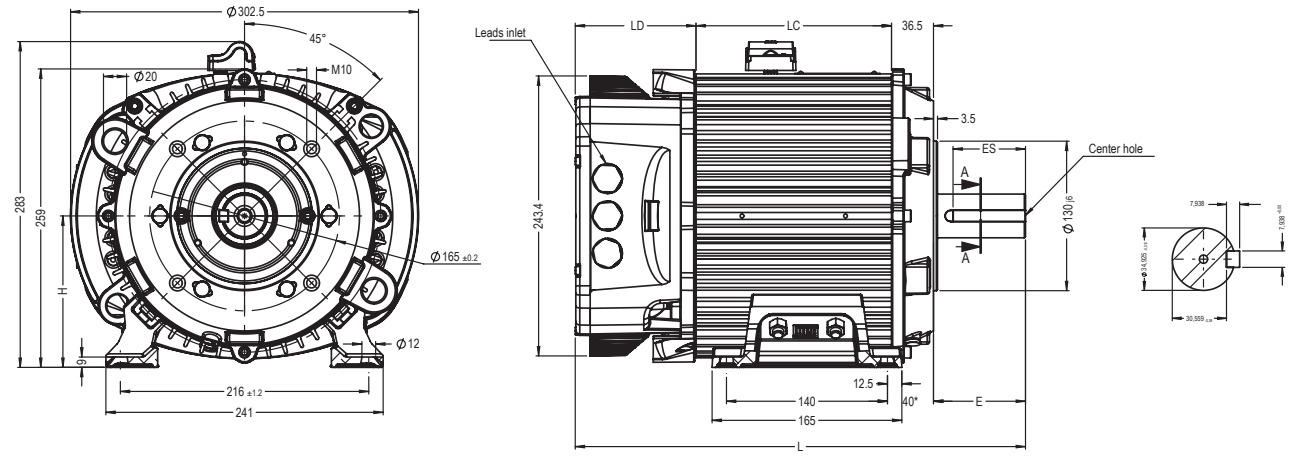
Model	Weight (kg)[2]	LC	LD [1]	L		
				B3/B30	B14	B5
213T-A	38.0	140	105	367.5		
213T-B	47.5	170		397.5		
213T-C	56.0	200		427.5		

1) LD is the dimension of the drive for decentralized motors.
2) Approximate mass, subject to change without prior notice.
3) Dimensions for decentralized motors can be provided upon request to WEG.

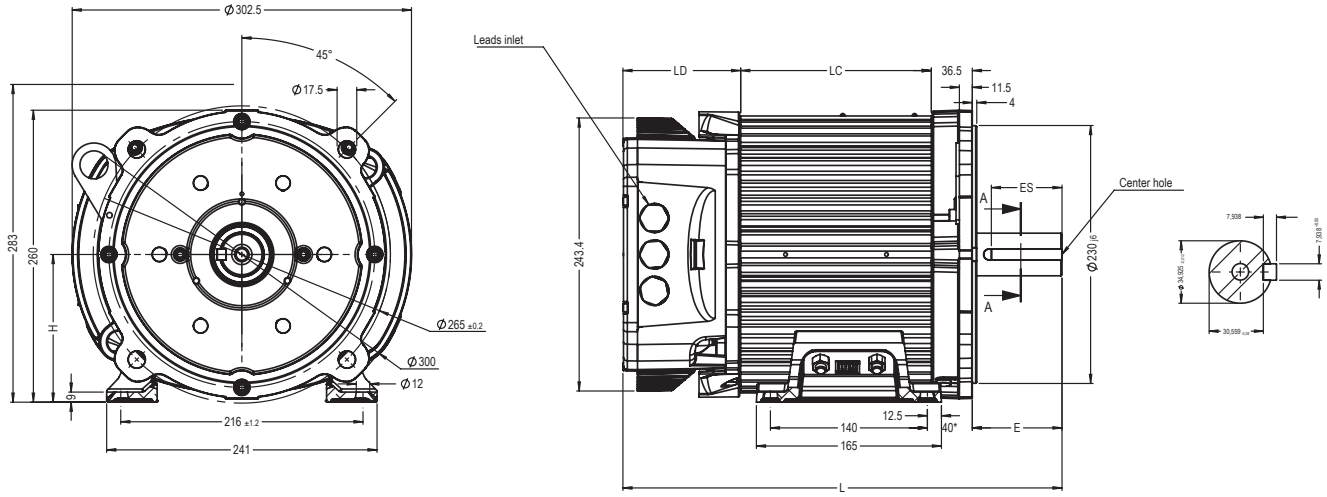
Frame 213T (Flange FC-184)



