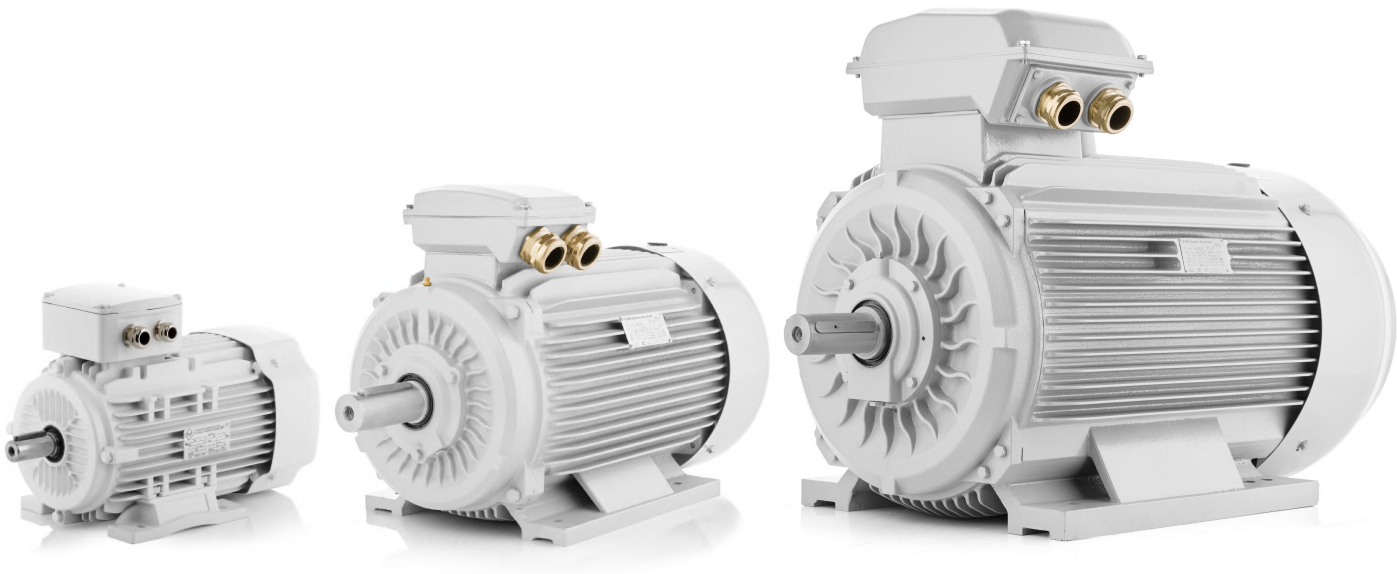


Electric motors

5AL,5LC Series

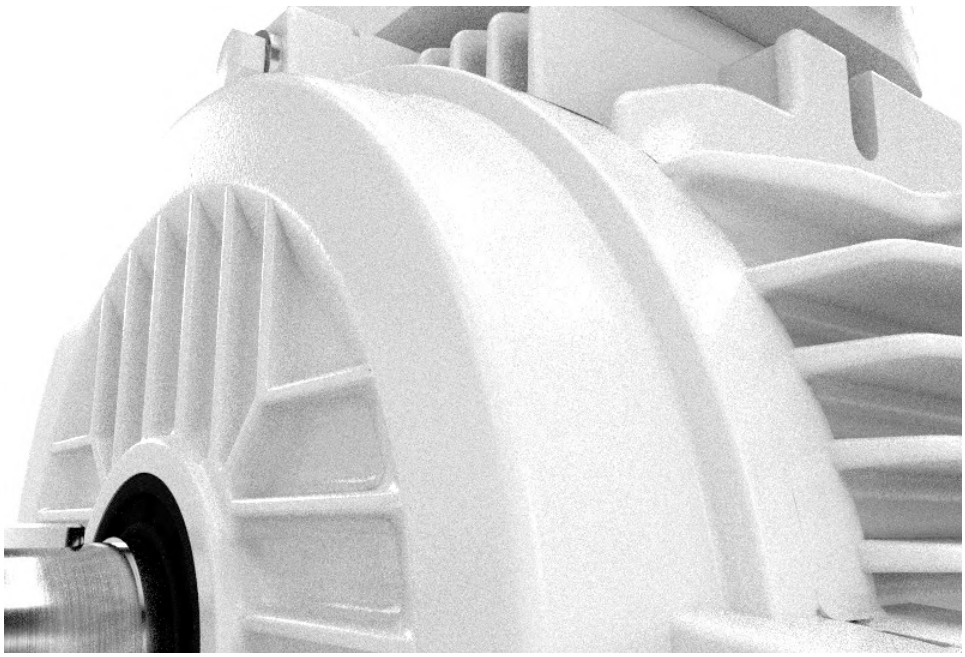
Ultra high efficiency IE5 class electric motors

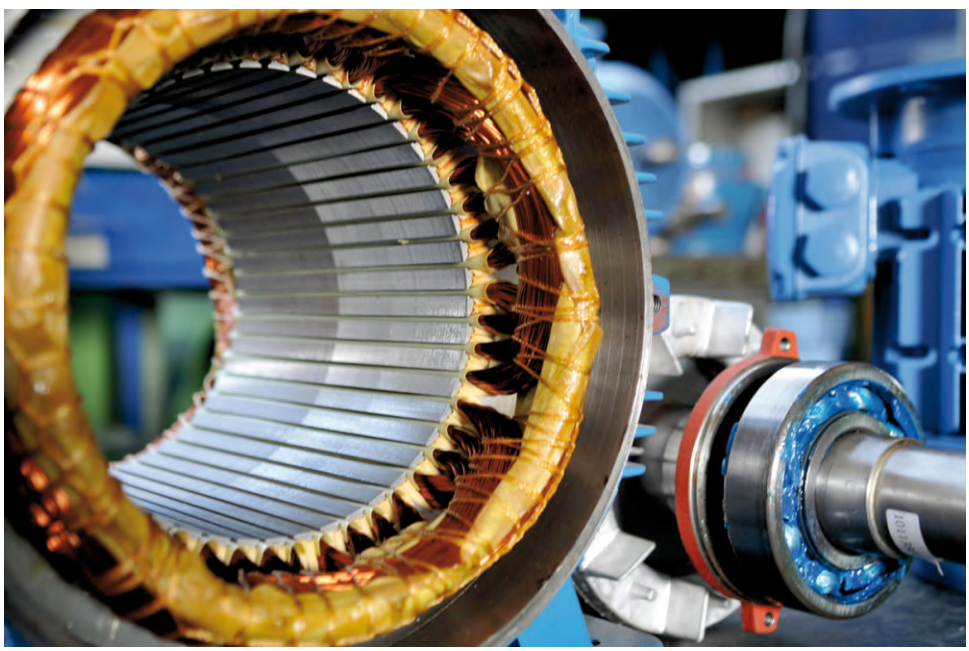
Powerful, efficient and flexible...

