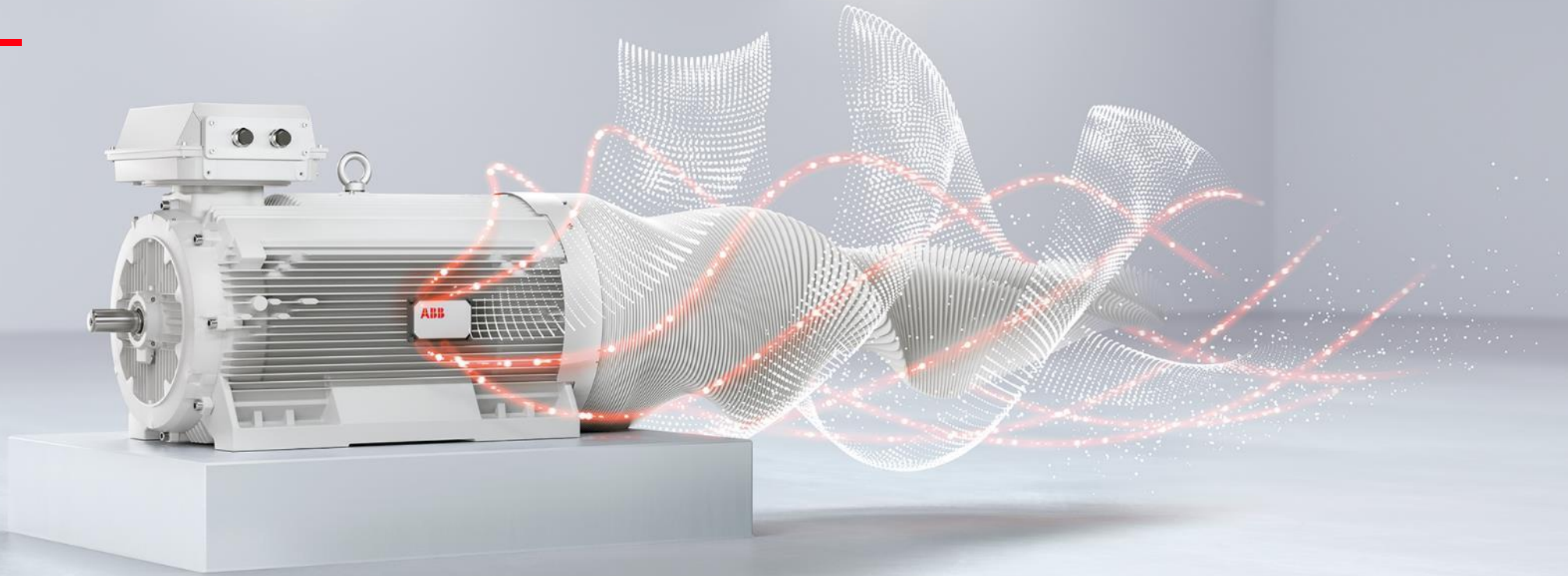




SEPTEMBER 2021

MOTION

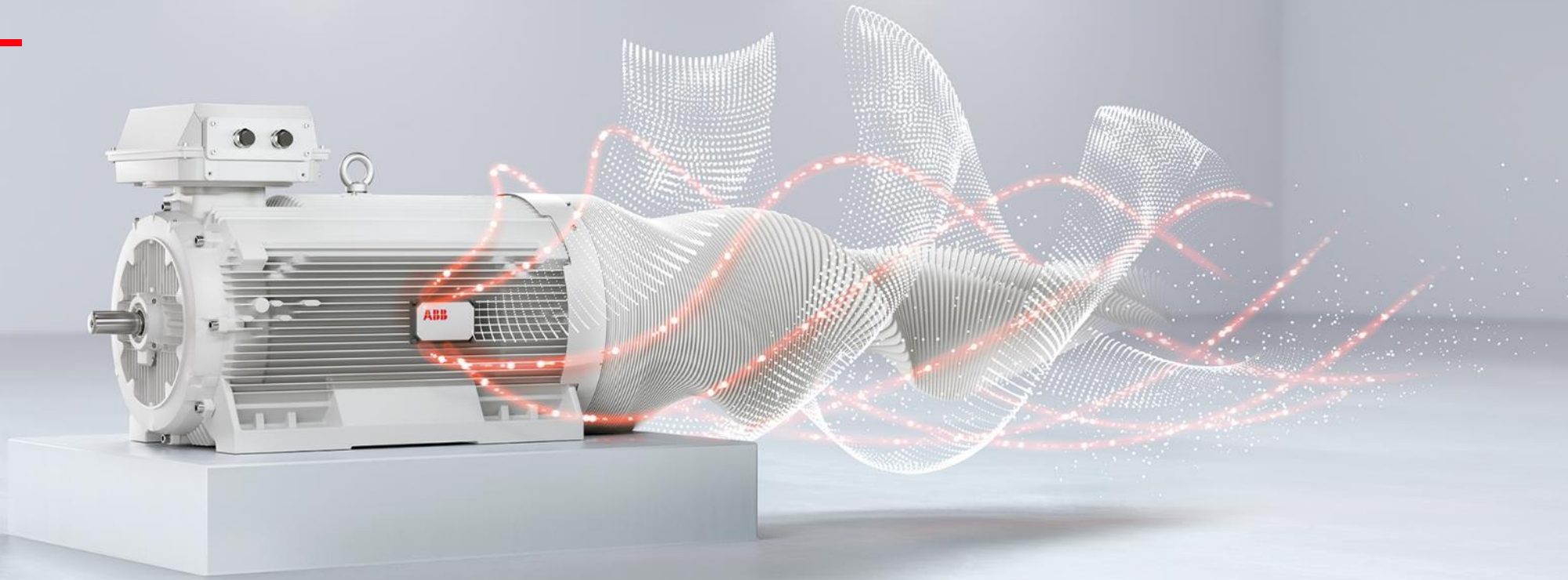
MV & LV Motors product

Presented by:

