

Vane motors LZB14-L

Lubrication free

0.11 – 0.16 kW

0.15 – 0.21 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)

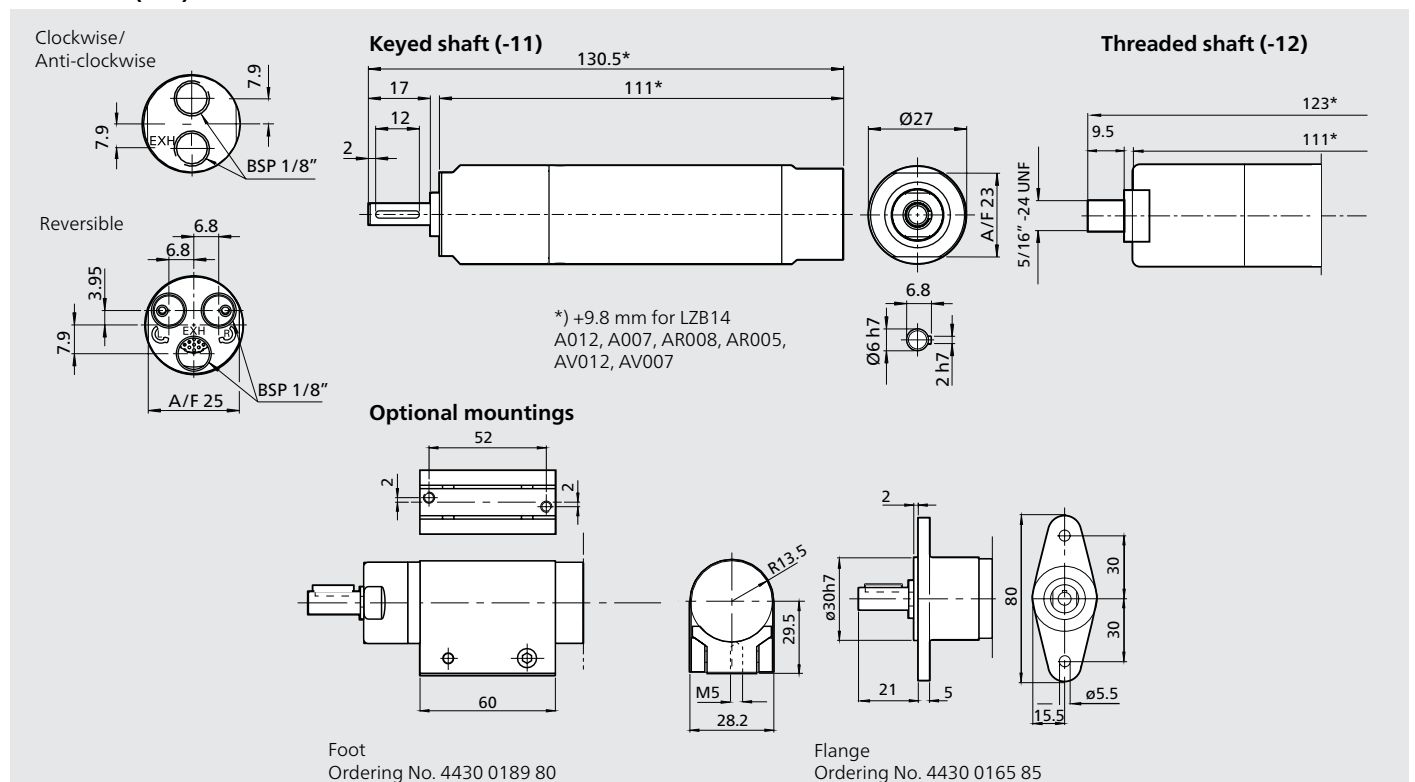
Model	Max output	Speed at max output	Torque at max output	Min starting torque	Stall torque	Free speed	Air consumption at max output	Weight	Shaft loading code ¹⁾	ATEX code	Ordering No.
Lubrication free	kW hp	r/min	Nm lb-ft	Nm lb-ft	Nm lb-ft	r/min	l/s cfm	kg lb			
Clockwise rotation (Keyed shaft)											
LZB14-L-A190-11	0.16 0.21	9100	0.17 0.13	0.29 0.21	0.34 0.25	19500	4.0 8.5	0.30 0.66	a	Ex II 2GD h T4 IIC T110°C	8411 0113 00
LZB14-L-A048-11	0.16 0.21	2200	0.7 0.52	1.23 0.91	1.4 1.03	4800	4.0 8.5	0.30 0.66	a	Ex II 2GD h T6 IIC T85°C	8411 0113 18
LZB14-L-A029-11	0.16 0.21	1330	1.15 0.85	2 1.48	2.3 1.7	2900	4.0 8.5	0.30 0.66	a	Ex II 2GD h T6 IIC T85°C	8411 0113 26
LZB14-L-A012-11	0.16 0.21	530	2.9 2.1	5.1 3.8	5.8 4.28	1140	4.0 8.5	0.33 0.73	a	Ex II 2GD h T6 IIC T85°C	8411 0113 34
LZB14-L-A007-11	0.16 0.21	320	4.8 3.5	8.5 6.27	9.6 7.1	700	4.0 8.5	0.33 0.73	a	Ex II 2GD h T6 IIC T85°C	8411 0113 42
Clockwise rotation (Threaded shaft)											
LZB14-L-A190-12	0.16 0.21	9100	0.17 0.13	0.29 0.21	0.34 0.25	19500	4.0 8.5	0.30 0.66	a	Ex II 2GD h T4 IIC T110°C	8411 0114 09
LZB14-L-A048-12	0.16 0.21	2200	0.7 0.52	1.23 0.91	1.4 1.03	4800	4.0 8.5	0.30 0.66	a	Ex II 2GD h T6 IIC T85°C	8411 0114 17
LZB14-L-A029-12	0.16 0.21	1330	1.15 0.85	2.0 1.48	2.3 1.7	2900	4.0 8.5	0.30 0.66	a	Ex II 2GD h T6 IIC T85°C	8411 0114 25
