

**MOVE FORWARD TO
THE NEXT GENERATION WITH:**

ABI FUTURE-LINE STAINLESS STEEL ELECTRIC MOTORS

- Sustainable - High quality 316 stainless steel
- Efficient - IE3/IE4 energy class and hygienic design
- Safe - IP69K rating
- Made in the Netherlands

Ideal for
vegetable, fish,
and meat processing.

**HYGIENE
= KEY**



THE FUTURE OF INDUSTRIAL DRIVES IS HERE WITH FUTURE-LINE ELECTRIC MOTORS



The premium design of the ABI Future-Line reflects the focus on quality and innovation

Heavy cleaning or extreme conditions: ABI ensures that Future-Line electric motors deliver optimum results in the most demanding conditions. Care and quality are prioritised, and you reap the benefits. **ABI Future-Line motors are the best available on the market. We set new standards in sustainability and reliability.**

Meet the highest demands of the food industry now 316 Stainless steel: hygienic design, smooth surfaces

- High quality 316 stainless steel for easy cleaning.
- Easy maintenance, minimising downtime and maximising productivity.
- Seamless housing minimises the risk of bacterial contamination.

Easy to install and maintain

The terminal box is located at the rear of the motor

- Easy access to wiring and maintenance.
- Streamlined design, with no protruding parts, saves space and increases safety.
- Minimalist design prevents damage during transport and operation.
- The motor has an M20 threaded hole with blind plug as standard.



ABI Future-Line meets all your specific requirements Even when it comes to unique shaft and flange requirements

- ABI's in-house engineering team will be happy to assist you with customised solutions.
- Do you need a unique shaft length, special flange configuration or other modifications? Our experienced engineers will bring your ideas to life.
- Our in-house machining department ensures full control of the production process.
- Production in the Netherlands guarantees short lead times and the highest quality standards.

IE3/IE4 energy class: lower running costs and high reliability.

All Future-Line electric motors meet the requirements of energy class IE3/IE4. This means low energy consumption and minimal temperature rise during operation. So, with Future-Line electric motors, you can always count on the best performance and the smallest possible carbon footprint.



Extra: optional brake and (flange) encoders

The engines in the Future-Line are constantly undergoing further development. The latest features we are working on include:

- An optional brake for even greater flexibility in applications requiring precision and control.
- (Flange) encoders to integrate accurate position feedback into the motors.