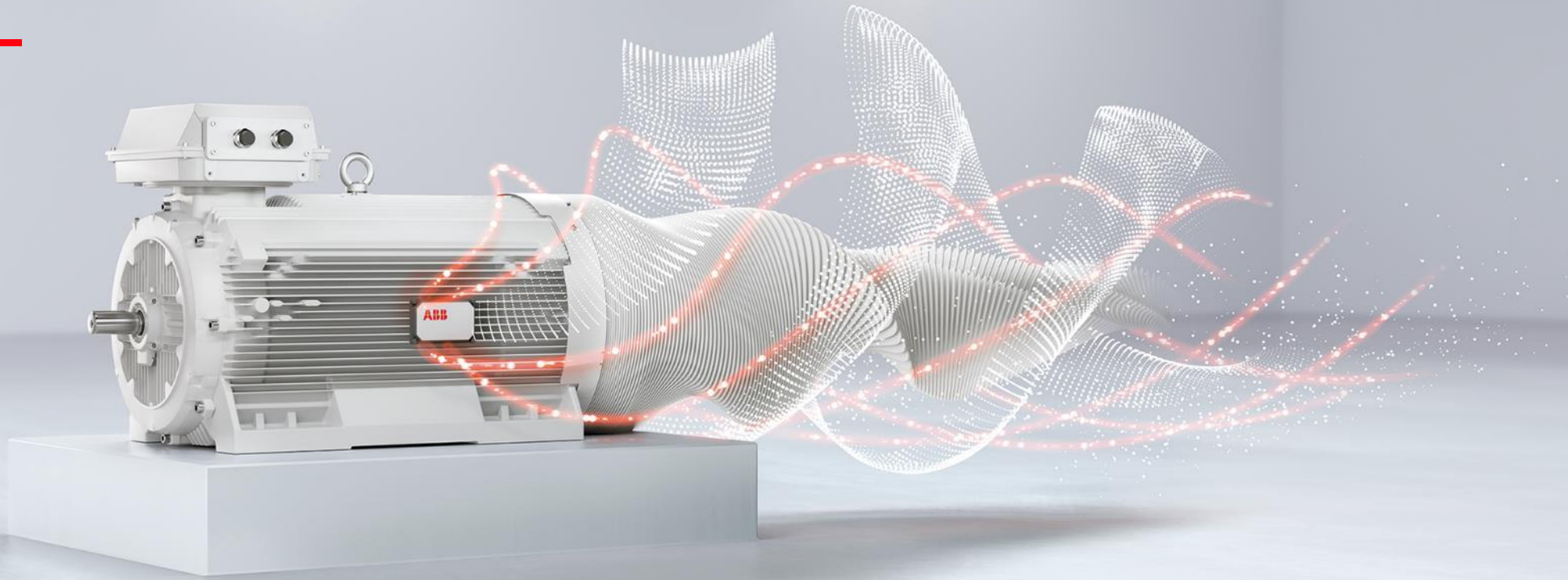
MOMG – EGABB team

Agenda

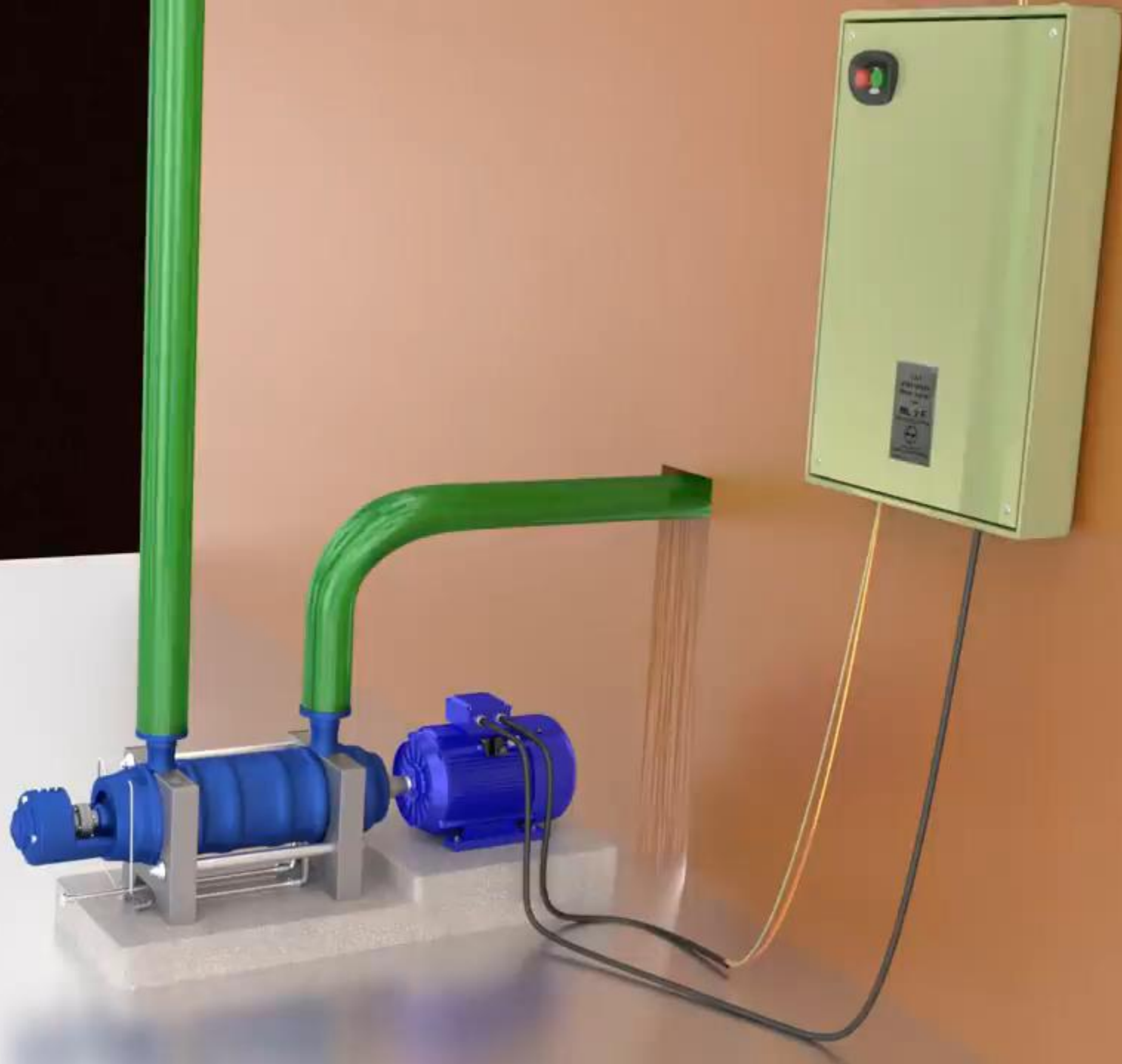
- Introduction.
- ABB's Operations and Organization setup.
- Motors' Technical operations.
- ABB market share and position.
- How to select correct motor for a certain application.
- Project life cycle.
- ABB optimizer online free tool.
- Motors' Variant codes.
- Project management and operations process in orders and projects handling.



