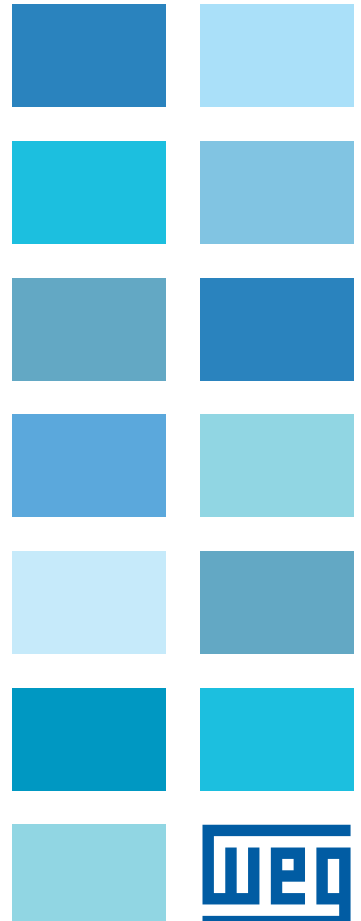
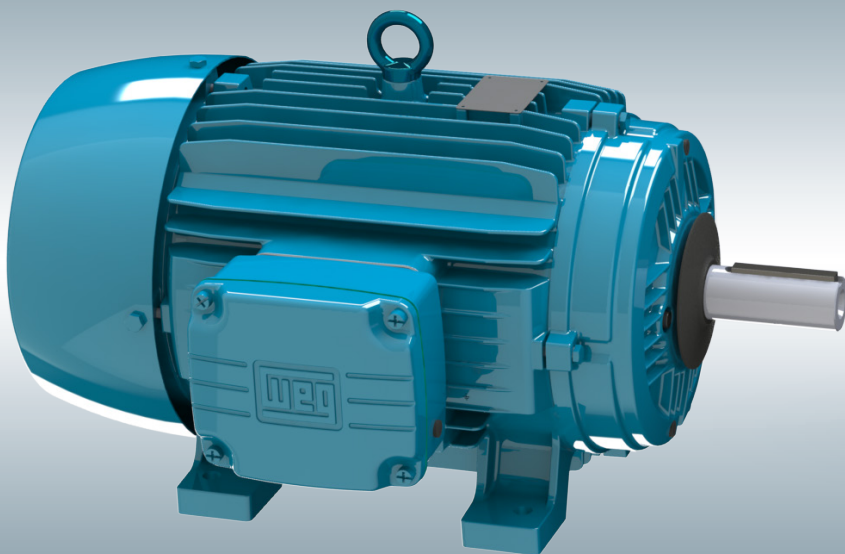
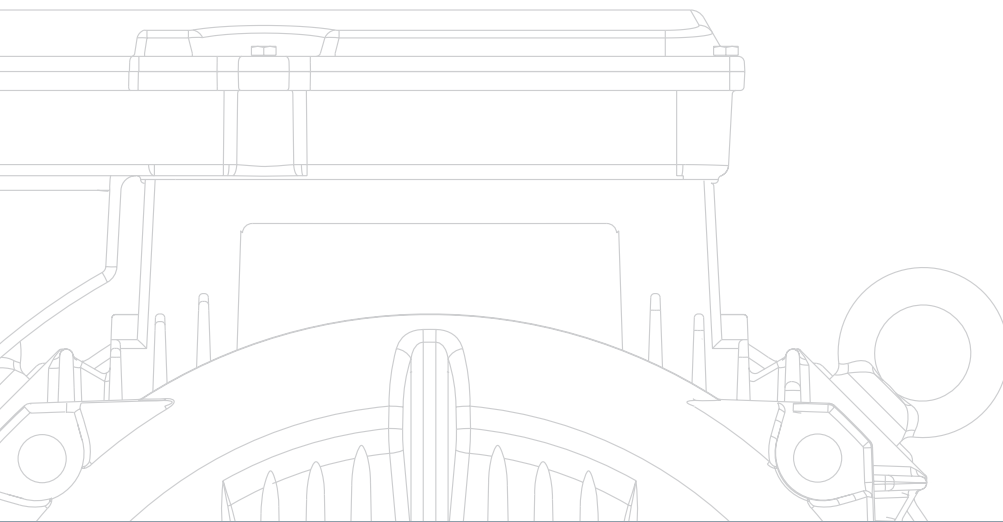
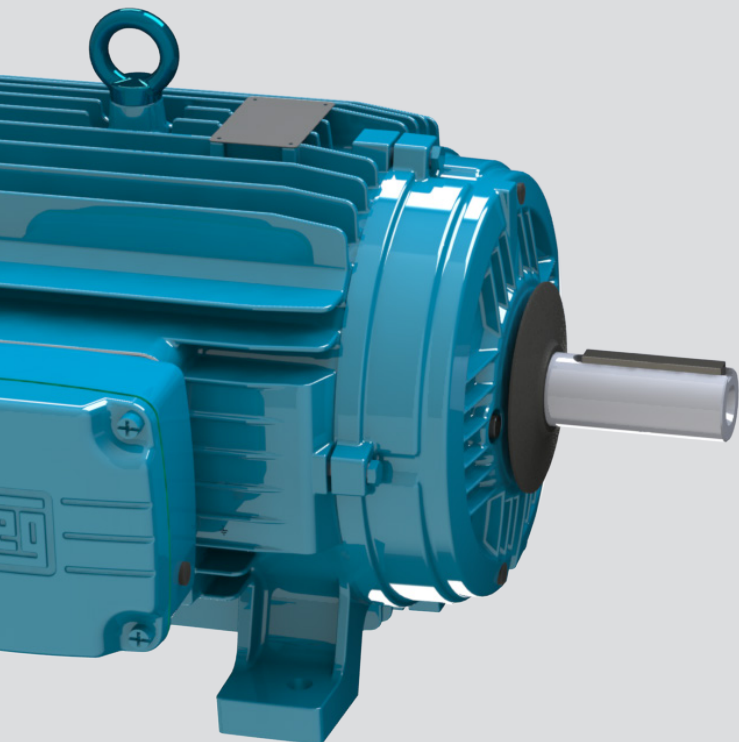