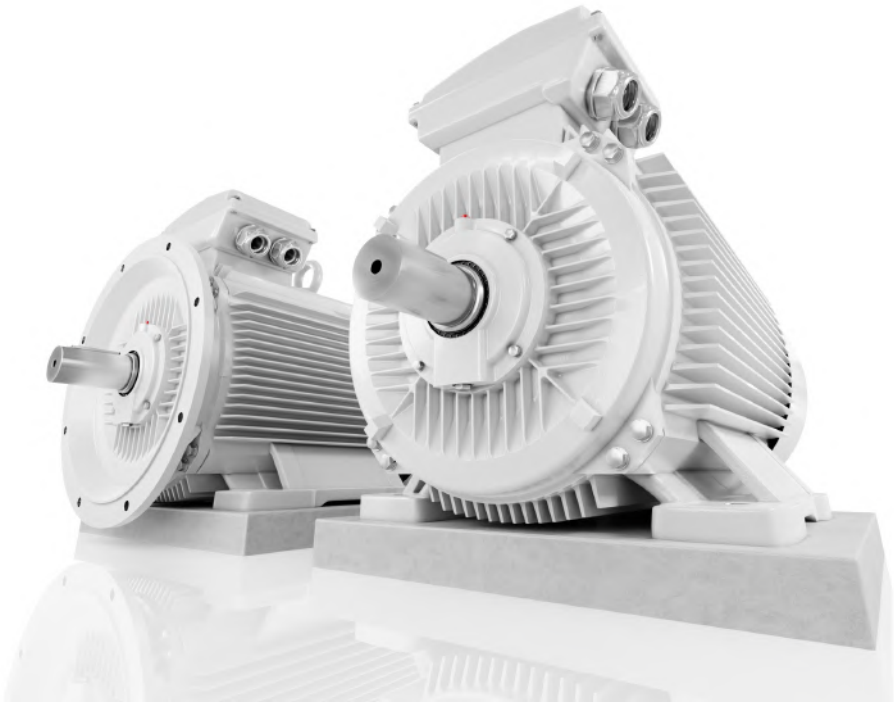
Technical catalogue

VYBO Electric

Low-voltage induction electric motors







AL and LC motors for all types of industry

Quality management and certificates

VYBO Electric is a modern High-tech energy saving company that pays high attention to quality, environment, safety and precision and efficiency of work and energy in production. Therefore, it holds a lot of certificates and quality control systems. **Our priority is quality control.**

Basic certificates include:

ISO9001

The primary task of the ISO 9001 standard is to focus on system management and quality management in the organization. The satisfaction of the customer and the fulfillment of his requirements, which are specified in contracts, orders, or technical drawings, are in the first place. The quality management system is linked to all processes in the company. The standard focuses on the management of human and financial resources, on the stability of infrastructure, including buildings, transport, hardware, software and other communication or information technologies. An important part is also the planning of production and services, the management of the purchasing process, but also the management of non-conforming products.

ISO14001

The main priority of the ISO 14001 standard is to identify and understand the environmental aspects and activities that are related to the entire infrastructure of the company and, based on this, to regulate the environmental impact on the environment.

In its scope, the ISO 14001 standard creates the conditions for determining environmental goals and plans, the fulfillment of which is examined at regular intervals by top management and also by an independent body during internal audits.

This standard is intended for all organizations and companies that consider environmental protection as their primary goal.

The benefit of the standard for society is mainly:

- control over the environmental impact on the environment
- control over produced emissions and waste
- saving material and energy
- prevention of accidents
- compliance of the company's activities with legal requirements
- zero fines for environmental behavior
- creation of a good reputation and prestige of the company

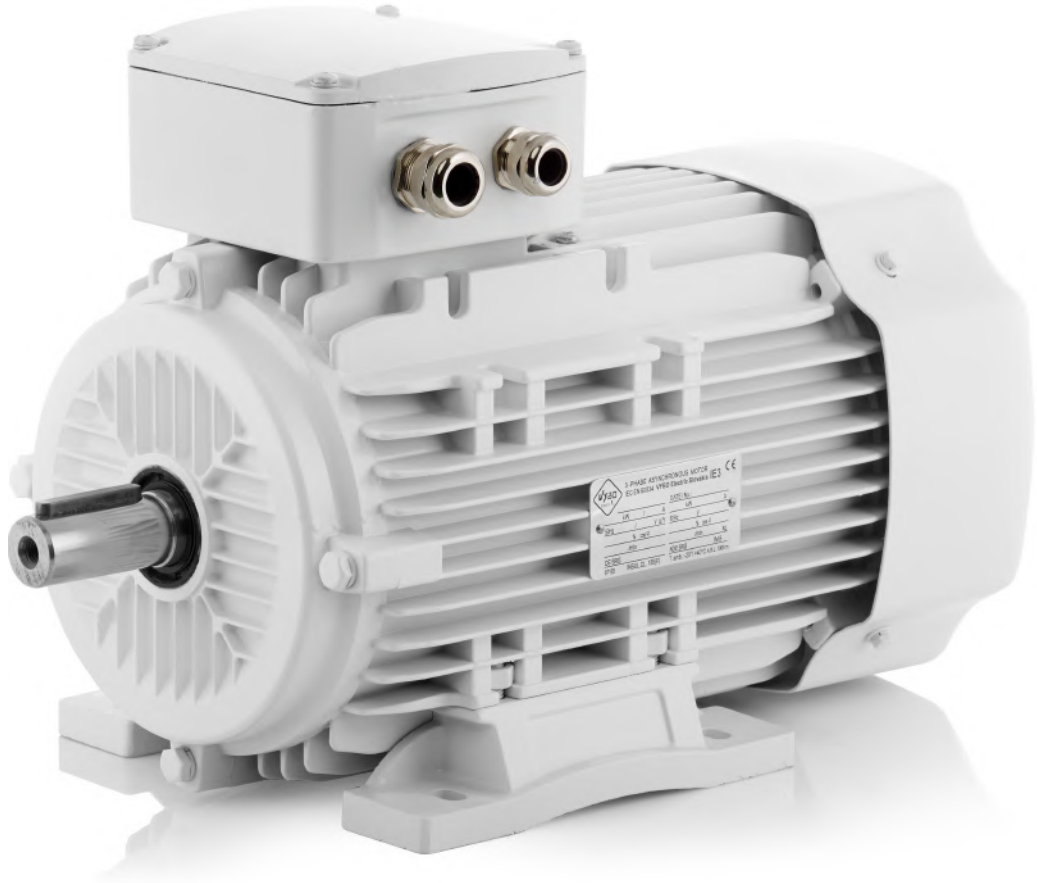
The ISO 45001

Specification (formerly known as OHSAS 18001) is an internationally recognized standard that declares compliance with the principles of a safe enterprise, managing risks at work and protecting the health of workers during work. It does not only concern danger and accidents, but also emphasizes other aspects such as the good condition and mental well-being of the employee.

The certificate is held in Slovakia as STN ISO 45001:2019 and is under the title Management systems of safety and health protection at work. Requirements with guidance for use. It replaces the STN OHSAS 18001 standard.

ISO50001

Energy management systems Energy efficiency help organizations save money, save energy resources and also help to prevent climate change. ISO 50001 encourages organizations in all sectors to use energy more efficiently through the development of an energy management system. The international standard ISO 50001: 2011 specifies the requirements for building, maintaining and improving the energy system. It aims to enable organizations to implement a systematic approach that will help achieve lasting improvements in energy efficiency, energy use and consumption.