ABB's Operations and Organization Setup

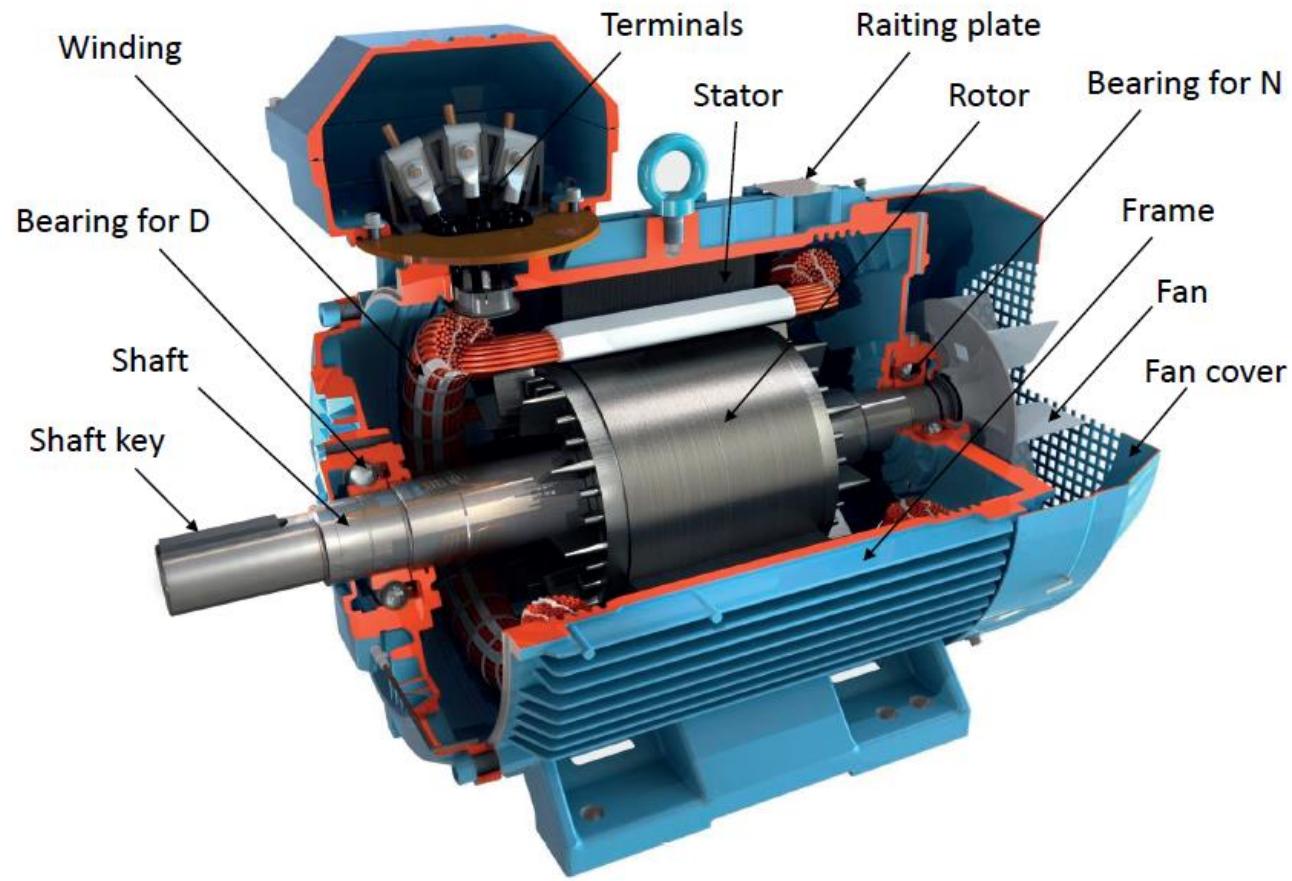


Motors' Technical operations



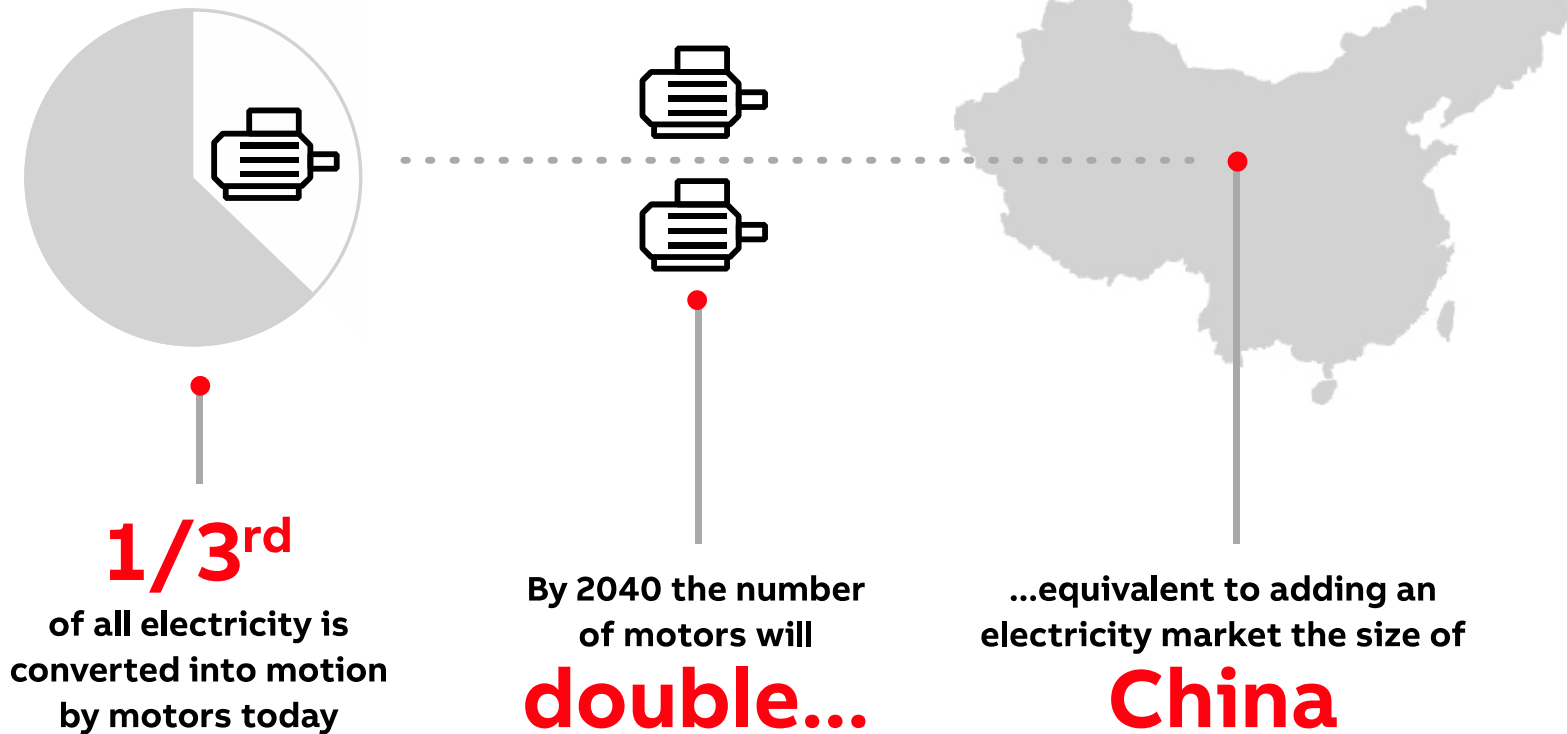
Motor construction

The following is a cross-section of a three-phase induction motor and its main parts



Global market and trends

The world is going electric



Improved energy efficiency is a must and we - the 14,000 