LZB14-L-A012-12	0.16 0.21	530	2.9 2.1	5.1 3.8	5.8 4.28	1140	4.0 8.5	0.33 0.73	a	Ex II 2GD h T6 IIC T85°C	8411 0114 33
LZB14-L-A007-12	0.16 0.21	320	4.8 3.5	8.5 6.27	9.6 7.1	700	4.0 8.5	0.33 0.73	a	Ex II 2GD h T6 IIC T85°C	8411 0114 41
Anti-clockwise rotation (Keyed shaft)											
LZB14-L-AV190-11	0.16 0.21	9100	0.17 0.13	0.23 0.17	0.34 0.25	19500	4.0 8.5	0.30 0.66	a	Ex II 2GD h T4 IIC T110°C	8411 0117 06
LZB14-L-AV048-11	0.16 0.21	2200	0.7 0.52	0.99 0.73	1.4 1.03	4800	4.0 8.5	0.30 0.66	a	Ex II 2GD h T6 IIC T85°C	8411 0117 14
LZB14-L-AV029-11	0.16 0.21	1330	1.15 0.85	1.63 1.2	2.3 1.7	2900	4.0 8.5	0.30 0.66	a	Ex II 2GD h T6 IIC T85°C	8411 0117 22
LZB14-L-AV012-11	0.16 0.21	530	2.9 2.1	4.1 3.0	5.8 4.3	1140	4.0 8.5	0.33 0.73	a	Ex II 2GD h T6 IIC T85°C	8411 0117 30
LZB14-L-AV007-11	0.16 0.21	320	4.8 3.5	6.8 5.0	9.6 7.1	700	4.0 8.5	0.33 0.73	a	Ex II 2GD h T6 IIC T85°C	8411 0117 48
Reversible (Keyed shaft)											
LZB14-L-AR140-11	0.11 0.15	7000	0.15 0.11	0.24 0.18	0.3 0.22	13000	3.6 7.6	0.30 0.66	a	Ex II 2GD h T4 IIC T110°C	8411 0115 08
LZB14-L-AR034-11	0.11 0.15	1690	0.62 0.46	1.01 0.74	1.24 0.91	3400	3.6 7.6	0.30 0.66	a	Ex II 2GD h T6 IIC T85°C	8411 0115 16
LZB14-L-AR020-11	0.11 0.15	1020	1.03 0.76	1.67 1.23	2.1 1.5	2000	3.6 7.6	0.30 0.66	a	Ex II 2GD h T6 IIC T85°C	8411 0115 24
LZB14-L-AR008-11	0.11 0.15	410	2.6 1.92	4.2 3.1	5.2 3.8	800	3.6 7.6	0.33 0.73	a	Ex II 2GD h T6 IIC T85°C	8411 0115 32
LZB14-L-AR005-11	0.11 0.15	250	4.3 3.2	6.9 5.1	8.6 6.3	490	3.6 7.6	0.33 0.73	a	Ex II 2GD h T6 IIC T85°C	8411 0115 40

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.