AL Series

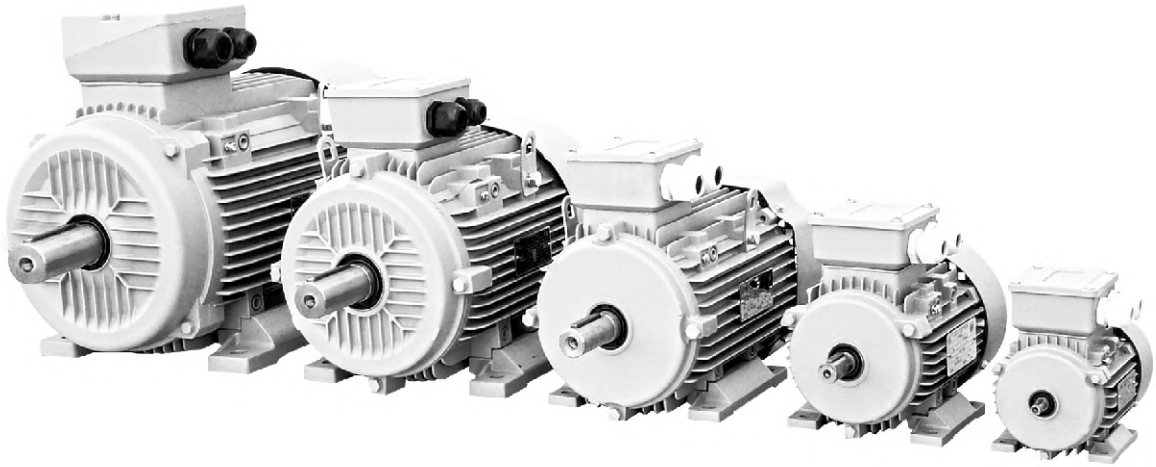
Electric motors for standard and heavy duty in an aluminum frame

VYBO Electric

SOLUTIONS FOR INDUSTRY

AL SERIES

Motors in AL version - low-voltage electric motors for general and heavy industry

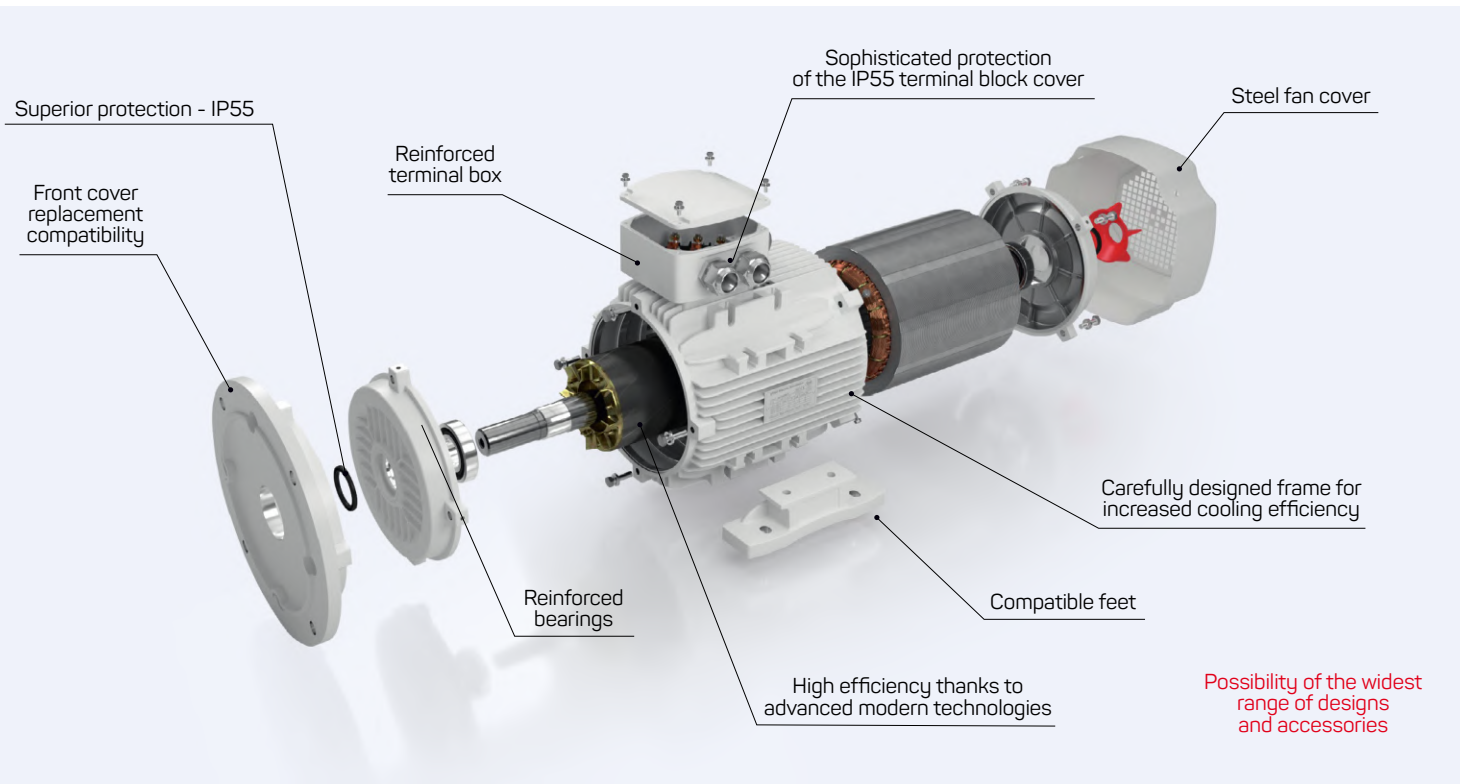


Kinetics AL Class

Types: 1AL, 2AL, 3AL, 4AL, 5AL
Power from 0,12 to 18,5 kW
Efficiency classes IE1, IE2, IE3, IE4
Reinforced terminal box

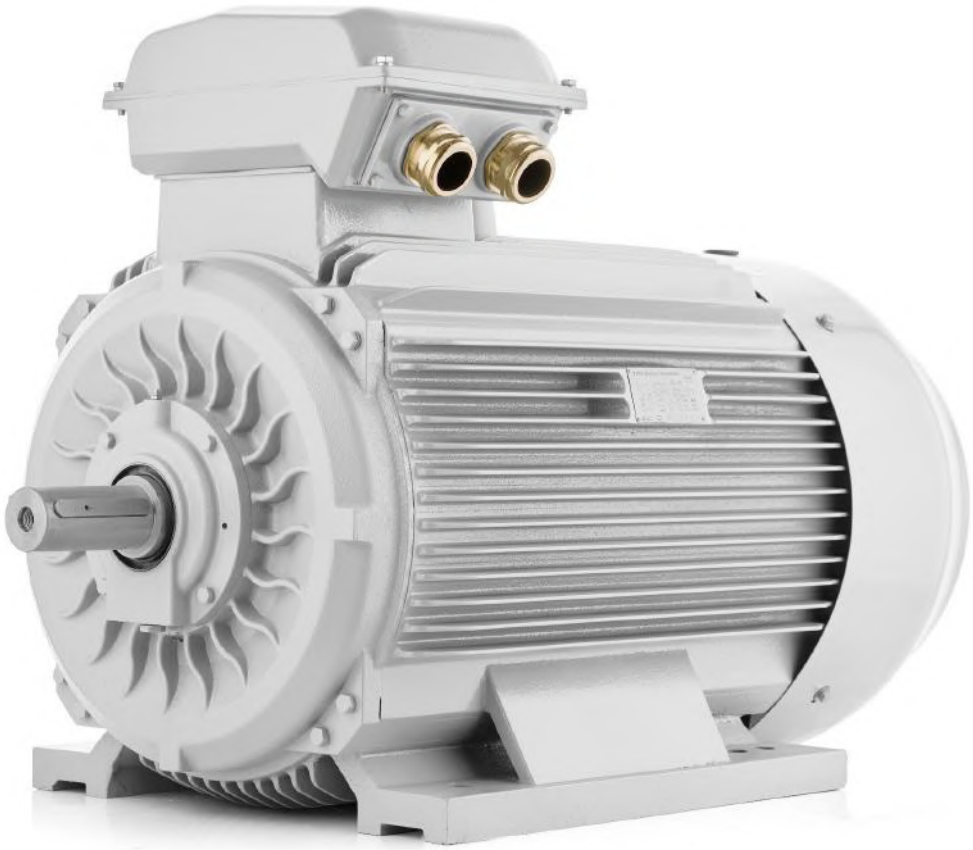
Axial heights: 56 and 160 mm
Steel fan cover
Rated frequency 50Hz, 60Hz, 87Hz
Protection IP55, IP56, IP65