people behind the Motors and Generators business - play a key role realizing it.

IEC Low voltage motors

Manufacturing locations

Sweden, Vasteras

Manufacturing of active components, traction

Finland, Vaasa

M3BP, M3AA, M3JP, M3KP,
M3HP, M3GP, M3JM
All frequency controlled, special

Poland, Lodz

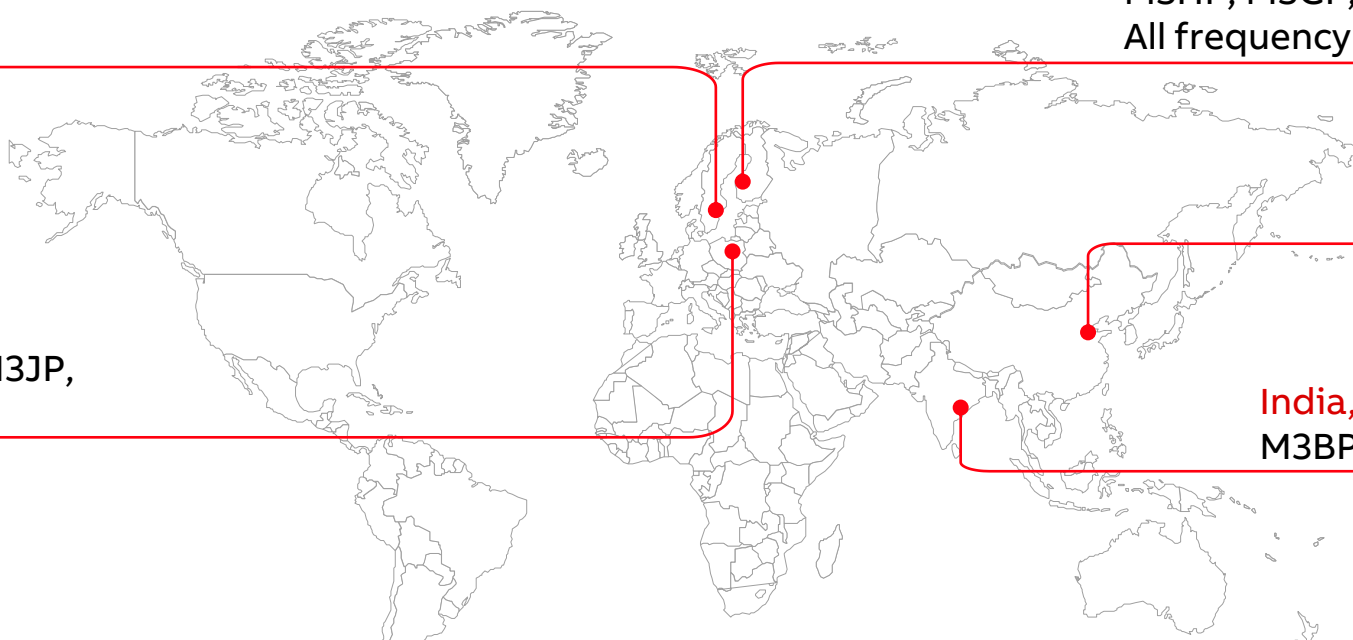
M3BP, M3AA, M2AA, M2BAX, M3JP,
M3KP, M3GP

