

FOOD & BEVERAGE

Baldor-Reliance® Food Safe

Stainless steel NEMA motors

BALDOR • RELIANCE



- Food safety first priority of design
- Reliability in intense cleaning environments
- Worker safety from installation through operation

Food & beverage



Baldor-Reliance Food Safe motors

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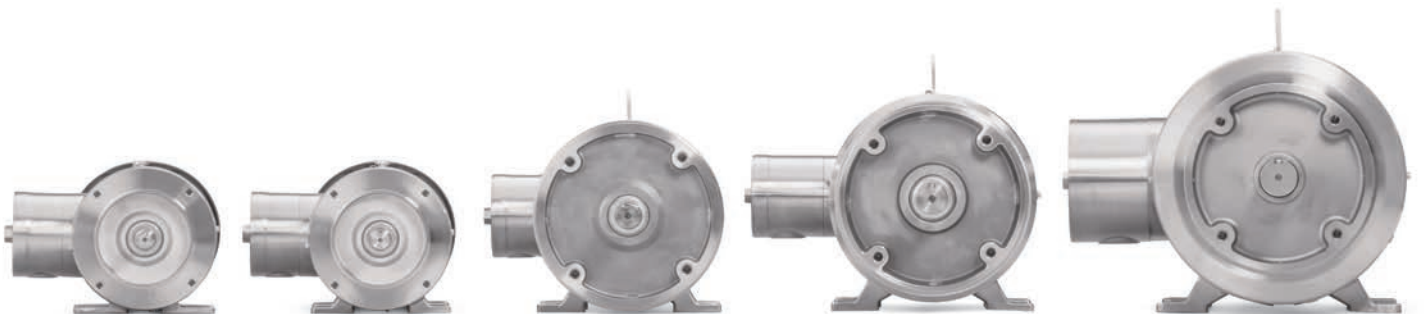
All food processing equipment should be designed, used, and maintained with food safety principles in mind. Violations of these practices can cost companies thousands, if not millions, to resolve. It is important that companies consider not only the initial purchase price, but also the total cost of ownership (TCO), including the cleanability and reliability of the equipment, provided by suppliers who understand the principles of sanitary design.

Baldor-Reliance Food Safe motors, designed with smooth contours and advanced sealing, exceed IP69K for water to maximize motor life in high pressure, sanitary cleaning environments.



Food safety was our first priority of design

As the name implies, our number one design criteria is around food safety. Over the course of 30 years producing motors for the food & beverage industry, we continue to incorporate customer feedback in our designs. The number one ongoing concern and focus is food safety. Seeking the use of equipment that meets (and exceeds) sanitary design principles, limiting their risk and potential liability.



Reliability & safety

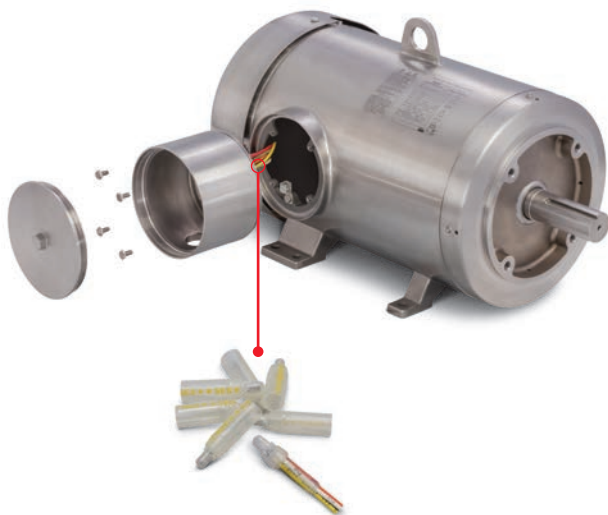


Reliability in intense cleaning environments

How do you know if your facility's equipment is able to withstand Clean in Place (CIP) procedures? The International Electrotechnical Commission (IEC) has defined an ingress protection code for enclosures called IP69K, which addresses actual CIP procedures utilizing high pressure, high temperature, and close-range cleaning methods. Baldor-Reliance Food Safe motors meet this rating due to the smooth contour and finish along with continuous welds to eliminate harboring points for bacteria to grow, survive and reproduce while giving enough space to access the minor crevices for proper sanitation. Internal and external shaft seals on both ends protect against ingress at shaft extension points.