Voltage system 230/400/690 V
Cooling IC411
Insulation class F
Compact feet



AL SERIES

Power:	0.06 - 22 kW
Speed:	3000 / 1500 / 1000 / (750) rpm
Frame size:	56 - 160
Voltage:	230/400 V, 400/690 V, 500 V
Freqeuency:	50 / 60 Hz
Protection class:	IP55
Efficiency class:	IE1 (Standard efficiency), IE2 (High efficiency), IE3 (Premium efficiency), IE4 (Super premium ef.) IE5 (Ultra high efficiency)
Insulation class:	F/B
Color:	RAL 7030 (stone grey)
Mounting:	IM B3, IM B35, IM B5, IM B14, IM B34
Cooling type:	IC 411 cooling (TENV), IC 416 cooling (TEFV)
Temperature:	-20 °C to +40 °C
Instalation height:	1000 m above sea level
Frame material:	aluminium
Direction of rotation:	right/left



LC Series

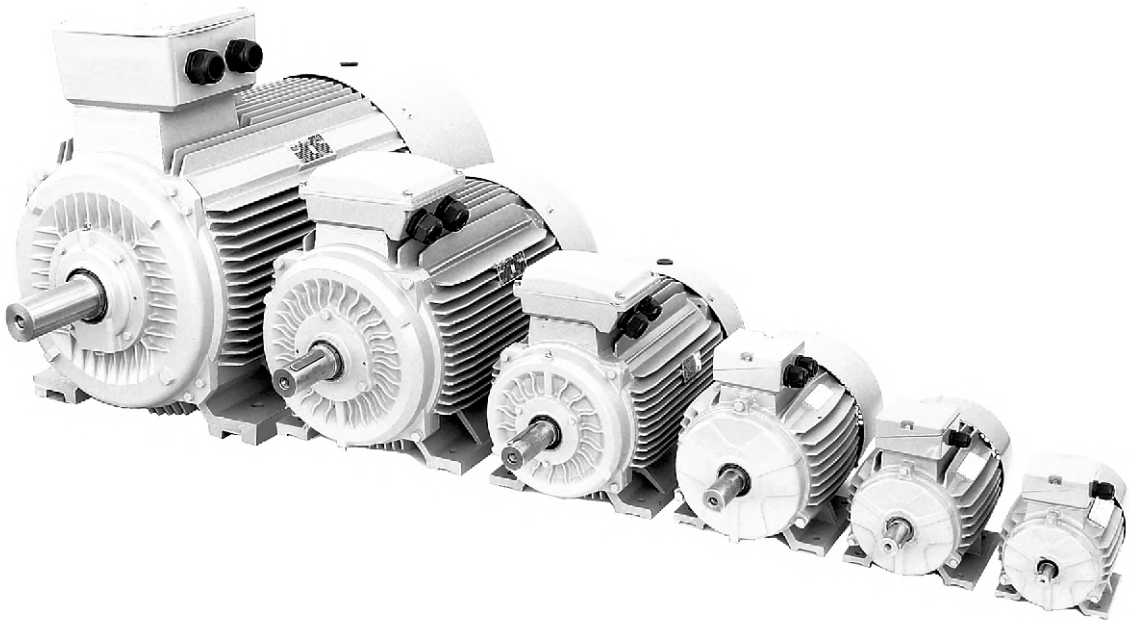
Electric motors for standard and heavy duty in a cast iron frame

VYBO Electric

SOLUTIONS FOR INDUSTRY

LC SERIES

Electric motors in LC version - performance in robustness

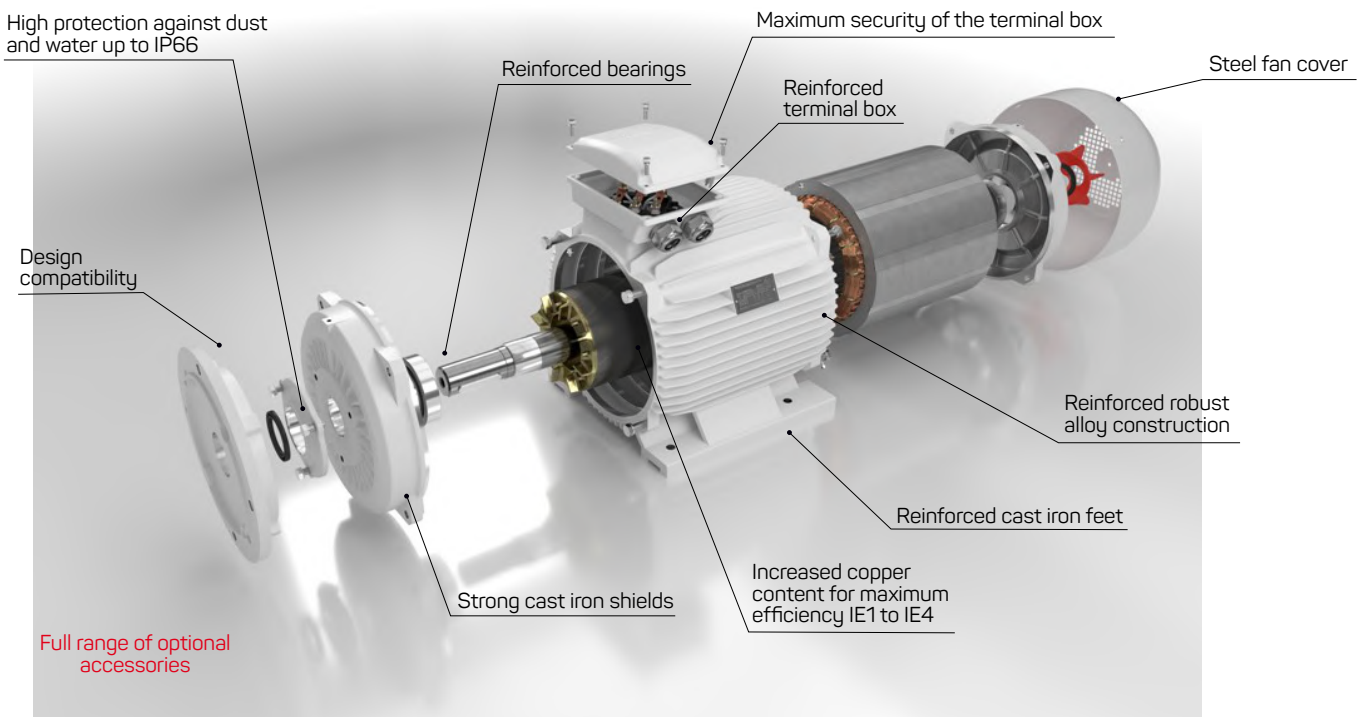


Kinetics LC Class

Cast iron frame
Top motors with high overload capacity
Heavy industrial processes
Full range of optional accessories
Power from 0,12 kW to 1000 kW
Efficiency classes IE1, IE2, IE3, IE4, IE5

Axial heights: 1LP, 2LP, 3LP - 71 to 160 mm
1LC, 2LC, 3LC - 180 to 355 mm
4LD - 355 - 450 mm
Nominal frequency 50 Hz, 60 Hz, 87 Hz
Protection IP 54, 55, 56, 65, 66
Voltage system 230/400V, 500V, 400/690V