China, Shanghai

M3BP, M2BAX, M3AA,
M3JP,..., traction

India, Faridabad, Bangalore

M3BP, M2BAX



Global footprint, close to IEC LV market

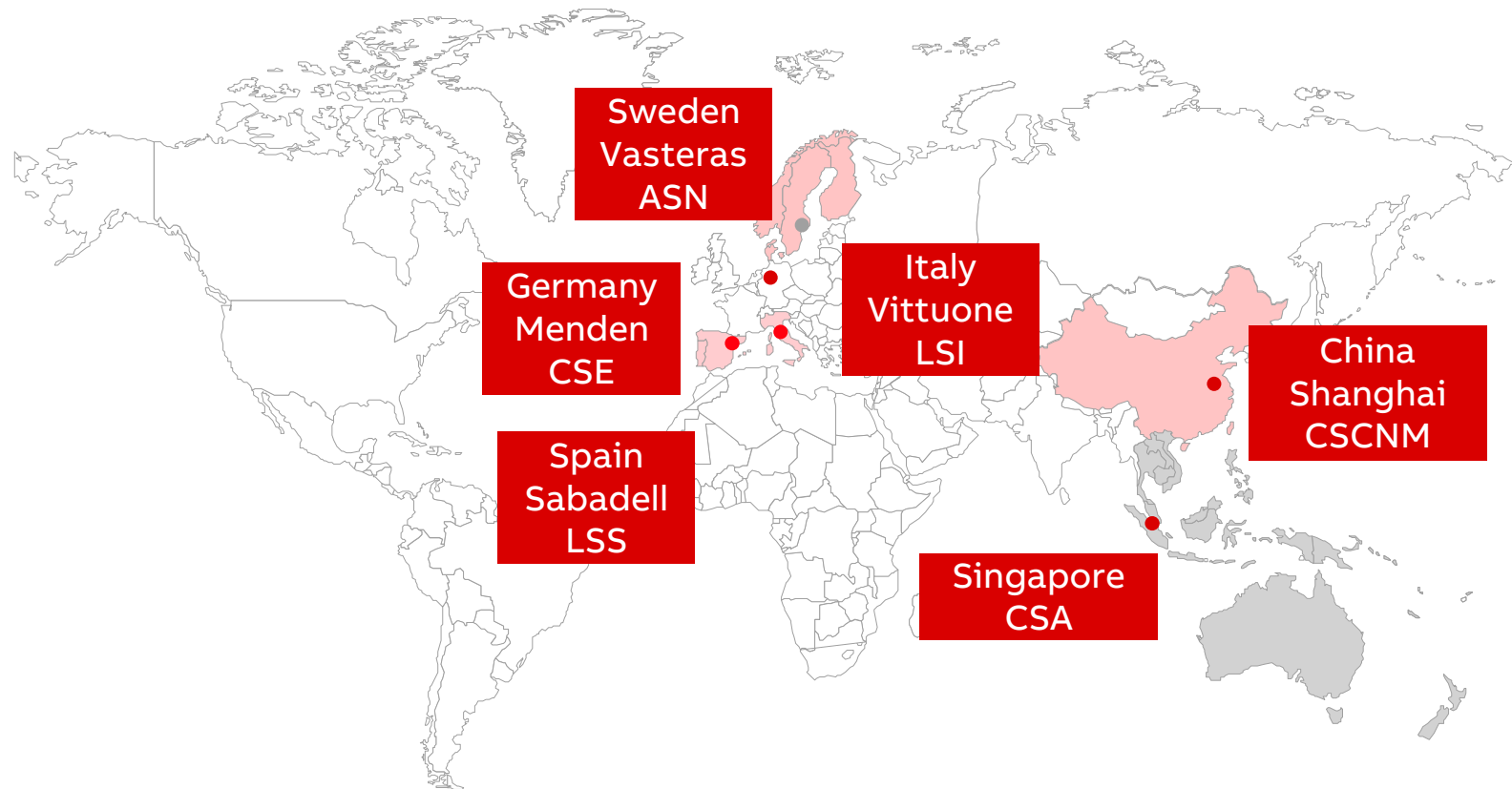
IEC Low voltage motors

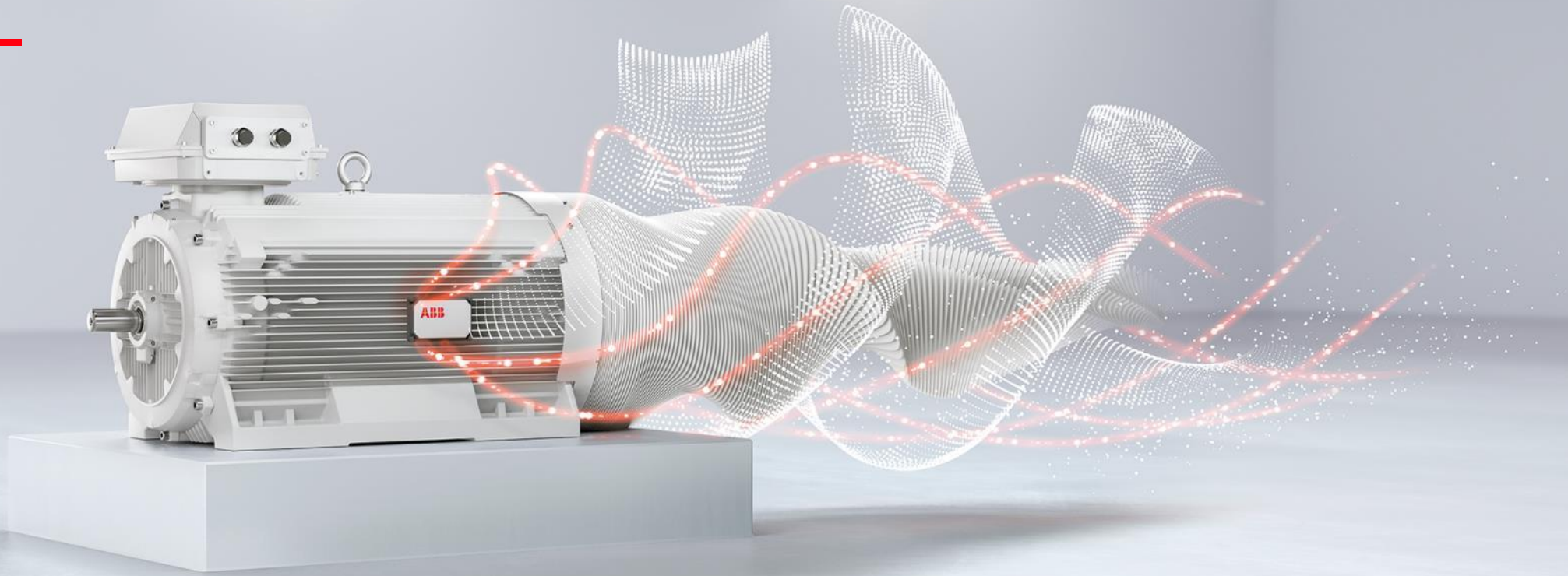
Stocks and logistic centers

CS - Central stock serves multiple countries inside region and consolidates export shipments out from the region