The product line spans single and three phase ratings in foot mounted and footless configurations providing equipment and application flexibility. Foot mounted designs meet NEMA standard mounting dimensions with continuously welded independent feet allowing easier access and clearance for proper cleaning procedures.

Single phase models have a single conduit box for the capacitor and lead connections. Typical single phase motors have accessory boxes located at the F3 position of the motor, creating more opportunities for contaminants and water to enter the capacitor connections, or worse, the motor windings.



Worker safety from installation through operation

When it comes time for your maintenance engineer to replace the existing motor with a new Baldor-Reliance Food Safe motor, you can rest assured there is no additional rerouting of your power source leads or rotating motor orientation. We designed a 3-piece, O-ring sealed rotatable conduit box for installation flexibility. Color-coded leads ensure proper connections, with heat shrink connectors that provide a waterproof seal.

Availability

Built in US manufacturing facilities, with footless ratings from 1/2 up to 15 horsepower and foot mounted ratings from 1/2 through 30 horsepower.

Three phase, totally enclosed, C-Face, foot mounted, encapsulated

Hp	RPM	NEMA frame	Enclosure	Catalog number	List price	Mult. sym.	"C" dim.	Aprx. wt. (lb.)	Full load efficiency	Voltage	Full load amps	
1/2	3600	56C	TENV	CFSWDM3537-E	1,624	FS	11.78	50	84	208-230/460	0.7	
	1800	56C	TENV	CFSWDM3538-E	1,648	FS	11.78	46	84	208-230/460	0.9	
	1200	56C	TENV	CFSWDM3539-E	1,980	FS	12.78	37	77	208-230/460	0.9	
3/4	3600	56C	TENV	CFSWDM3541-E	1,678	FS	11.78	53	86.5	208-230/460	1	
	1800	56C	TENV	CFSWDM3542-E	1,704	FS	12.78	58	84	208-230/460	1.3	
	1200	56C	TENV	CFSWDM3543-E	2,035	FS	13.67	63	82.5	208-230/460	1.3	
1	3600	56C	TENV	CFSWDM3545-E	1,762	FS	11.78	59	82.5	230/460	1.4	
	1800	56C	TENV	CFSWDM3546-E	1,780	FS	12.78	59	85.5	230/460	1.5	
		143TC	TENV	CFSWDM3546T-E	1,794	FS	12.84	59	85.5	230/460	1.5	
	1200	56C	TENV	CFSWDM3556-E	2,041	FS	15.08	68	84	230/460	1.7	
56C		TEFC	CFSWDM3556-E	2,104	FS	14.83	73	82.5	230/460	1.7		
1-1/2	3600	56C	TENV	CFSWDM3550-E	1,785	FS	13.67	62	85.5	230/460	1.8	
		143TC	TENV	CFSWDM3550T-E	1,800	FS	13.72	63	85.5	230/460	1.8	
		56C	TENV	CFSWDM3554-E	1,761	FS	15.04	66	86.5	230/460	2.1	
	1800	56C	TEFC	CFSWDM3554-E	1,824	FS	13.96	50	86.5	230/460	2.2	