Dimensions (mm)

Conversion factor 1 mm = 0.04 inch



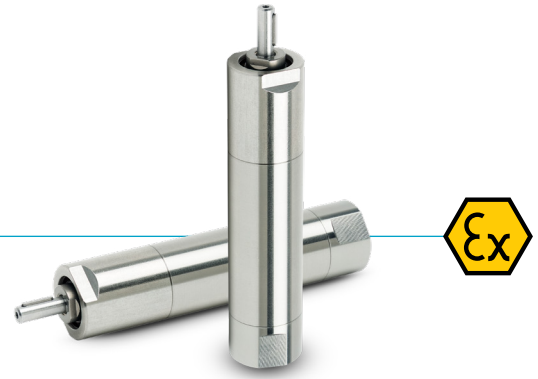
Stainless steel and lubrication free

0.11 – 0.16 kW

0.15 – 0.21 hp

Material in parts:

- Back head and front part stainless steel:
ISO 683/XIII Type 17, SS 14 2346, DIN 17440 X12CrNiS188
- Outgoing shaft and casing/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)																	
LZB14-RL-A190-11	0.16	0.21	9100	0.17	0.13	0.29	0.21	0.34	0.25	19500	4.0	8.5	0.37	0.82	a	Ex II 2GD h T4 IIC T110°C	8411 0122 09
LZB14-RL-A048-11	0.16	0.21	2200	0.70	0.52	1.23	0.91	1.4	1.03	4800	4.0	8.5	0.37	0.82	a	Ex II 2GD h T6 IIC T85°C	8411 0122 17
LZB14-RL-A029-11	0.16	0.21	1330	1.15	0.85	2.0	1.48	2.3	1.7	2900	4.0	8.5	0.37	0.82	a	Ex II 2GD h T6 IIC T85°C	8411 0122 25
LZB14-RL-A012-11	0.16	0.21	530	2.9	2.1	5.1	3.8	5.8	4.3	1140	4.0	8.5	0.40	0.88	a	Ex II 2GD h T6 IIC T85°C	8411 0122 33
LZB14-RL-A007-11	0.16	0.21	320	4.8	3.5	8.5	6.3	9.6	7.1	700	4.0	8.5	0.40	0.88	a	Ex II 2GD h T6 IIC T85°C	8411 0122 41
Reversible (Keyed shaft)																	
LZB14-RL-AR040-11	0.11	0.15	7000	0.15	0.11	0.24	0.18	0.3	0.22	13000	3.6	7.6	0.37	0.82	a	Ex II 2GD h T4 IIC T110°C	8411 0122 58
LZB14-RL-AR034-11	0.11	0.15	1690	0.62	0.46	1.01	0.74	1.24	0.91	3400	3.6	7.6	0.37	0.82	a	Ex II 2GD h T6 IIC T85°C	8411 0122 66
LZB14-RL-AR020-11	0.11	0.15	1020	1.03	0.76	1.67	1.23	2.1	1.5	2000	3.6	7.6	0.37	0.82	a	Ex II 2GD h T6 IIC T85°C	8411 0122 74
LZB14-RL-AR008-11	0.11	0.15	410	2.6	1.92	4.2	3.1	5.2	3.8	800	3.6	7.6	0.40	0.88	a	Ex II 2GD h T6 IIC T85°C	8411 0122 82
LZB14-RL-AR005-11	0.11	0.15	250	4.3	3.2	6.9	5.1	8.6	6.3	490	3.6	7.6	0.40	0.88	a	Ex II 2GD h T6 IIC T85°C	8411 0122 90

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.

Dimensions (mm)

Conversion factor 1 mm = 0.04 inch