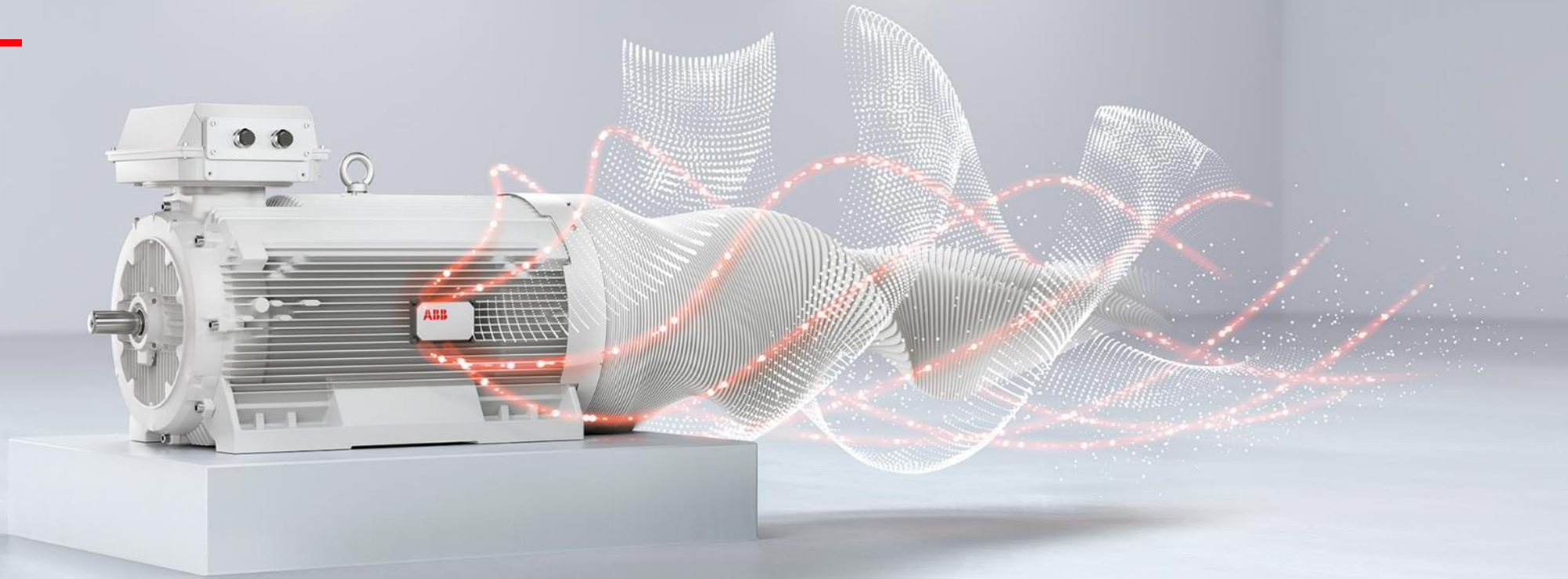
AS - Area stock serves selected countries inside the region

LS - Local stock serves a single country



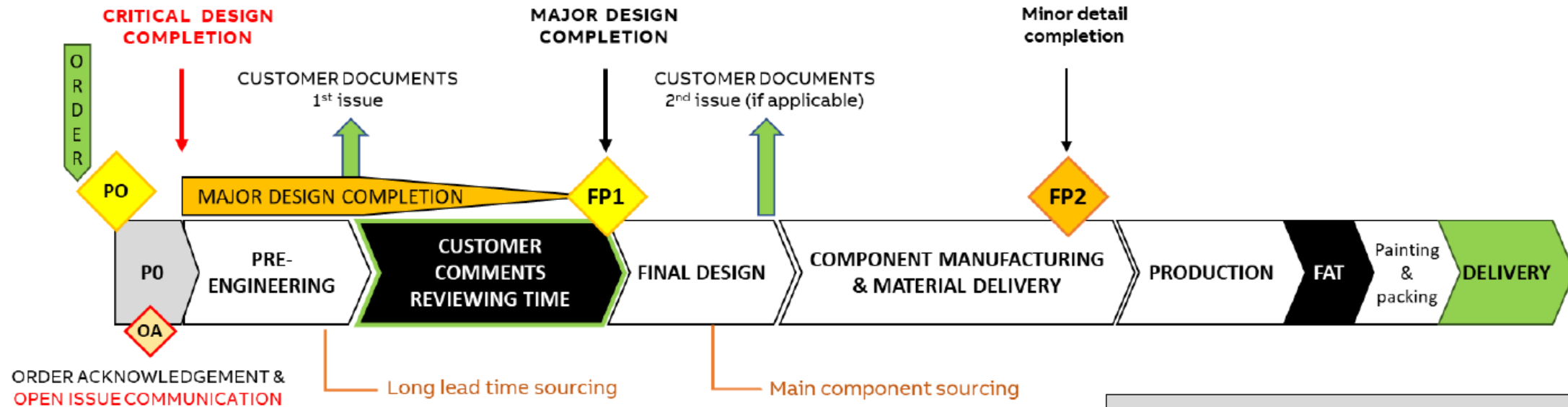


How to select correct motor for a certain application (live Example)



Project's life cycle

Project life cycle



Recommended lead time is Cuusamo minimum lead time plus customer comments reviewing time, including handling time in LSU's. Agree with customer chain how much time is needed for reviewing time and set up an open issue target date (Freezing point 1)

NOTE: If major items remain open on Freezing point 1 date and no other agreement have been made, production unit engineering can't complete the design and possible effects on delivery time must be evaluated.

Cuusamo minimum LT [Weeks]		Agreed comments reviewing time [Weeks]		Recommended minimum LT [Weeks]
12	+	2	=	14
12	+	4	=	16
16	+	2	=	18
16	+	4	=	20
22	+	4	=	26
22	+	8	=	30