Cooling Tower Motors



Cooling Tower Motors

WEG Cooling Tower motors are designed with a carefully selected set of features that allows reliable operation in 100% humidity applications and high corrosive environments. The line is suitable for frequency inverter operation, being capable to operate in either horizontal or vertical mounting. The Cooling Tower motors design is based on the W21 Cast Iron mechanical platform, which present improved cooling system and solid feet for cooler operation and reduced vibration and noise extending the motor lifespan.



Cooling Tower Motor #1

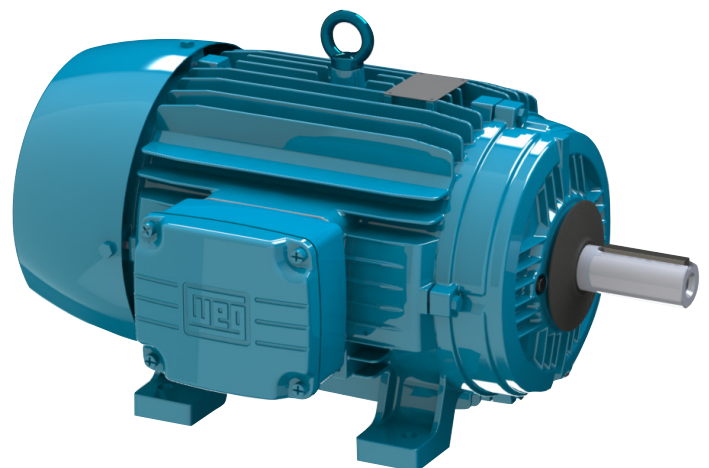
Motors installed in the top of the cooling tower or directly subjected to the cooling tower air flow.