Cooling IC411, (IC511 special)
Insulation classes F, H
Bearing relubrication system
Thermal protection - PTC thermistors
Steel fan cover
Reinforced terminal block cover



LC SERIES

Power:	15 - 400 kW
Speed:	3000 / 1500 / 1000 / (750) rpm
Frame size:	160 - 355
Voltage:	230/400 V, 400/690 V, 500 V
Frequency:	50 / 60 Hz
Protection class:	IP55
Efficiency class:	IE1 (Standard efficiency), IE2 (High efficiency), IE3 (Premium efficiency), IE4 (Super premium ef.). IE5 (Ultra high efficiency)
Insulation class:	F/B
Color:	RAL 7030 (stone gray)
Mounting:	IM B3, IM B35, IM B5, IM B14, IM B34
Cooling type:	IC 411 cooling (TENV), IC 416 cooling (TEFV)
Temperature:	-20 °C to +40 °C
Installation height:	1000 m above sea level
Frame material:	cast iron
Direction of rotation:	right/left

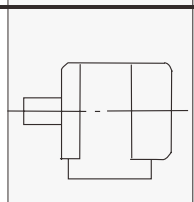
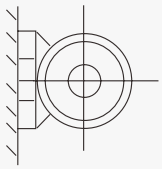
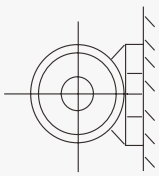
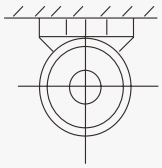
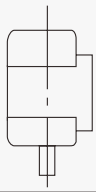
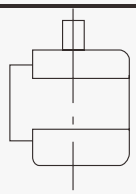
Bearing size

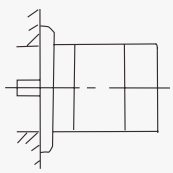
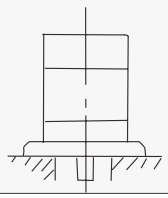
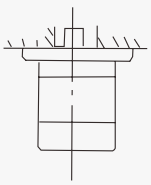
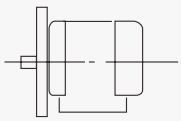
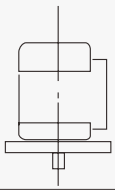
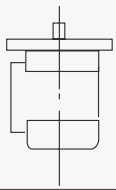
Frame size	Poles	Drive end	Non drive END
		International type	
80	2-4	62042 RZ	62042RZ
90	2-6	62052 RZ	62052 RZ
100	2-6	62062 RZ	62062 RZ
112	2-6	63062 RZ	63062 RZ
132	2-6	63082 RZ	63082 RZ
160	2-6	63092 ZC3	63092ZC3
180	2-6	6311C3	6311C3
200	2-6	6312C3	6312C3
225	2-6	6313C3	63 3C3
250	2-6	6314C3	6314C3
280	2	6314C3	6314C3
	4-6	6317C3	6317C3
315	2	6317C3	6317C3
	4-6	NU319C3	6319C3
355	2	6319C3	6319C3
	4-6	NU322C3	NU322C3

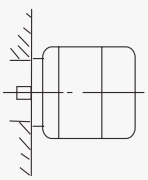
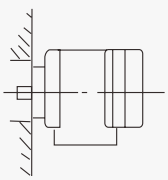
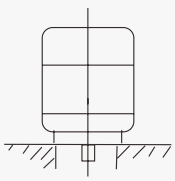
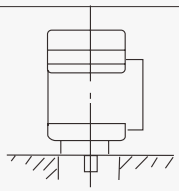
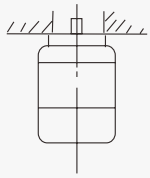
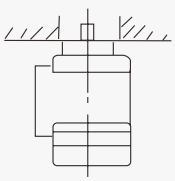
Main data for terminal box

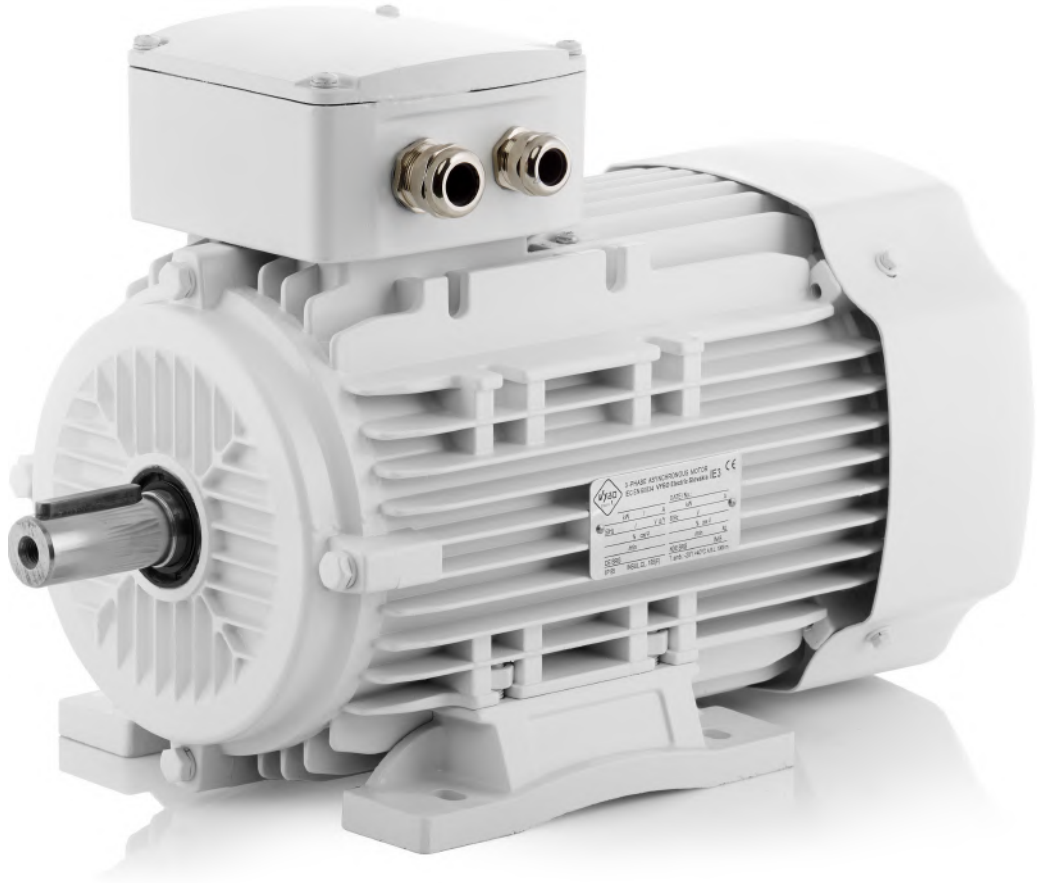
Classified number	Frame size	Max. F. Amps	Entry hole size
1	H80	2,6	2xM20x1,5
2	H90-100	6,8	2xM25x1,5
3	H112-132	15,4	2xM32x1,5
4	H160-180	42,5	2xM40x1,5
5	H200-225	84,2	2xM50x1,5
6	H250-280	166,6	2xM63x1,5
7	H315	358	2xM63x1,5
8	H355	546	2xM63x1,5

The mounting arrangements of the motors comply with IEC34-7 recommendation. There are four basic arrangements shown as the following tables and figures.