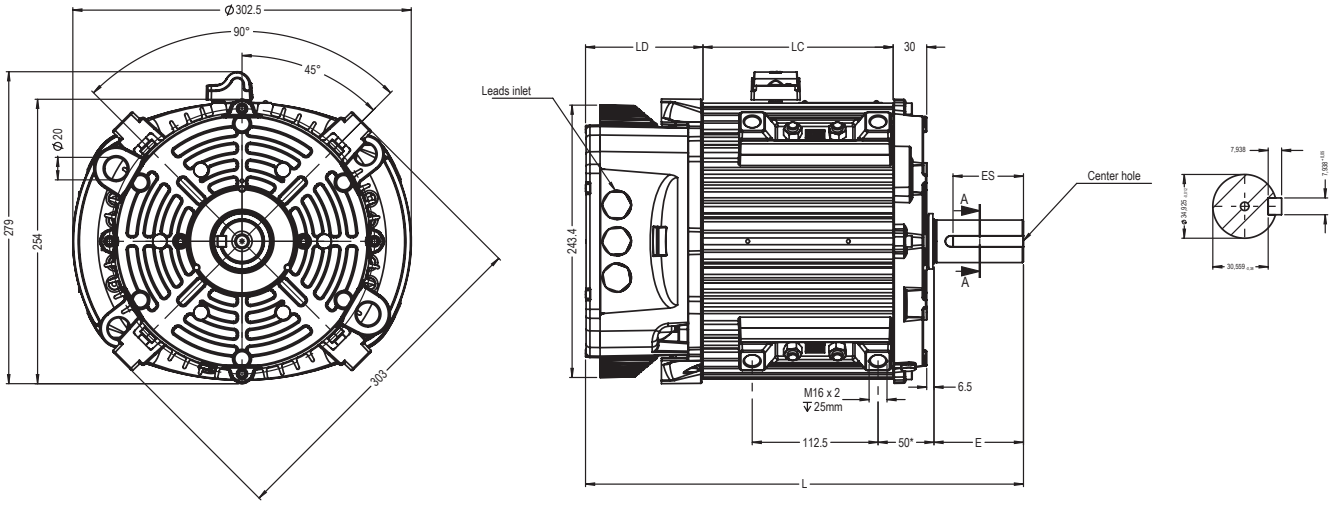
Frame 213T (Flange C-200)



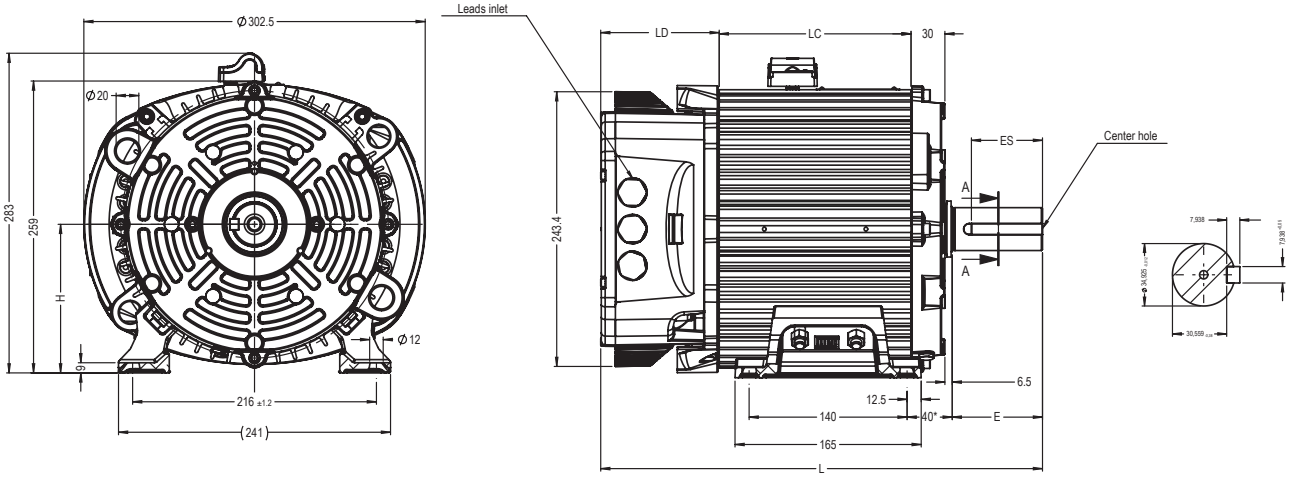
Frame 213T (Flange FF-265)



Frame 213T (PAD)



Frame 213T (Cover)



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