- Efficiency levels: Standard Efficiency - IE1
High Efficiency - IE2
Premium Efficiency - IE3
Super Premium Efficiency - IE4 ¹⁾
- Cooling Method: TEFC (TEAO upon request)
- Degree of protection: IP55
- Rated output: 1.1 to 90kW
- Number of poles: 2, 4, 6, 8
- Frame sizes: 90 to 280S/M
- Voltage: single or multivoltage design
- Insulation class: F
- Squirrel cage rotor in aluminum die cast
- Double sealed 2RS bearings (up to 200L)
- Internal epoxy coating (tropicalization)
- Sealing compound at fitting joints
- Space heaters (Optional)
- Rubber drain plugs in endshields and terminal box
- Shaft slinger
- Dedicated Nameplate
- Dedicated painting plan
- Color: RAL 5009 - Blue (for IE1, IE2 and IE3 motors)
RAL 6002 - Green (for IE4 motors)

Cooling Tower Motor #2

Motors installed besides the cooling tower equipment but not directly subjected to the cooling tower air flow.

- Efficiency levels: Standard Efficiency - IE1
High Efficiency - IE2
Premium Efficiency - IE3
Super Premium Efficiency - IE4 ¹⁾
- Cooling method: TEFC (TEAO upon request)
- Degree of protection: IP55
- Rated output: 1.1 to 90kW
- Number of poles: 2, 4, 6, 8
- Frame sizes: 90 to 280S/M
- Voltage: single or multivoltage design
- Insulation class: F
- Squirrel cage rotor in aluminum die cast
- Sealing compound at fitting joints
- Shaft slinger
- Dedicated Nameplate
- Color: RAL 5009 - Blue (for IE2 and IE3)
RAL 6002 - Green (for IE4 motors)



Benefits

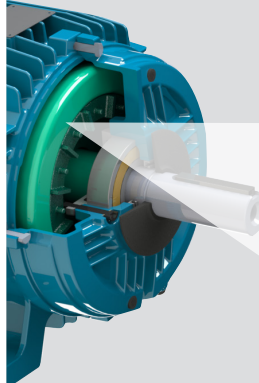


Double Sealed 2RS (Two Rubber Seals) Bearings

WEG Cooling Tower motors are supplied with 2RS type bearings. They are fitted with nitrile rubber seals on both bearing sides to provide additional protection against the ingress of liquid contaminant agents to the bearing and motor enclosures.

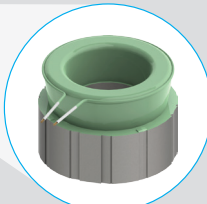
Supplied as Standard for:

- up to 200L frame

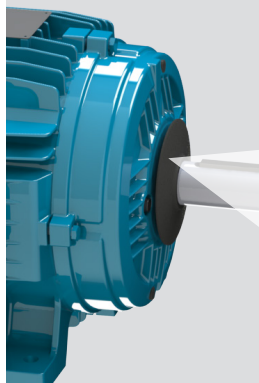


Space Heaters(Optional)

Prevent water condensation accumulation inside the motor and maintain winding insulation resistance within acceptable levels, prolonging the electric motor lifespan.




Voltage (110-127 or 200-240 or 380-480V)
For frames 90 to 100 - Single
For frames 112 to 280 - Dual



Shaft Slinger

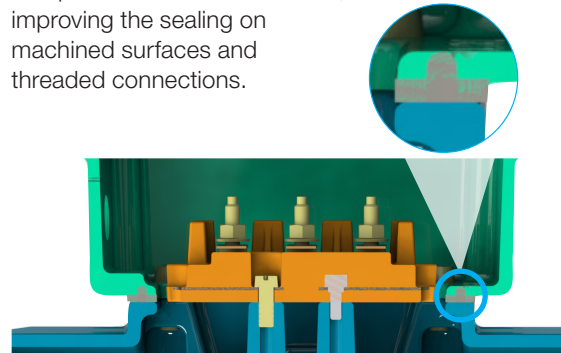
In order to offer an additional protection against the ingress of liquid contaminant agents through the shaft end bearing, specially for vertical shaft up applications, Cooling Tower motor shafts are supplied with a rubber slinger ring.



This slinger operates as a centrifuge element that, when the motor is running, expels the liquids with its rotation movement.


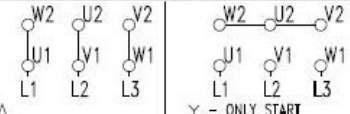





Sealing Compound at Fitting Joints

Applied to drive end and non-drive endshield joints and terminal box fixing screws, the Loctite 5923 compound forms an elastic film, improving the sealing on machined surfaces and threaded connections.