Fundamental arrangement	B3					
Mounting arrangement	B3	B6	B7	B8	V5	V6
Diagram						
Range of Manufacture (frame size)	80-355	80-160				

Fundamental arrangement	B5			B35		
Mounting arrangement	B5	V1	V3	B35	V15	V36
Diagram						
Range of Manufacture (frame size)	80-280	80-355	80-160	80-355	80-160	

Fundamental arrangement	B14					
Mounting arrangement	B14	B34	V18	V58	V19	V69
Diagram						
Range of Manufacture (frame size)	80-132					



5AL Series

Electric motors for standard and heavy duty in an aluminium frame

VYBO Electric

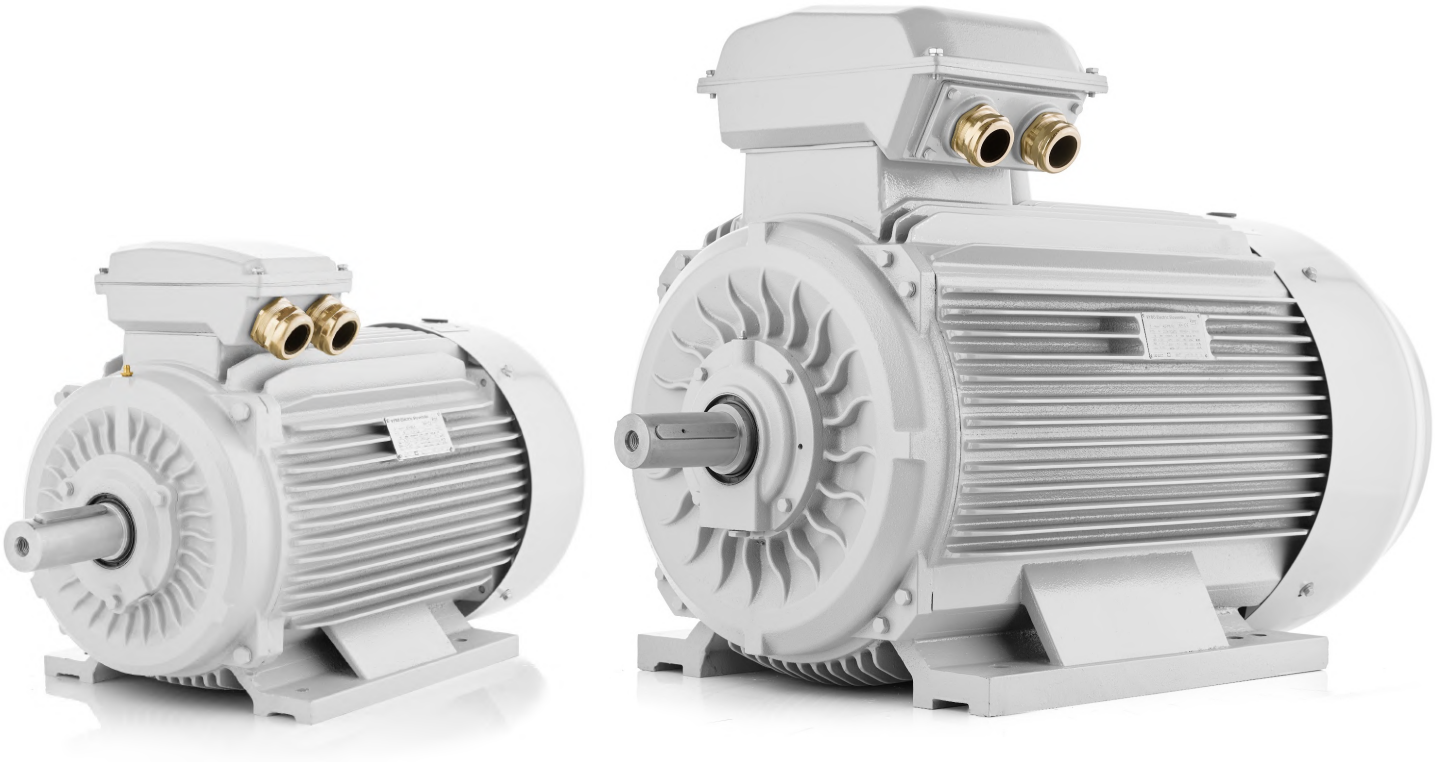
SOLUTIONS FOR INDUSTRY

Technical data 5AL

Frame reference and size		Output power	Full load current at rated voltage	Full load speed in revolutions per minute	Efficiency	Power factor	Rated power	Direct on line starting torque ratio	Direct on line starting current ratio	Direct on line pull out torque ratio	Noise
		Power	Amps (A)	Speed	η	Power factor	Power	LRT	LRA	BDT	Noise
NO.	Type	kW	400V	r/min	(%)	(cosΦ)	kW	RLT	RLA	RLT	LwdB (A)
2 poles electric motors											
1	5AL-80M1-2	0,75	1,6	2915	86,3	0,83	2,47	2,2	8,5	2,3	64
2	5AL-80M2-2	1,1	2,3	2910	87,8	0,83	3,62	2,2	8,5	2,3	64
3	5AL-90S-2	1,5	3	2905	88,9	0,85	4,92	2,2	9	2,3	69
4	5AL-90L-2	2,2	4,3	2910	90,2	0,86	7,22	2,2	9	2,3	69
5	5AL-100L-2	3	5,8	2930	91,1	0,87	9,78	2,2	9,5	2,3	76
6	5AL-112M-2	4	7,5	2930	91,8	0,88	13	2,2	9,5	2,3	79
7	5AL-132S1-2	5,5	10,3	2955	92,6	0,88	17,8	2	9,5	2,3	81
8	5AL-132S2-2	7,5	13,7	2955	93,3	0,89	24,2	2	9,5	2,3	81
9	5AL-160M1-2	11	20	2975	94	0,89	35,3	2	9,5	2,3	83
10	5AL-160M2-2	15	27,1	2970	94,5	0,89	48,2	2	9,5	2,3	83
11	5AL-160L-2	18,5	33,3	2970	94,9	0,89	59,5	2	9,5	2,3	83
4 poles electric motors											
1	5AL-80M1-4	0,55	1,3	1455	86,7	0,74	3,6	2,4	6,6	2,3	61
2	5AL-80M2-4	0,75	1,7	1455	88,2	0,74	4,9	2,3	8,5	2,3	61
3	5AL-90S-4	1,1	2,5	1460	89,5	0,75	7,2	2,3	8,5	2,3	64
4	5AL-90L-4	1,5	3,3	1460	90,4	0,76	9,8	2,3	9	2,3	64
5	5AL-100L1-4	2,2	4,6	1470	91,4	0,79	14,3	2,3	9	2,3	69
6	5AL-100L2-4	3	6,2	1470	92,1	0,8	19,5	2,3	9,5	2,3	69
7	5AL-112M-4	4	8,2	1470	92,8	0,8	26	2,3	9,5	2,3	70
8	5AL-132S-4	5,5	11,2	1480	93,4	0,8	35,5	2	9,5	2,3	76
9	5AL-132M-4	7,5	15,0	1475	94,0	0,81	48,6	2	9,5	2,3	76
10	5AL-160M-4	11	21,3	1485	94,6	0,83	70,7	2	9,5	2,3	78
11	5AL-160L-4	15	28,5	1485	95,1	0,84	96,5	2	9,5	2,3	78