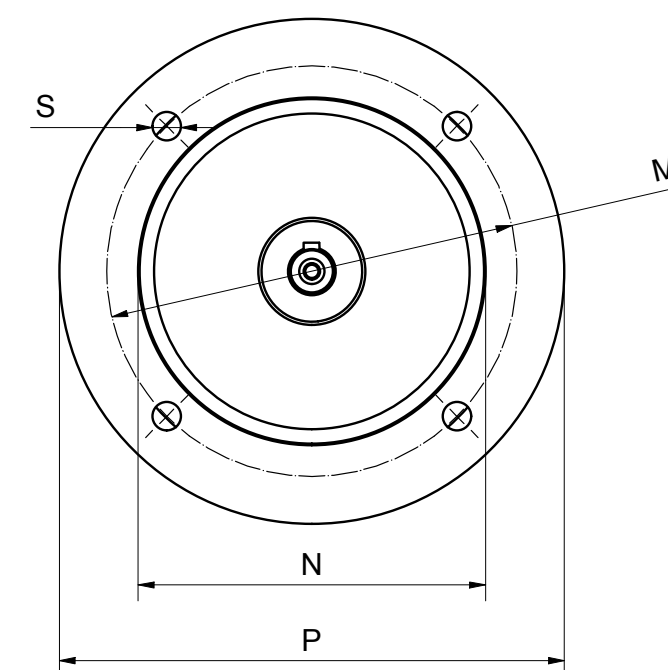
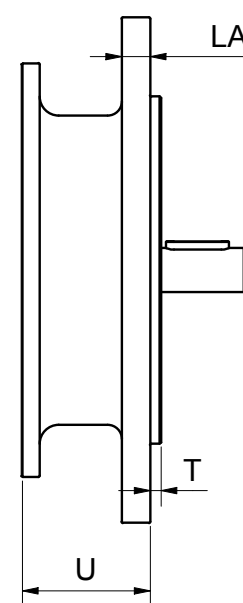
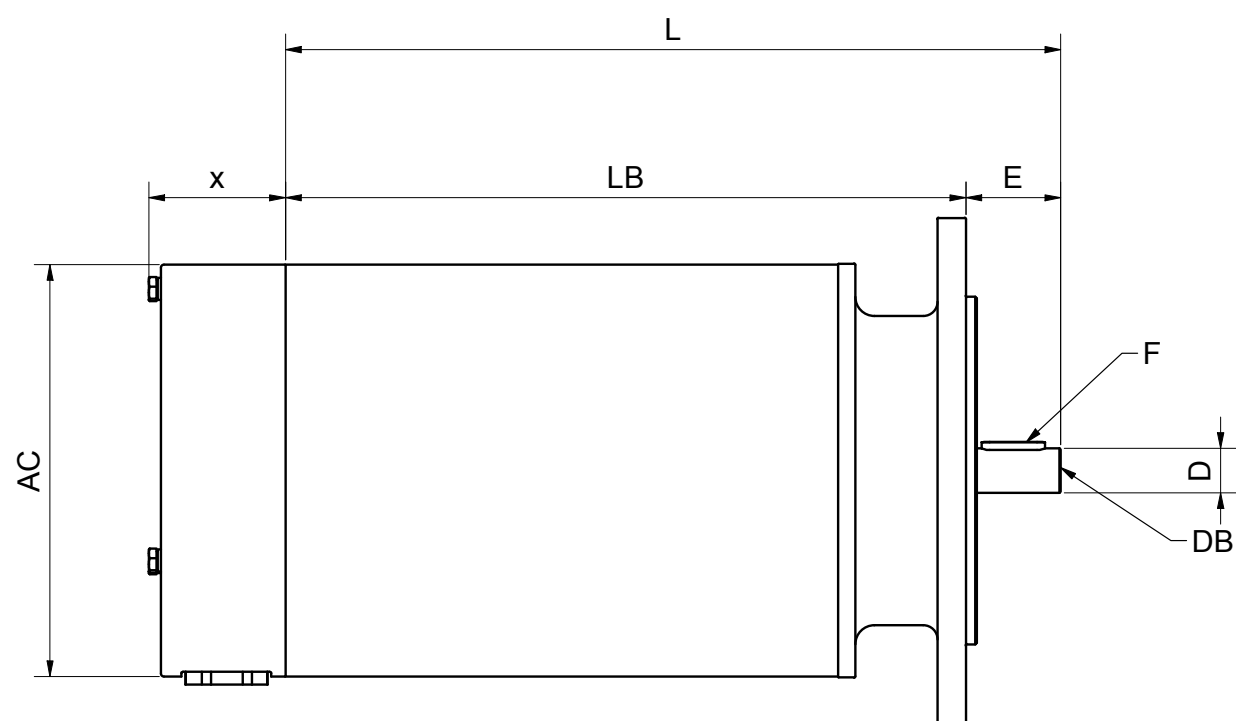
All Future-Line electric motors are also available with optional UL/CSA certification.



MRS17 AND MRS21

MOTORDATA

Type	Power	Operating Factor	Max amb. Temp.	Pole Count	Frequency	Voltage	In	Is/In	RPM	Cos. ϕ	Efficiency	Efficiency Class	Tn	Ts/Tn	Tm/Tn
MRS17a-4	0.12kW / 0.16HP	CONT(S1-100%)	40°C	4-Poles	50Hz	230/400V \pm 5%	0.5/0.3A	4.9	1430 RPM	0.76	65.0%	IE3	0.8Nm	1.6	2.3
MRS17b-4	0.18kW / 0.25HP	CONT(S1-100%)	40°C	4-Poles	50Hz	230/400V \pm 5%	0.9/0.5A	4.8	1430 RPM	0.75	70.8%	IE3	1.2Nm	2.2	2.8
MRS17c-4	0.25kW / 0.33HP	CONT(S1-100%)	40°C	4-Poles	50Hz	230/400V \pm 5%	1.0/0.6A	5.3	1440 RPM	0.77	75.3%	IE3	1.7Nm	2.3	2.8
MRS17d-4	0.37kW / 0.5HP	CONT(S1-100%)	40°C	4-Poles	50Hz	230/400V \pm 5%	1.6/0.9A	5.7	1440 RPM	0.74	79.6%	IE3	2.5Nm	2.6	2.9
MRS21a-4	0.55kW / 0.75HP	CONT(S1-100%)	40°C	4-Poles	50Hz	230/400V \pm 5%	2.1/1.2A	7.9	1460 RPM	0.78	82.5%	IE3	3.6Nm	2.9	4.4
MRS21b-4	0.75kW / 1HP	CONT(S1-100%)	40°C	4-Poles	50Hz	230/400V \pm 5%	2.8/1.6A	8.6	1460 RPM	0.78	87.4%	IE4	5Nm	3.4	4.4
MRS21c-4	1.1kW / 1.5HP	CONT(S1-100%)	40°C	4-Poles	50Hz	230/400V \pm 5%	3.9/2.2A	8.9	1460 RPM	0.82	86.6%	IE3	7.2Nm	3.4	4.3