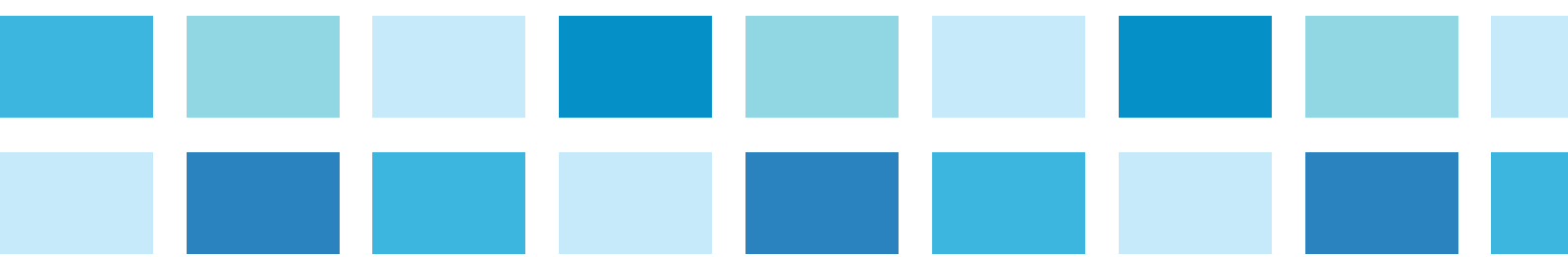
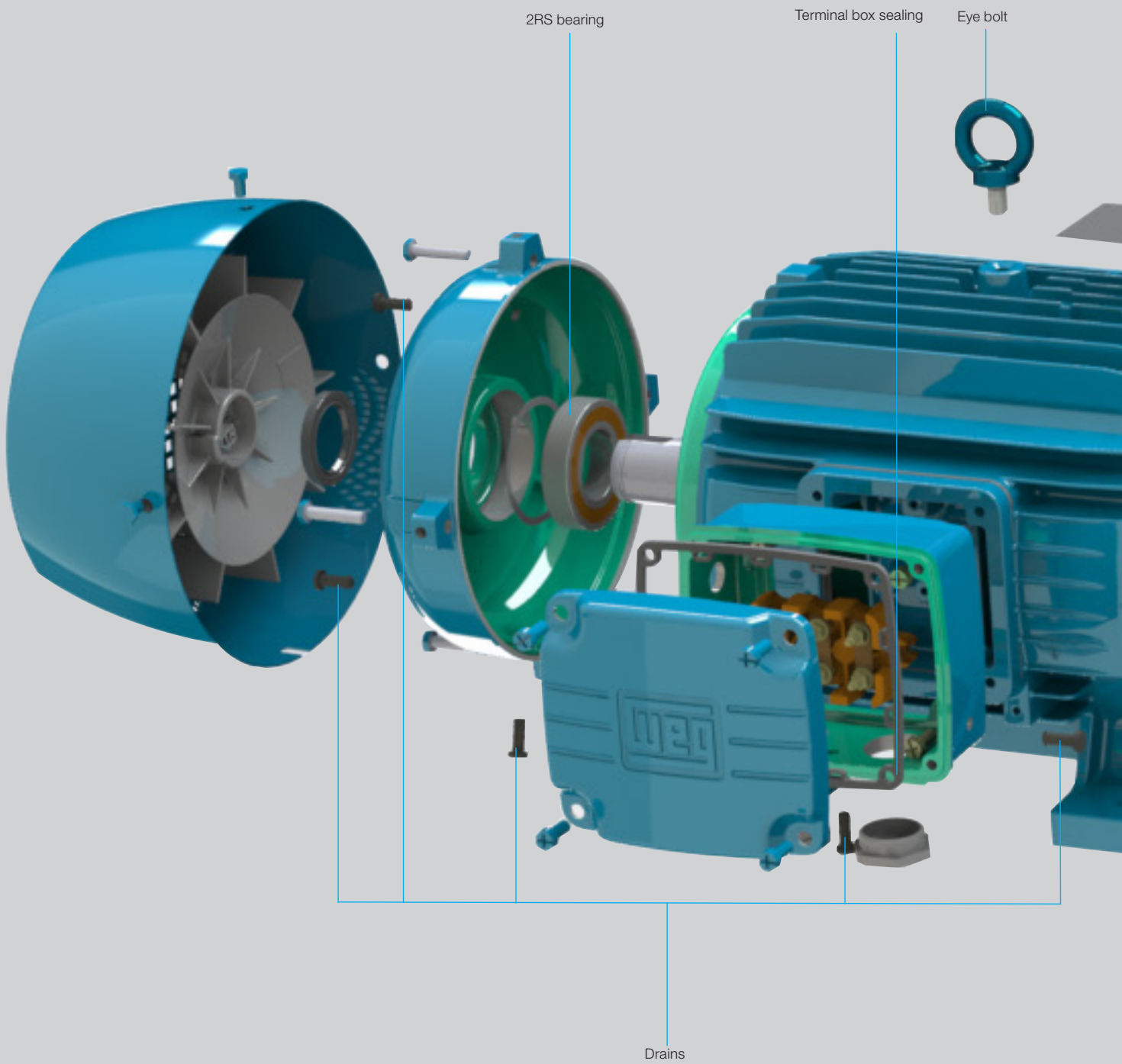
Dedicated Nameplate

