

Vane motors LZB54-L

0.79 – 1.20 kW
1.06 – 1.61 hp

EX certification valid for fixture mounted use only with a maximum surrounding temperature of +40°C (104°F).

For optional vanes and accessories see chapter Accessories.



Data at air pressure 6.3 bar (91 psi)

Model Lubricated	Max output		Speed at max output	Torque at max output		Min starting torque		Stall torque		Free speed	Air consumption at max output		Weight		Shaft loading code ¹⁾	ATEX code	Ordering No.
	kW	hp	r/min	Nm	lb-ft	Nm	lb-ft	Nm	lb-ft	r/min	l/s	cfm	kg	lb			
Clockwise rotation (Keyed shaft)																	
LZB54-L-A180-11	1.20	1.61	10000	1.15	0.85	1.8	1.33	2.3	1.7	17500	22.0	47.0	2.4	5.2	g	Ex II 2GD h T4 IIC T110°C	8411 0560 08
LZB54-L-A050-11	1.20	1.61	2900	4.0	3.0	6.4	4.7	8.0	5.9	5100	22.0	47.0	2.4	5.2	g	Ex II 2GD h T4 IIC T110°C	8411 0560 16
LZB54-L-A030-11	1.20	1.61	1750	6.6	4.9	10.5	7.7	13.2	9.7	3100	22.0	47.0	2.4	5.2	g	Ex II 2GD h T4 IIC T110°C	8411 0560 24
LZB54-L-A020-11	1.20	1.61	1300	8.9	6.6	14	10.3	17.8	13.1	2300	22.0	47.0	2.4	5.2	g	Ex II 2GD h T4 IIC T110°C	8411 0560 32
LZB54-L-A010-11	1.18	1.58	630	18	13.3	29	21	36	27	1050	22.0	47.0	2.5	5.5	g	Ex II 2GD h T6 IIC T85°C	8411 0560 40
LZB54-L-A007-11	1.18	1.58	380	30	22	48	35	60	44	650	22.0	47.0	2.5	5.5	g	Ex II 2GD h T6 IIC T85°C	8411 0560 57
LZB54-L-A005-11	1.18	1.58	280	40	30	65	48	80	59	500	22.0	47.0	2.5	5.5	g	Ex II 2GD h T6 IIC T85°C	8411 0560 65
LZB54-L-A0025-11	1.15	1.54	150	72	53	117	86	144	106	270	22.0	47.0	4.7	10.3	h	Ex II 2GD h T6 IIC T85°C	8411 0560 73
LZB54-L-A0017-11	1.15	1.54	95	119	88	193	142	238	176	160	22.0	47.0	4.7	10.3	h	Ex II 2GD h T6 IIC T85°C	8411 0560 81
LZB54-L-A0012-11	1.15	1.54	70	161	119	261	193	322	237	120	22.0	47.0	4.7	10.3	h	Ex II 2GD h T6 IIC T85°C	8411 0560 99
Anti-clockwise rotation (Keyed shaft)																	
LZB54-L-AV180-11	1.20	1.61	10000	1.15	0.85	1.8	1.33	2.3	1.7	17500	22.0	47.0	2.4	5.2	g	Ex II 2GD h T4 IIC T110°C	8411 0564 04
LZB54-L-AV050-11	1.20	1.61	2900	4.0	3.0	6.4	4.7	8.0	5.9	5100	22.0	47.0	2.4	5.2	g	Ex II 2GD h T4 IIC T110°C	8411 0564 12
