

Cooling Tower Motors Cast Iron, TEAO



Protection against environmental factors is key to reliability and increased total cost of ownership in the cooling tower industry. Baldor•Reliance® cooling tower motors offer a complete package in a totally enclosed design with additional sealing to minimize moisture entry points. A robust cast iron frame and corrosion resistant hardware stand up to the harshest environments.

Applications:

For use in the airstream on chillers and cooling towers. Designed for wet, high humidity environments.

Features:

- Direct Replacement for most OEM's
- Integral Horsepower Rule Exempt

Electrical Features:

- Class F insulation
- 1.15 Service Factor
- Moisture resistant copper windings
- 5-60 HP NEMA Premium® ratings available

Mechanical Features:

- Stainless Steel hardware and nameplate
- Corrosion resistant finish
- Double sealed bearings
- Moisture resistant grease
- Seals
 - Lip Seal
 - V-ring Slinger
 - Dome Slinger

TEAO Enclosure:

TEAO enclosure eliminates the external fan and the need for a motor opening in the opposite drive end. Motors use the application to their advantage by utilizing the ventilation in the application.

Conduit Box Lid Gasket:

The gasket serves as a moisture barrier for the conduit box. It blocks moisture from entering, and it ensures a tight seal every time the conduit box is closed.

Lead Separator Gasket:

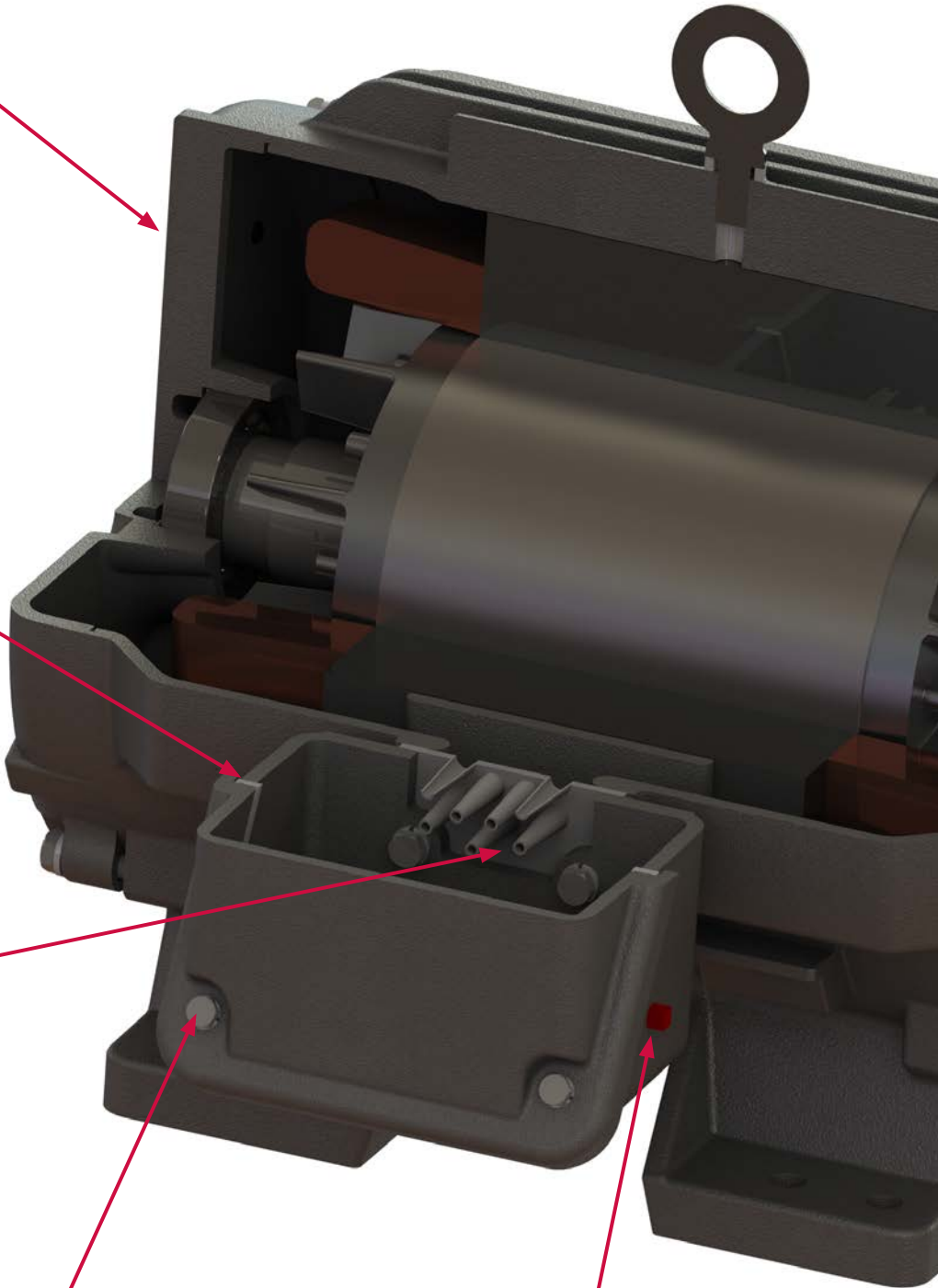
The lead separator gasket serves as two main functions. It prevents moisture from entering the stator via the conduit box and secondly it separates and protects the leads.