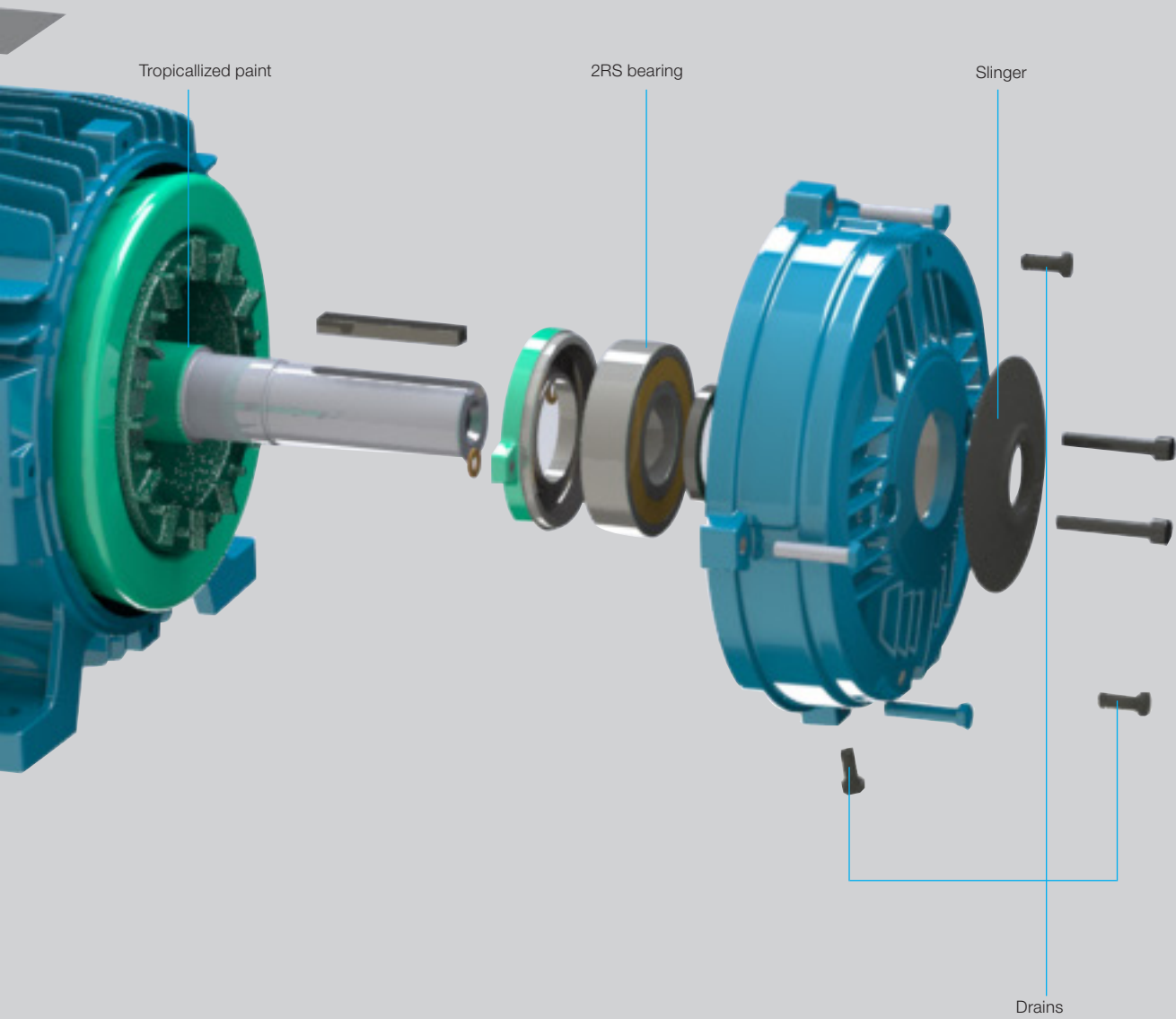
Clear identification allowing correct replacement.