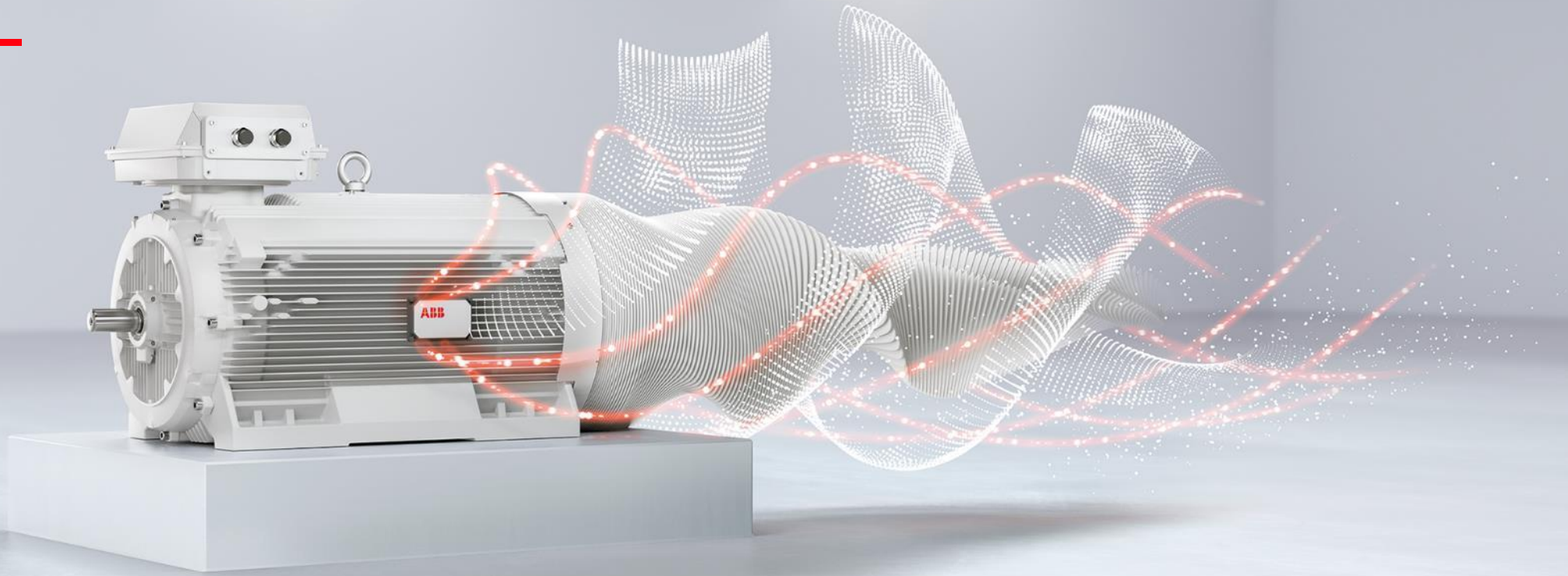
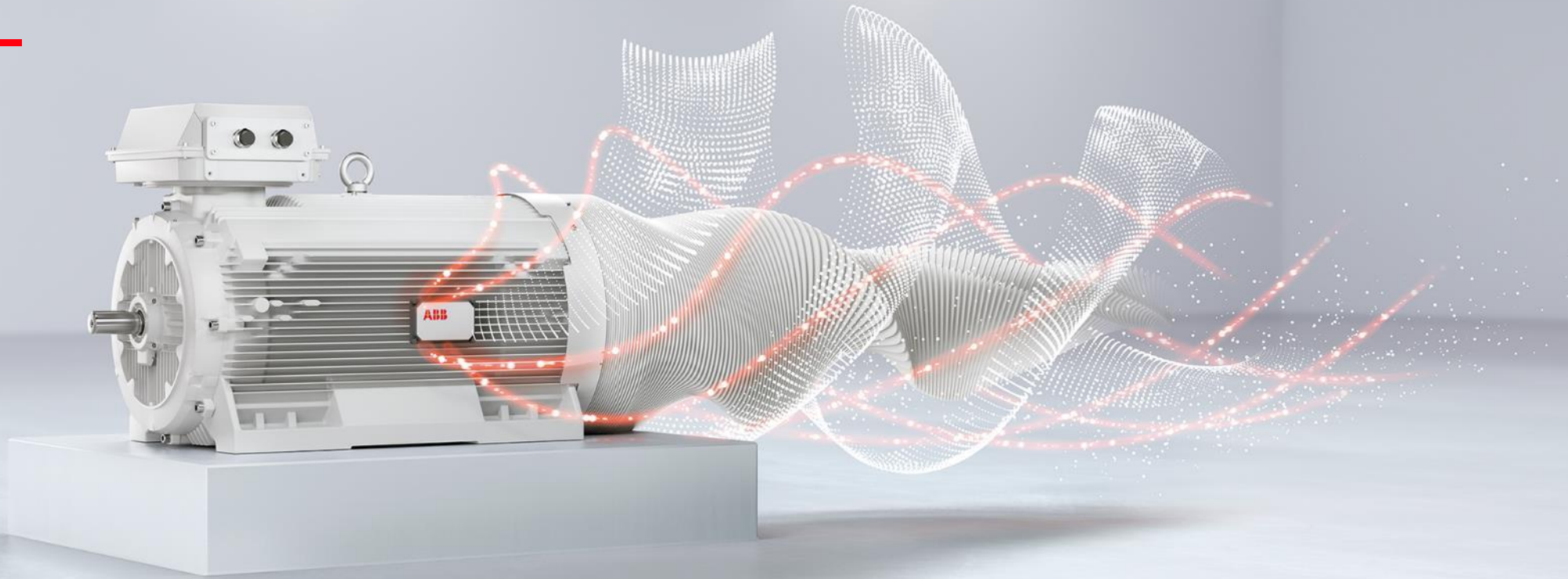


ABB optimizer online free tool.



Motors' Variant Codes

Variant Codes

Variant codes specify additional options and features to the standard motor. The desired features are listed as three-digit variant codes in the motor order. Note also that there are variants that cannot be used together.

Most of the variant codes apply to IE2, IE3, and IE4 motors. However, confirm the availability of variants for IE3 and IE4 motors with your ABB sales office before making an order.

		Frame size															
Code/Variants		71	80	90	100	112	132	160	180	200	225	250	280	315	355	400	450
Administration																	
529	Customer witnessed visual inspection of complete order line.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
530	Two-year extension on standard warranty	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
531	Sea freight packing	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
533	Wooden sea freight packing	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
590	Mounting of customer supplied part other than coupling.	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	-
683	Prepared for ABB Ability Smart Sensor	-	-	-	-	-	-	•	•	•	•	•	•	•	•	•	•
684	ABB Ability Smart sensor mounted	-	-	-	-	-	-	•	•	•	•	•	•	•	•	•	•

Product portfolio PG IEC LV Motors

The language of IEC LV Motors

Type designation

A B C D E F
M3BP 280 SMA 4 B3

A = Motor type

B = Frame size

C = Mounting hole distance

D = Length of stator package

E = Pole number

F = Mounting

Product code

1 2 3 4 5 6 7 8 9
3GBP 282 210 – ADK 701

1 = Identity number dedicated to LV motors (3G)

2 = Motor enclosure (BP, LP, AA, BJ etc.)

3 = Frame size (08 = 80, 28 = 280, 31 = 315 etc.)

4 = Pole pair number (1 = 2 pole, 2 = 4 pole etc.)

5 = Running number

6 = Mounting (A = foot mounted, B = flange mounted etc.)