		145TC	TENV	CFSWDM3554T-E	1,812	FS	15.09	68	86.5	230/460	2.1	
		145TC	TEFC	CFSWDM3554T-E	1,875	FS	14.03	68	86.5	230/460	2.2	
	1200	182TC	TEFC	CFSWDM3607T-E	2,332	FS	18.89	68	87.5	230/460	2.6	
56C		TENV	CFSWDM3555-E	2,104	FS	15.04	64	88.5	230/460	2.4		
2	3600	56C	TEFC	CFSWDM3555-E	2,199	FS	14.90	60	86.5	230/460	2.5	
		145TC	TENV	CFSWDM3555T-E	2,150	FS	15.09	64	88.5	230/460	2.4	
		145TC	TEFC	CFSWDM3555T-E	2,213	FS	14.90	60	86.5	230/460	2.5	
	1800	56C	TENV	CFSWDM3558-E	2,135	FS	15.09	56	88.5	230/460	2.8	
		56C	TEFC	CFSWDM3558-E	2,198	FS	13.96	72	86.5	230/460	2.8	
		145TC	TENV	CFSWDM3558T-E	2,176	FS	15.09	56	88.5	230/460	2.8	
3	1200	184TC	TEFC	CFSWDM3614T-E	2,589	FS	18.89	125	88.5	230/460	3.5	
		145TC	TEFC	CFSWDM3559T-E	2,608	FS	16.28	81	86.5	230/460	3.7	
	3600	182TC	TENV	CFSWDM3610T-E	2,699	FS	18.89	93	89.5	230/460	3.5	
		182TC	TENV	CFSWDM3611T-E	2,607	FS	18.89	60	89.5	230/460	4	
		182TC	TEFC	CFSWDM3611T-E	2,688	FS	18.89	83	89.5	230/460	4.2	
	1200	213TC	TEFC	CFSWDM3704T-E	3,411	FS	21.37	158	89.5	230/460	4.5	
		3600	184TC	TEFC	CFSWDM3613T-E	2,846	FS	17.39	84	89.5	230/460	5.6
	5	1800	184TC	TEFC	CFSWDM3615T-E	2,867	FS	18.89	101	89.5	230/460	6.5
		1200	215TC	TEFC	CFSWDM3708T-E	4,040	FS	22.12	179	89.5	230/460	7.4
	7-1/2	3600	213TC	TEFC	CFSWDM3709T-E	3,570	FS	19.50	129	91	230/460	8.3
1800		213TC	TEFC	CFSWDM3710T-E	3,644	FS	20.68	136	91.7	230/460	9.5	
		1200	254TC	TEFC	CFSWDM22976T-E	6,936	FS	24.18	255	91	230/460	10.7
10	3600	215TC	TEFC	CFSWDM3711T-E	4,048	FS	20.68	149	91.7	230/460	10.6	
	1800	215TC	TEFC	CFSWDM3714T-E	4,290	FS	22.12	187	92.4	230/460	12.5	
		1200	256TC	TEFC	CFSWDM23932T-E	7,885	FS	25.18	287	91	230/460	15.1
	15	3600	215TC	TEFC	CFSWDM3713T-E	6,071	FS	22.12	188	91.7	230/460	17
254TC			TEFC	CFSWDM23994T-E	7,032	FS	24.18	256	91	230/460	16.5	
1800		254TC	TEFC	CFSWDM23933T-E	6,932	FS	24.18	281	92.4	230/460	17.5	
20	1200	284TC	TEFC	CFSWDM41900T	8,880	FS	28.14	488	91.7	230/460	20	
		3600	256TC	TEFC	CFSWDM41906T-E	7,970	FS	25.18	295	91	230/460	21.5
	1800	256TC	TEFC	CFSWDM23934T-E	7,929	FS	25.18	287	93	230/460	23.4	
		1200	286TC	TEFC	CFSWDM41902T	11,355	FS	28.14	493	91.7	230/460	26
25	3600	284TC	TEFC	CFSWDM41907T	10,196	FS	28.14	431	91.7	230/460	28	
	1800	284TC	TEFC	CFSWDM41903T	10,139	FS	28.14	471	93.6	230/460	31	
30	3600	286TC	TEFC	CFSWDM41908T	11,726	FS	28.14	445	91.7	230/460	34	
	1800	286TC	TEFC	CFSWDM41904T	11,660	FS	28.14	485	93.6	230/460	36	