		13740561		W21 COOLING TOWER			
		WNT					
3 ~ 160L-04		AMB 40°C					
IP55		INS	CL. F	ΔT 80 K	S1	SF 1.00	
V		Hz	kW	RPM	A	PF	
415 Δ /-		50	15	1460	28.2 /-	0.83	
- /-					- /-		
- /-					- /-		
- /-					- /-		
415	IE1	89.0	(100%)	88.5	(75%)	88.0	(50%)
- /-		-	(100%)	-	(75%)	-	(50%)
-		-	(100%)	-	(75%)	-	(50%)
		Y - ONLY START					
NEMA Eff -%		-HP	- V	- Hz	- RPM		
- A PF		- DES	- CODE	- SF			
		6309-2RS-C3		MOBIL POLYREX EM		121 kg	
		6209-2RS-C3					
		MOD.TE01FOX0X0000301180					
						IEC 60034-1	



Features





Internal Epoxy Coating (Tropicalization)

This internal coating ensures additional protection against the harmful effects of high humidity environments that may compromise the integrity of the motor's insulation system leading to premature deterioration.

Dedicated Painting Plan

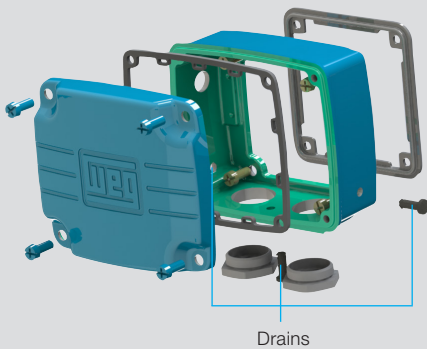
WEG Cooling Tower motors are supplied with a dedicated epoxy based painting plan (WEG internal designation 202E), specially designed for environments where high humidity is present. This painting plan exceeds the "C3" Corrosivity Category and "High" resistance to the salt spray test (minimum of 500 hours) as per ISO 12944-2 Standard.

Salt Spray Resistance

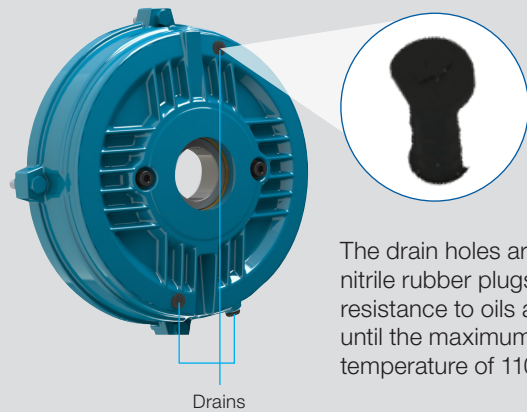


Drains Versatility for Horizontal or Vertical Mounting

The Cooling Tower line motors are supplied with drain holes for draining the water from inside the motor. The location of these drain holes in the endshields (two axial and one radial) and in the terminal box (two in opposite sides and one in cable entrance side) ensures efficient water draining from the motor enclosure.