Stainless Steel Hardware:

Stainless steel hardware is essential for humid or wet environments.

Conduit Box Plugs:

Threaded plugs at each end of the conduit box makes the removal of moisture simple.



Cast Iron Construction:

Cast Iron construction with an epoxy paint finish gives the motor a robust advantage over the corrosive environment.

Vertical Lifting Provisions:

In addition to the eyebolt, the motors come equipped for vertical lifting. A tapped drive end shaft and opposite drive end endplate allow the motor to be lifted vertically. The eyebolt can be easily installed for any desirable lifting configuration.

Face Drains On Each End:

For Vertical shaft up or down applications. Two face drains at each end prevent moisture from building up inside the motor. T-Drains are strategically placed to allow efficient drainage in the motor.

A triple layer barrier system consisting of a lip contact seal, v-ring slinger and dome slinger provide protection against the ingress of water when the motor is mounted in any position.

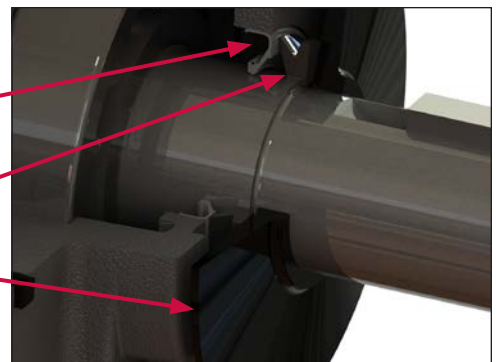
Horizontal Drains On Each End:

T-drains conveniently located at each end of the motor allow for condensation to escape.

Lip Contact Seal

V-Ring Slinger

Dome Slinger



**Cooling Tower Motor
Totally Enclosed Air Over
Cast Iron, Three Phase**

HP	RPM	NEMA Frame	Catalog Number	List	Multi. Sym.	"C" Dim	Aprx Wt. (lb)	Full Load Eff.	Voltage	Full Load Amps	Airflow Ft/Min
Standard Efficient											
5	1800	184T	CTM3665T	1095	L1	13.68	105	87.5	208-230/460	6.9	1200
	1200	215T	CTM3768T	1660	L1	19.54	211	87.5	208-230/460	7.5	1200
7.5	1800	213T	CTM3770T	1458	L1	19.54	164	89.5	208-230/460	10.3	1500
	1200	254T	CTM2276T	2025	L1	22.16	229	89.5	208-230/460	10.9	1500
10	1800	215T	CTM3774T	1861	L1	19.54	169	89.5	208-230/460	13	1500
	1200	256T	CTM2332T	2254	L1	23.00	290	89.5	230/460	14.4	1500
15	1800	254T	CTM2333T	2472	L1	22.16	236	91.0	208-230/460	18.5	1500
20	1800	256T	CTM2334T	2756	L1	23.91	245	91.0	230/460	25	1500
25	1800	284T	CTM4103T	3341	L1	25.78	315	92.4	230/460	29	1500
30	1800	286T	CTM4104T	4010	L1	25.78	322	92.4	230/460	36	1500
40	1800	324T	CTM4110T	5334	L1	28.38	554	93.0	230/460	47	2000
Premium Efficient											
5	1800	184T	ECTM3665T	1239	L1	13.68	119	89.5	208-230/460	6.6	1200
	1200	215T	ECTM3768T	1968	L1	19.54	226	90.2	230/460	7.3	1200
7.5	1800	213T	ECTM3770T	1653	L1	19.54	170	91.7	208-230/460	9.5	1500
	1200	254T	ECTM2276T	2802	L1	23.00	302	91.0	230/460	11	1500
10	1800	213T	ECTM3774T	2218	L1	19.54	231	91.7	208-230/460	12.2	1500
	1200	256T	ECTM2332T	3201	L1	23.00	322	91.0	230/460	14.4	1500
15	1800	254T	ECTM2333T	2944	L1	23.00	268	92.4	230/460	18.1	1500
	1200	284T	ECTM4100T	4268	L1	25.63	382	91.7	230/460	20	1500
20	1800	256T	ECTM2334T	3284	L1	23.00	303	93.0	230/460	24	1500
25	1800	284T	ECTM4103T	4042	L1	25.63	420	93.6	230/460	30	1500
30	1800	286T	ECTM4104T	4797	L1	25.63	437	93.6	230/460	38	1500
40	1800	324T	ECTM4110T	6273	L1	28.38	578	94.1	230/460	48	1500
50	1800	326T	ECTM4115T	7500	L1	28.38	700	94.5	230/460	58	2000
60	1800	364T	ECTM4314T	9863	L1	29.70	835	95.0	230/460	68	2000



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