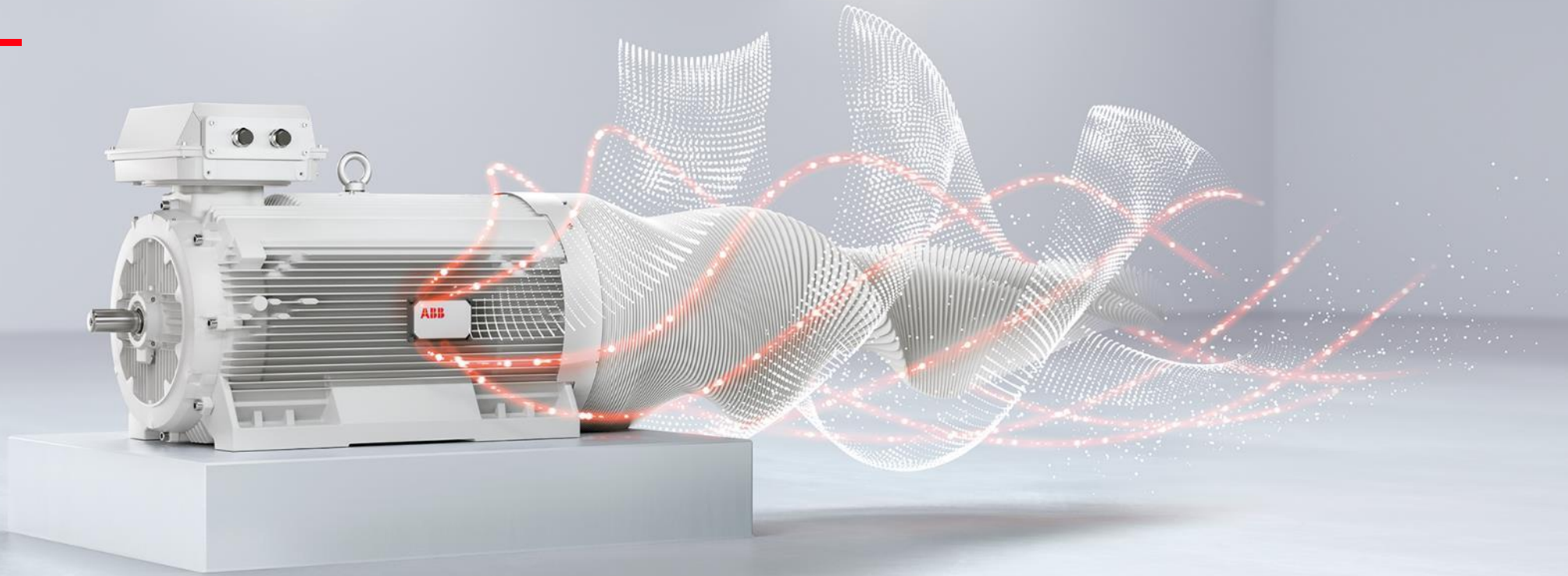
7 = Voltage/frequency rating (e.g. D = 400 VD, 415 VD, 690 VY 50 Hz)

8 = Design code (A, B, C, D, E, F, G, H, J, K, L)

9 = Variant code number (when applicable)

OMS Product code

3BP3



PM process

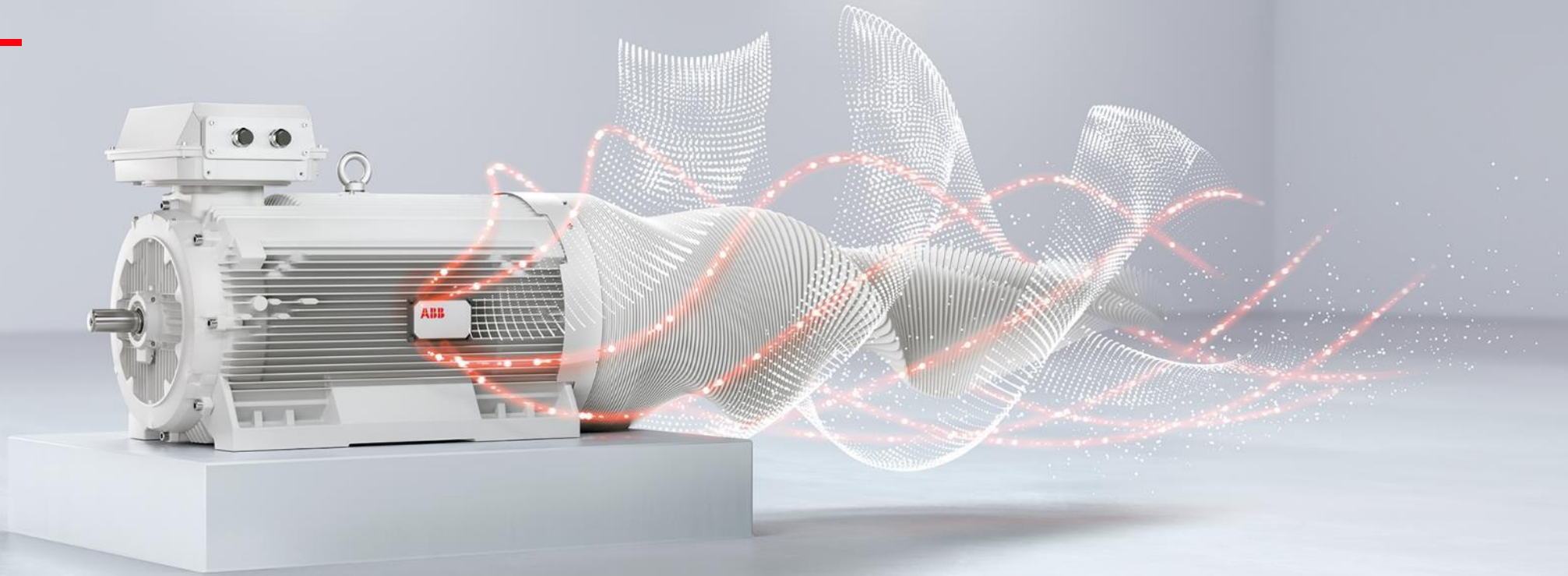


ABB smart Sensors

[\(6\) ABB Ability Smart Sensor. Condition monitoring solution for low voltage motors – YouTube](#)

Thank you for your participation

Questions & Answer

We will be happy to answer all your questions!

ABB