DE Endshield

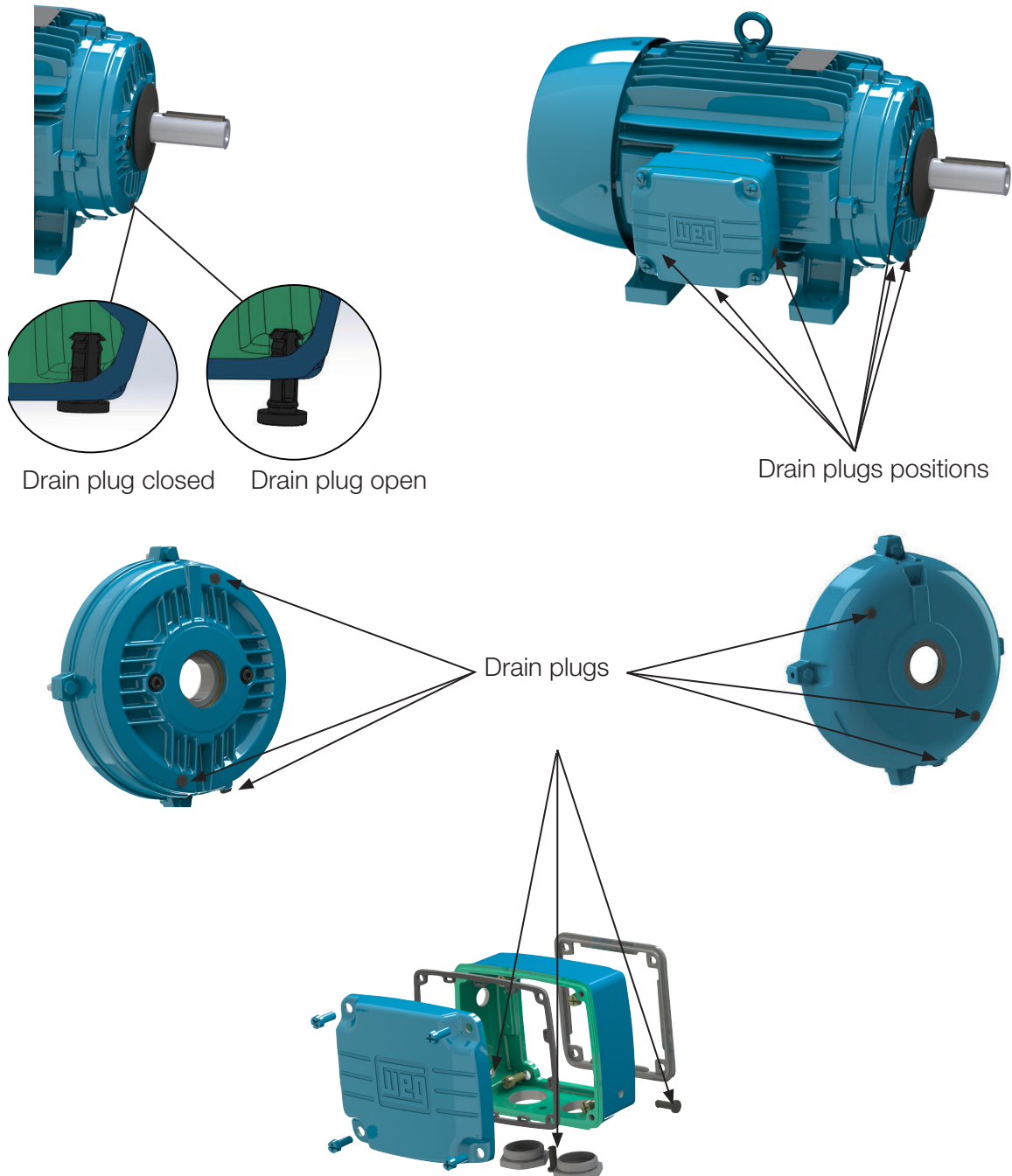


The drain holes are fitted nitrile rubber plugs that offer resistance to oils and acids until the maximum temperature of 110 °C.

ATTENTION

COOLING TOWER DUTY MOTORS

Motor designed for multiple mounting. The drain plugs in the lowest position should be opened during motor installation as shows below.



The fan cover may need to be removed to access some of the drain plugs.

To access our complete installation, Operation and Maintenance manual please log into the Download Center on our Website at www.weg.net.

Code: 50069984 | Rev: 00 | Date (m/y):11/2016

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