LZB54-L-AV030-11	1.20	1.61	1750	6.6	4.9	10.5	7.7	13.2	9.7	3100	22.0	47.0	2.4	5.2	g	Ex II 2GD h T4 IIC T110°C	8411 0564 20
LZB54-L-AV020-11	1.20	1.61	1300	8.9	6.6	14	10.3	17.8	13.1	2300	22.0	47.0	2.4	5.2	g	Ex II 2GD h T4 IIC T110°C	8411 0564 38
LZB54-L-AV010-11	1.18	1.58	630	18	13.3	29	21	36	27	1050	22.0	47.0	2.5	5.5	g	Ex II 2GD h T6 IIC T85°C	8411 0564 46
LZB54-L-AV007-11	1.18	1.58	380	30	22	48	35	60	44	650	22.0	47.0	2.5	5.5	g	Ex II 2GD h T6 IIC T85°C	8411 0564 53
LZB54-L-AV005-11	1.18	1.58	280	40	30	65	48	80	59	500	22.0	47.0	2.5	5.5	g	Ex II 2GD h T6 IIC T85°C	8411 0564 61
LZB54-L-AV0025-11	1.15	1.54	150	72	53	117	86	144	106	270	22.0	47.0	4.7	10.3	h	Ex II 2GD h T6 IIC T85°C	8411 0564 79
LZB54-L-AV0017-11	1.15	1.54	95	119	88	193	142	238	176	160	22.0	47.0	4.7	10.3	h	Ex II 2GD h T6 IIC T85°C	8411 0564 87
LZB54-L-AV0012-11	1.15	1.54	70	161	119	261	193	322	237	120	22.0	47.0	4.7	10.3	h	Ex II 2GD h T6 IIC T85°C	8411 0564 95
Reversible (Keyed shaft)																	
LZB54-L-AR130-11	0.82	1.10	6800	1.15	0.85	1.4	1.03	2.3	1.7	12000	18.0	38.0	2.4	5.2	g	Ex II 2GD h T4 IIC T110°C	8411 0563 05
LZB54-L-AR035-11	0.82	1.10	1960	4.0	3.0	5.1	3.8	8.0	5.9	3700	18.0	38.0	2.4	5.2	g	Ex II 2GD h T4 IIC T110°C	8411 0563 13
LZB54-L-AR020-11	0.82	1.10	1190	6.6	4.9	8.4	6.2	13.2	9.7	2300	18.0	38.0	2.4	5.2	g	Ex II 2GD h T4 IIC T110°C	8411 0563 21
LZB54-L-AR015-11	0.82	1.10	880	8.9	6.6	11	8.1	17.8	13.1	1700	18.0	38.0	2.4	5.2	g	Ex II 2GD h T4 IIC T110°C	8411 0563 39
LZB54-L-AR008-11	0.80	1.07	430	18	13.3	23	17	36	27	800	18.0	38.0	2.5	5.5	g	Ex II 2GD h T6 IIC T85°C	8411 0563 47
LZB54-L-AR005-11	0.80	1.07	260	30	22	38	28	60	44	500	18.0	38.0	2.5	5.5	g	Ex II 2GD h T6 IIC T85°C	8411 0563 54
LZB54-L-AR004-11	0.80	1.07	190	40	30	51	38	80	59	370	18.0	38.0	2.5	5.5	g	Ex II 2GD h T6 IIC T85°C	8411 0563 62
LZB54-L-AR0020-11	0.79	1.06	105	72	53	93	69	144	106	190	18.0	38.0	4.7	10.3	h	Ex II 2GD h T6 IIC T85°C	8411 0563 70
LZB54-L-AR0012-11	0.79	1.06	65	119	88	153	113	238	176	120	18.0	38.0	4.7	10.3	h	Ex II 2GD h T6 IIC T85°C	8411 0563 88
LZB54-L-AR0009-11	0.79	1.06	47	161	119	207	153	322	237	90	18.0	38.0	4.7	10.3	h	Ex II 2GD h T6 IIC T85°C	8411 0563 96