MRS17 AND MRS21

DIMENSIONS (in mm)

Type	Flange IEC size	L	LB	AC Ø	D Ø	E	F	X	Y	Z Ø	DB DIN32-D	Weight [kg]	P Ø	M Ø	N Ø	S Ø	T	LA
MRS17a-44	IEC63 B14a	212.5	189.5	131	11j6	23	4x14	52	108	20	M4	12	131	75	90h6	M5	2.5	N/A
MRS17a-45	IEC63 B5	212.5	189.5	131	11j6	23	4x14	52	108	20	M4	12	140	115	95h6	Ø9	3	9
MRS17a-46	IEC63 B14b	212.5	189.5	131	11j6	23	4x14	52	108	20	M4	11.5	120	100	80h6	M6	3	8
MRS17b-44	IEC63 B14a	227.5	204.5	131	11j6	23	4x14	52	108	20	M4	12	131	75	60h6	M5	2.5	N/A
MRS17b-45	IEC63 B5	227.2	204.5	131	11j6	23	4x14	52	108	20	M4	12.5	140	115	95h6	Ø9	3	9
MRS17b-46	IEC63 B14b	227.5	204.5	131	11j6	23	4x14	52	108	20	M4	12.5	120	100	80h6	M6	3	8
MRS17c-44	IEC71 B14a	250.5	220.5	131	14j6	30	5x20	52	108	20	M5	13	131	85	70h6	M6	2.5	N/A
MRS17c-45	IEC71 B5	250.5	220.5	131	14j6	30	5x20	52	108	20	M5	14	160	130	110h6	Ø9	3.5	9
MRS17c-46	IEC71 B14b	250.5	220.5	131	14j6	30	5x20	52	108	20	M5	14	140	115	95h6	M8	3	8
MRS17d-44	IEC71 B14a	270.5	240.5	131	14j6	30	5x20	52	108	20	M5	15.5	131	85	70h6	M6	2.5	N/A
MRS17d-45	IEC71 B5	270.5	240.5	131	14j6	30	5x20	52	108	20	M5	16	160	130	110h6	Ø9	3.5	9
MRS17d-46	IEC71 B14b	270.5	240.5	131	14j6	30	5x20	52	108	20	M5	16	140	115	95h6	M8	3	8
MRS21a-44	IEC 80B14a	265	225	166	19j6	40	6x30	40	108	20	M8	20	166	100	80h6	M6	3	N/A
MRS21a-45	IEC 80B5	265	225	166	19j6	40	6x30	40	108	20	M8	21.5	200	165	130h6	Ø12	3.5	10
MRS21a-46	IEC 80B14b	265	225	166	16j6	40	6x30	40	108	20	M8	21	166	130	110h6	M8	3.5	N/A
MRS21b-44	IEC 80B14a	290	250	166	19j6	40	6x30	40	108	20	M10	23.5	166	100	80h6	M6	3	N/A
MRS21b-45	IEC 80B5	290	250	166	19j6	40	6x30	40	108	20	M10	24	200	165	130h6	Ø12	3.5	10
MRS21b-46	IEC 80B14b	290	250	166	19j6	40	6x30	40	108	20	M10	24.5	166	130	110h6	M8	3.5	N/A
MRS21c-44	IEC90 B14a	330	280	166	24j6	50	8x40	52	108	20	M10	28	166	115	95h6	M8	3	N/A
MRS21c-45	IEC90 B5	330	280	166	24j6	50	8x40	52	108	20	M10	29	200	165	130h6	Ø12	3.5	10
MRS21c-46	IEC90 B14b	330	280	166	24j6	50	8x40	52	108	20	M10	28.5	166	130	110h6	M8	3.5	N/A

**OVER 100 YEARS OF EXPERIENCE:
WE ARE DELIGHTED TO WORK IN CLOSE CO-OPERATION
WITH YOU FOR TAILOR-MADE SOLUTIONS**

ABI has the expertise and experience to provide the very best custom stainless steel drive solutions.

How can we help you?

We look forward to working with you to find the perfect drive solution for your application.