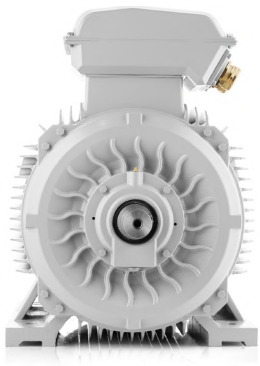
Technical data 5AL

	Frame reference and size	Output power	Full load current at rated voltage	Full load speed in revolutions per minute	Efficiency	Power factor	Rated power	Direct on line starting torque ratio	Direct on line starting current ratio	Direct on line pull out torque ratio	Noise
		Power	Amps (A)	Speed	η	Power factor	Power	LRT	LRA	BDT	Noise
NO.	Type	kW	400V	r/min	(%)	(cosΦ)	kW	RLT	RLA	RLT	LwdB (A)
					6 poles electric motors						
1	5AL-80M1-6	0,37	1	950	81,6	0,68	3,76	1,9	6	2,1	61
2	5AL-80M2-6	0,55	1,5	950	84,2	0,68	5,59	1,9	6	2,1	61
3	5AL-90S-6	0,75	1,9	965	85,7	0,7	7,38	2,1	7,5	2,1	64
4	5AL-90L-6	1,1	2,7	970	87,2	0,7	10,8	2,1	7,5	2,1	64
5	5AL-100L-6	1,5	3,6	980	88,4	0,71	14,6	2,1	7,5	2,1	68
6	5AL-112M-6	2,2	5,2	980	89,7	0,71	21,4	2,1	7,5	2,1	72
7	5AL-132S-6	3	7,1	980	90,6	0,71	29,1	2	7,5	2,1	76
8	5AL-132M1-6	4	9,2	985	91,4	0,72	38,8	2	8	2,1	76
9	5AL-132M2-6	5,5	12,6	985	92,2	0,72	53,3	2	8	2,1	76
10	5AL-160M-6	7,5	16,1	985	92,9	0,76	72,7	2	8	2,1	80
11	5AL-160L-6	11	23,2	985	93,7	0,77	107	2	8,5	2,1	80
					8 poles electric motors						
1	5AL-100L1-8	0,75	2,1	720	82	0,66	9,95	2	7	2,0	67
2	5AL-100L2-8	1,1	3	720	84	0,67	14,6	2	7	2,0	67
3	5AL-112M-8	1,5	3,9	720	85,5	0,69	19,9	2	7	2	69
4	5AL-132S-8	2,2	5,5	730	87,2	0,7	28,6	1,8	7,5	2	72
5	5AL-132M-8	3	7,4	730	88,4	0,7	39,0	1,8	7,8	2,0	72
6	5AL-160M1-8	4	9,6	735	89,4	0,71	52	1,8	7,9	2	76
7	5AL-160M2-8	5,5	12,8	735	90,4	0,72	71,5	1,8	8,1	2,0	76
8	5AL-160L-8	7,5	16,9	735	91,3	0,74	97,5	1,8	7,8	2	76



5LC Series

Electric motors for standard and heavy duty in a cast iron frame



VYBO Electric

SOLUTIONS FOR INDUSTRY

Technical data 5LC

	Frame reference and size	Output power	Full load current at rated voltage	Full load speed in revolutions per minute	Efficiency	Power factor	Rated power	Direct on line starting torque ratio	Direct on line starting current ratio	Direct on line pull out torque ratio	Noise
		Power	Amps (A)	Speed	η	Power factor	Power	LRT	LRA	BDT	Noise
NO.	Type	kW	400V	r/min	(%)	(cosΦ)	kW	RLT	RLA	RLT	LwdB (A)
	2 poles electric motors										
1	5LC-80M1-2	0,75	1,6	2915	86,3	0,83	2,47	2,2	8,5	2,3	64
2	5LC-80M2-2	1,1	2,3	2910	87,8	0,83	3,62	2,2	8,5	2,3	64
3	5LC-90S-2	1,5	3	2905	88,9	0,85	4,92	2,2	9	2,3	69
4	5LC-90L-2	2,2	4,3	2910	90,2	0,86	7,22	2,2	9	2,3	69
5	5LC-100L-2	3	5,8	2930	91,1	0,87	9,78	2,2	9,5	2,3	76
6	5LC-112M-2	4	7,5	2930	91,8	0,88	13	2,2	9,5	2,3	79
7	5LC-132S1-2	5,5	10,3	2955	92,6	0,88	17,8	2	9,5	2,3	81
8	5LC-132S2-2	7,5	13,7	2955	93,3	0,89	24,2	2	9,5	2,3	81
9	5LC-160M1-2	11	20	2975	94	0,89	35,3	2	9,5	2,3	83
10	5LC-160M2-2	15	27,1	2970	94,5	0,89	48,2	2	9,5	2,3	83
11	5LC-160L-2	18,5	33,3	2970	94,9	0,89	59,5	2	9,5	2,3	83
12	5LC-180M-2	22	39,5	2975	95,1	0,89	70,6	2	9,5	2,3	85
13	5LC-200L1-2	30	53,6	2975	95,5	0,89	96,3	2	9	2,3	86
14	5LC-200L2-2	37	65,9	2975	95,8	0,89	119	2	9	2,3	86
15	5LC-225M-2	45	80	2980	96	0,89	144	2	9	2,3	88
16	5LC-250M-2	55	97,6	2980	96,2	0,89	176	2	9	2,3	91
17	5LC-280S-2	75	132,7	2985	96,5	0,89	240	1,8	8,5	2,3	93
18	5LC-280M-2	90	159,1	2990	96,6	0,89	287	1,8	8,5	2,3	93
19	5LC-315S-2	110	194	2985	96,8	0,89	352	1,8	8,5	2,3	94
20	5LC-315M-2	132	232,6	2985	96,9	0,89	422	1,8	8,5	2,3	94
21	5LC-315L1-2	160	281,6	2985	97,0	0,89	512	1,8	8,5	2,2	94
22	5LC-315L2-2	200	351,3	2985	97,2	0,89	640	1,8	8,5	2,2	94
23	5LC-355M-2	250	429,4	2985	97,2	0,91	800	1,6	8,5	2,2	99
24	5LC-355L-2	315	541,1	2985	97,2	0,91	1008	1,6	8,5	2,2	99

Technical data 5LC

	Frame reference and size	Output power	Full load current at rated voltage	Full load speed in revolutions per minute	Efficiency	Power factor	Rated power	Direct on line starting torque ratio	Direct on line starting current ratio	Direct on line pull out torque ratio	Noise
		Power	Amps (A)	Speed	η	Power factor	Power	LRT	LRA	BDT	Noise
NO.	Type	kW	400V	r/min	(%)	(cosΦ)	kW	RLT	RLA	RLT	LwdB (A)
					4 poles electric motors						
1	5LC-80M1-4	0,55	1,3	1455	86,7	0,74	3,6	2,4	6,6	2,3	61
2	5LC-80M2-4	0,75	1,7	1455	88,2	0,74	4,9	2,3	8,5	2,3	61
3	5LC-90S-4	1,1	2,5	1460	89,5	0,75	7,2	2,3	8,5	2,3	64
4	5LC-90L-4	1,5	3,3	1460	90,4	0,76	9,8	2,3	9	2,3	64
5	5LC-100L1-4	2,2	4,6	1470	91,4	0,79	14,3	2,3	9	2,3	69
6	5LC-100L2-4	3	6,2	1470	92,1	0,8	19,5	2,3	9,5	2,3	69
7	5LC-112M-4	4	8,2	1470	92,8	0,8	26	2,3	9,5	2,3	70
8	5LC-132S-4	5,5	11,2	1480	93,4	0,8	35,5	2	9,5	2,3	76
9	5LC-132M-4	7,5	15,0	1475	94,0	0,81	48,6	2	9,5	2,3	76
10	5LC-160M-4	11	21,3	1485	94,6	0,83	70,7	2	9,5	2,3	78
11	5LC-160L-4	15	28,5	1485	95,1	0,84	96,5	2	9,5	2,3	78
12	5LC-180M-4	18,5	34,7	1485	95,3	0,85	119	2	9,5	2,3	80
13	5LC-180L-4	22	41,2	1485	95,5	0,85	141	2	9,5	2,3	80
14	5LC-200L-4	30	55,9	1485	95,9	0,85	193	2	9	2,3	80
15	5LC-225S-4	37	68,8	1490	96,1	0,85	237	2	9	2,3	81
16	5LC-225M-4	45	83,5	1490	96,3	0,85	288	2	9	2,3	81
17	5LC-250M-4	55	100,7	1490	96,5	0,86	353	2	9	2,3	82
18	5LC-280S-4	75	135,5	1490	96,7	0,87	479	2	8,5	2,3	83
19	5LC-280M-4	90	160,4	1490	96,9	0,88	577	2	8,5	2,3	83
20	5LC-315S-4	110	193,6	1490	97	0,89	705	1,8	8,5	2,2	91
21	5LC-315M-4	132	232,1	1490	97,1	0,89	846	1,8	8,5	2,2	91
22	5LC-315L1-4	160	277,9	1490	97,2	0,90	1026	1,8	8,5	2,2	91
23	5LC-315L2-4	200	346,7	1490	97,4	0,9	1282	1,8	8,5	2,2	91
24	5LC-355M-4	250	433,3	1495	97,4	0,9	1602	1,8	8,5	2,2	94
25	5LC-355L-4	315	546	1495	97,4	0,9	2019	1,8	8,5	2,2	94