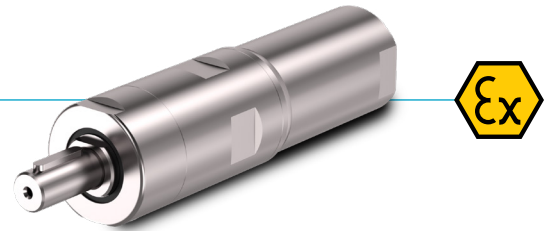
¹⁾ For Shaft loading curves, see page 14.

Vane motors LTB54-RL

Stainless steel and lubrication free

0.80 – 1.20 kW

1.07 – 1.61hp



Material in parts:

- Casing and front part stainless steel: ISO 683/XIII Type 17, SS 14 2346, DIN 17440 X12CrNiS188
- Outgoing shaft and gear rim stainless steel: ISO 683/XIII Type 9b, SS 14 2321, DIN 17440 X22CrNi17
- 100% Silicon free
- Grease that conforms to Food Grade regulations

EX certification valid for fixture mounted use only with a maximum surrounding temperature of +40°C (104°F).

For optional stainless steel motor cell, vane kits and other accessories see chapter Accessories

Data at air pressure 6.3 bar (91 psi)

Model	Max Output		Speed at max output	Torque at max output		Min starting torque		Stall torque		Free speed	Air consumption at max output		weight		Shaft loading code ¹⁾	ATEX code	Ordering No
Lubrication free	Kw	hp	r/min	Nm	lb-ft	Nm	lb-ft	Nm	lb-ft	r/min	l/s	cfm	kg	lb			
Clockwise rotation (Keyed shaft)																	
LTB54-RL-A180-11	1.20	1.61	10000	1.15	0.85	1.80	1.33	2.30	1.70	17500	22.00	47.00	3.00	6.6	g	Ex II 2GD h T4 IIC T110°C	8411 0569 77
LTB54-RL-A050-11	1.20	1.61	2900	4.00	3.00	6.40	4.70	8.00	5.90	5100	22.00	47.00	3.00	6.6	g	Ex II 2GD h T4 IIC T110°C	8411 0569 85
LTB54-RL-A030-11	1.20	1.61	1750	6.60	4.90	10.50	7.70	13.20	9.70	3100	22.00	47.00	3.00	6.6	g	Ex II 2GD h T4 IIC T110°C	8411 0569 93
LTB54-RL-A020-11	1.20	1.61	1300	8.90	6.60	14.00	10.30	17.80	13.10	2300	22.00	47.00	3.00	6.6	g	Ex II 2GD h T4 IIC T110°C	8411 0570 03
LTB54-RL-A010-11	1.18	1.58	630	18	13.30	29	21.00	36	27	1050	22.00	47.00	3.10	6.8	g	Ex II 2GD h T4 IIC T110°C	8411 0570 11
LTB54-RL-A007-11	1.18	1.58	380	30	22.00	48	35.00	60	44	650	22.00	47.00	3.10	6.8	g	Ex II 2GD h T4 IIC T110°C	8411 0570 29
LTB54-RL-A005-11	1.18	1.58	280	40	30.00	65	48.00	80	59	500	22.00	47.00	3.10	6.8	g	Ex II 2GD h T4 IIC T110°C	8411 0570 37
Reversible (Keyed shaft)																	
LTB54-RL-AR130-11	0.82	1.10	6800	1.15	0.85	1.40	1.03	2.30	1.70	12000	18.00	38.00	3.00	6.6	g	Ex II 2GD h T4 IIC T110°C	8411 0570 45
LTB54-RL-AR035-11	0.82	1.10	1960	4.00	3.00	5.10	3.80	8.00	5.90	3700	18.00	38.00	3.00	6.6	g	Ex II 2GD h T4 IIC T110°C	8411 0570 52
LTB54-RL-AR020-11	0.82	1.10	1190	6.60	4.90	8.40	6.20	13.20	9.70	2300	18.00	38.00	3.00	6.6	g	Ex II 2GD h T4 IIC T110°C	8411 0570 60
LTB54-RL-AR015-11	0.82	1.10	880	8.90	6.60	11.00	8.10	17.80	13	1700	18.00	38.00	3.00	6.6	g	Ex II 2GD h T4 IIC T110°C	8411 0570 78
LTB54-RL-AR008-11	0.80	1.07	430	18	13.30	23	17.00	36	27	800	18.00	38.00	3.10	6.8	g	Ex II 2GD h T4 IIC T110°C	8411 0570 86
LTB54-RL-AR005-11	0.80	1.07	260	30	22.00	38	28.00	60	44	500	18.00	38.00	3.10	6.8	g	Ex II 2GD h T4 IIC T110°C	8411 0570 94
LTB54-RL-AR004-11	0.80	1.07	190	40	30.00	51	38.00	80	59	370	18.00	38.00	3.10	6.8	g	Ex II 2GD h T4 IIC T110°C	8411 0571 00

¹⁾ For Shaft loading curves, see page 14.

NOTE: - If running motors with 100% dry air and no lubrication, performance can be reduced with 5-15% at max output.
- To optimize life time for a lubrication free motor, use lubricated air if the application allows it.