NOTE: 284-286TC not encapsulated

Three phase, 575V, totally enclosed, C-Face, foot mounted, encapsulated

Hp	RPM	NEMA frame	Enclosure	Catalog number	List price	Mult. sym.	"C" dim.	Aprx. wt. (lb.)	Full load efficiency	Voltage	Full load amps
1/2	3600	56C	TENV	CFSWDM3537-5E	1,624	FS	11.78	35	84	575	0.6
	1800	56C	TENV	CFSWDM3538-5E	1,648	FS	11.78	35	84	575	0.7
3/4	1800	56C	TENV	CFSWDM3542-5E	1,704	FS	12.78	40	84	575	1
1	1800	56C	TENV	CFSWDM3546-5E	1,780	FS	12.78	43	85.5	575	1.2
		143TC	TENV	CFSWDM3546T-5E	1,794	FS	12.84	43	85.5	575	1.2
1-1/2	1800	56C	TEFC	CFSWDM3554-5E	1,824	FS	13.96	62	86.5	575	1.7
		145TC	TEFC	CFSWDM3554T-5E	1,875	FS	14.03	64	86.5	575	1.7
2	1800	145TC	TEFC	CFSWDM3558T-5E	2,239	FS	14.03	72	86.5	575	2.3
3	3600	145TC	TEFC	CFSWDM3559T-5E	2,608	FS	14.03	81	86.5	575	2.9
	1800	182TC	TEFC	CFSWDM3611T-5E	2,688	FS	18.89	112	89.5	575	3.3
5	3600	184TC	TEFC	CFSWDM3613T-5E	2,846	FS	17.39	110	89.5	575	4.5
	1800	184TC	TEFC	CFSWDM3615T-5E	2,867	FS	18.89	125	89.5	575	5.1

Single phase, totally enclosed, C-Face, foot mounted

Hp	RPM	NEMA frame	Enclosure	Catalog number	List price	Mult. sym.	"C" dim.	Aprx. wt. (lb.)	Full load efficiency	Voltage	Full load amps
1/2	3600	56C	TEFC	CFSWDL3503	1,381	FS	13.96	33	59.5	115/230	3.6
	1800	56C	TEFC	CFSWDL3504	1,480	FS	13.96	41	70	115/230	3.5
3/4	3600	56C	TEFC	CFSWDL3506	1,529	FS	13.96	33	64	115/230	4.6
	1800	56C	TEFC	CFSWDL3507	1,619	FS	14.83	47	70	115/230	4.6
1	3600	56C	TEFC	CFSWDL3509	1,632	FS	13.96	41	68	115/230	5.8
	1800	56C	TEFC	CFSWDL3510	1,741	FS	16.26	63	72	115/230	5.8

NOTE: Single phase not encapsulated

Three phase, totally enclosed, C-Face, footless, encapsulated

Hp	RPM	NEMA frame	Enclosure	Catalog number	List price	Mult. sym.	"C" dim.	Aprx. wt. (lb.)	Full load efficiency	Voltage	Full load amps
1/2	3600	56C	TENV	VFSWDM3537-E	1,546	FS	11.78	35	84	208-230/460	0.7
	1800	56C	TENV	VFSWDM3538-E	1,573	FS	11.78	35	84	208-230/460	0.9
3/4		56C	TEFC	VFSWDM3538-E	1,636	FS	12.96	35	84	208-230/460	0.9
	3600	56C	TENV	VFSWDM3541-E	1,602	FS	11.78	38	86.5	208-230/460	1
	1800	56C	TENV	VFSWDM3542-E	1,628	FS	12.78	41	84	208-230/460	1.3
		56C	TEFC	VFSWDM3542-E	1,691	FS	13.96	37	84	208-230/460	1.3
1	1200	56C	TENV	VFSWDM3543-E	1,959	FS	13.67	45	82.5	208-230/460	1.3
	3600	56C	TENV	VFSWDM3545-E	1,685	FS	11.78	37	82.5	230/460	1.4
		56C	TENV	VFSWDM3546-E	1,702	FS	12.78	37	85.5	230/460	1.5
	1800	56C	TEFC	VFSWDM3546-E	1,767	FS	13.96	37	85.5	230/460	1.5
		143TC	TENV	VFSWDM3546T-E	1,719	FS	12.78	37	85.5	230/460	1.5
		143TC	TEFC	VFSWDM3546T-E	1,782	FS	13.96	37	85.5	230/460	1.5
1-1/2	1200	56C	TEFC	VFSWDM3556-E	2,028	FS	14.83	45	82.5	230/460	1.7
	3600	56C	TENV	VFSWDM3550-E	1,708	FS	13.67	53	85.5	230/460	1.8
		143TC	TENV	VFSWDM3550T-E	1,724	FS	13.67	50	85.5	230/460	1.8
		56C	TENV	VFSWDM3554-E	1,685	FS	15.04	59	86.5	230/460	2.1
	1800	56C	TEFC	VFSWDM3554-E	1,748	FS	13.96	45	86.5	230/460	2.2
		145TC	TENV	VFSWDM3554T-E	1,736	FS	15.04	59	86.5	230/460	2.1
		145TC	TEFC	VFSWDM3554T-E	1,799	FS	13.96	45	86.5	230/460	2.2
		56C	TENV	VFSWDM3555-E	2,029	FS	15.04	63	88.5	230/460	2.4
2	3600	145TC	TENV	VFSWDM3555T-E	2,074	FS	15.04	63	88.5	230/460	2.4
		145TC	TEFC	VFSWDM3555T-E	2,137	FS	14.83	50	86.5	230/460	2.5
		56C	TENV	VFSWDM3558-E	2,059	FS	15.04	63	88.5	230/460	2.8
	1800	56C	TEFC	VFSWDM3558-E	2,122	FS	13.96	56	86.5	230/460	2.8
		145TC	TENV	VFSWDM3558T-E	2,100	FS	15.04	63	88.5	230/460	2.8
		145TC	TEFC	VFSWDM3558T-E	2,164	FS	13.96	63	86.5	230/460	2.8
3	3600	145TC	TEFC	VFSWDM3559T-E	2,529	FS	16.21	63	86.5	230/460	3.7
		182TC	TENV	VFSWDM3610T-E	2,602	FS	17.05	96	89.5	230/460	3.5
	1800	182TC	TENV	VFSWDM3611T-E	2,510	FS	17.05	101	89.5	230/460	4
		182TC	TEFC	VFSWDM3611T-E	2,591	FS	18.89	86	89.5	230/460	4.2
5	3600	184TC	TEFC	VFSWDM3613T-E	2,749	FS	17.39	81	89.5	230/460	5.6
	1800	184TC	TEFC	VFSWDM3615T-E	2,771	FS	18.89	101	89.5	230/460	6.5
7-1/2	3600	213TC	TEFC	VFSWDM3709T-E	3,438	FS	19.49	131	91	230/460	8.3
	1800	213TC	TEFC	VFSWDM3710T-E	3,511	FS	20.68	136	91.7	230/460	9.5
10	3600	215TC	TEFC	VFSWDM3711T-E	3,916	FS	20.68	149	91.7	230/460	10.6
	1800	215TC	TEFC	VFSWDM3714T-E	4,158	FS	22.12	187	92.4	230/460	12.5
15	3600	215TC	TEFC	VFSWDM3713T-E	5,939	FS	22.12	187	91.7	230/460	17

Single phase, totally enclosed, C-Face, footless

Hp	RPM	NEMA frame	Enclosure	Catalog number	List price	Mult. sym.	"C" dim.	Aprx. wt. (lb.)	Full load efficiency	Voltage	Full load amps
1/2	3600	56C	TEFC	VFSWDL3503	1,187	FS	13.96	33	59.5	115/230	3.6
	1800	56C	TEFC	VFSWDL3504	1,277	FS	13.96	41	70	115/230	3.5
3/4	3600	56C	TEFC	VFSWDL3506	1,321	FS	13.96	33	64	115/230	4.6
	1800	56C	TEFC	VFSWDL3507	1,403	FS	14.83	47	70	115/230	4.6
1	3600	56C	TEFC	VFSWDL3509	1,415	FS	13.96	41	68	115/230	5.8
	1800	56C	TEFC	VFSWDL3510	1,513	FS	16.26	63	72	115/230	5.8

NOTE: Single phase not encapsulated



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