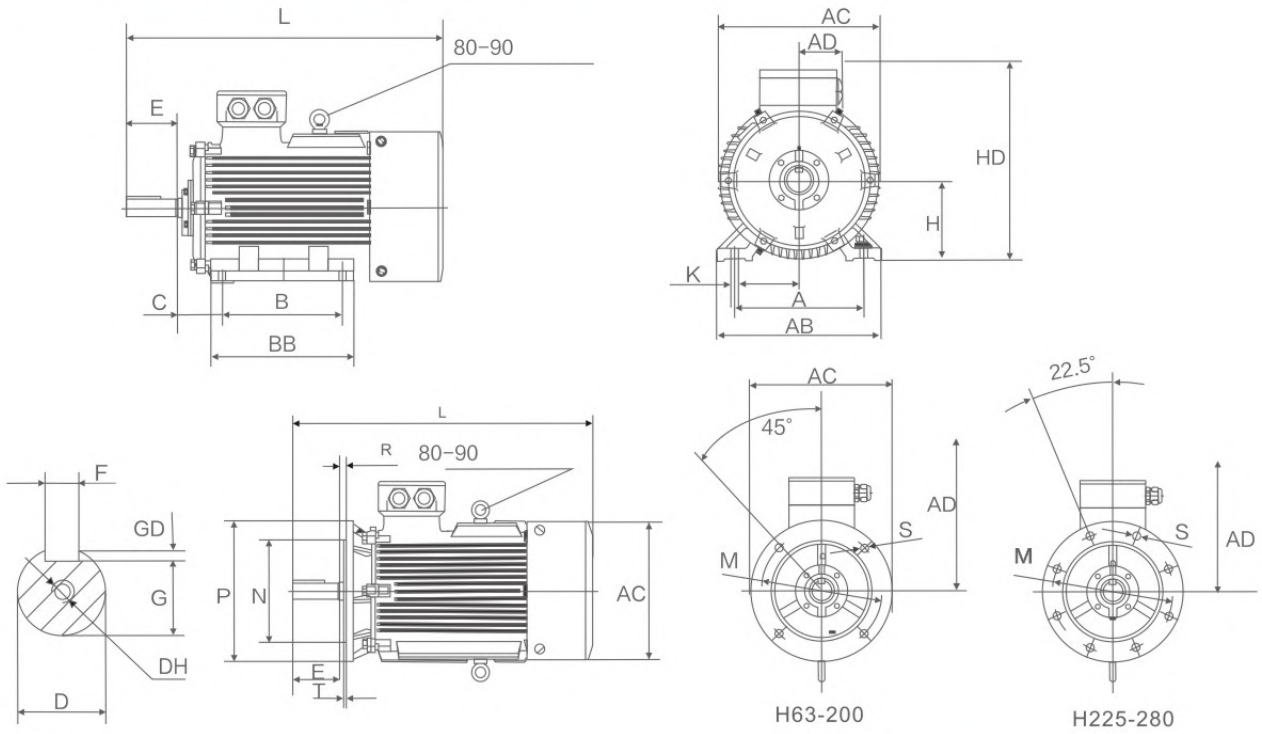
Technical data 5LC

	Frame reference and size	Output power	Full load current at rated voltage	Full load speed in revolutions per minute	Efficiency	Power factor	Rated power	Direct on line starting torque ratio	Direct on line starting current ratio	Direct on line pull out torque ratio	Noise
		Power	Amps (A)	Speed	η	Power factor	Power	LRT	LRA	BDT	Noise
NO.	Type	kW	400V	r/min	(%)	(cosΦ)	kW	RLT	RLA	RLT	LwdB (A)
					6 poles electric motors						
1	5LC-80M1-6	0,37	1	950	81,6	0,68	3,76	1,9	6	2,1	61
2	5LC-80M2-6	0,55	1,5	950	84,2	0,68	5,59	1,9	6	2,1	61
3	5LC-90S-6	0,75	1,9	965	85,7	0,7	7,38	2,1	7,5	2,1	64
4	5LC-90L-6	1,1	2,7	970	87,2	0,7	10,8	2,1	7,5	2,1	64
5	5LC-100L-6	1,5	3,6	980	88,4	0,71	14,6	2,1	7,5	2,1	68
6	5LC-112M-6	2,2	5,2	980	89,7	0,71	21,4	2,1	7,5	2,1	72
7	5LC-132S-6	3	7,1	980	90,6	0,71	29,1	2	7,5	2,1	76
8	5LC-132M1-6	4	9,2	985	91,4	0,72	38,8	2	8	2,1	76
9	5LC-132M2-6	5,5	12,6	985	92,2	0,72	53,3	2	8	2,1	76
10	5LC-160M-6	7,5	16,1	985	92,9	0,76	72,7	2	8	2,1	80
11	5LC-160L-6	11	23,2	985	93,7	0,77	107	2	8,5	2,1	80
12	5LC-180L-6	15	30,2	990	94,3	0,8	145	2	8,5	2,1	79
13	5LC-200L1-6	18,5	37,1	990	94,6	0,8	178	2	8,5	2,1	79
14	5LC-200L2-6	22	43,5	990	94,9	0,81	212	2	8,5	2,1	79
15	5LC-225M-6	30	58,3	990	95,3	0,82	289	2	8,3	2,1	80
16	5LC-250M-6	37	70,8	990	95,6	0,83	357	2	8,3	2,1	82
17	5LC-280S-6	45	86	990	95,8	0,83	432	2	8,5	2	84
18	5LC-280M-6	55	103,6	990	96	0,84	528	2	8,5	2	84
19	5LC-315S-6	75	140,9	990	96,3	0,84	723	1,6	8	2	88
20	5LC-315M-6	90	166,7	990	96,5	0,85	868	1,6	8	2	88
21	5LC-315L1-6	110	203,5	990	96,6	0,85	1061	1,6	8	2	88
22	5LC-315L2-6	132	240,9	990	96,8	0,86	1273	1,6	8	2	88
23	5LC-355M1-6	160	291,7	995	96,9	0,86	1543	1,6	8	2	89
24	5LC-355M2-6	200	364,3	995	97,0	0,86	1920	1,6	8	2,0	89

Technical data 5LC

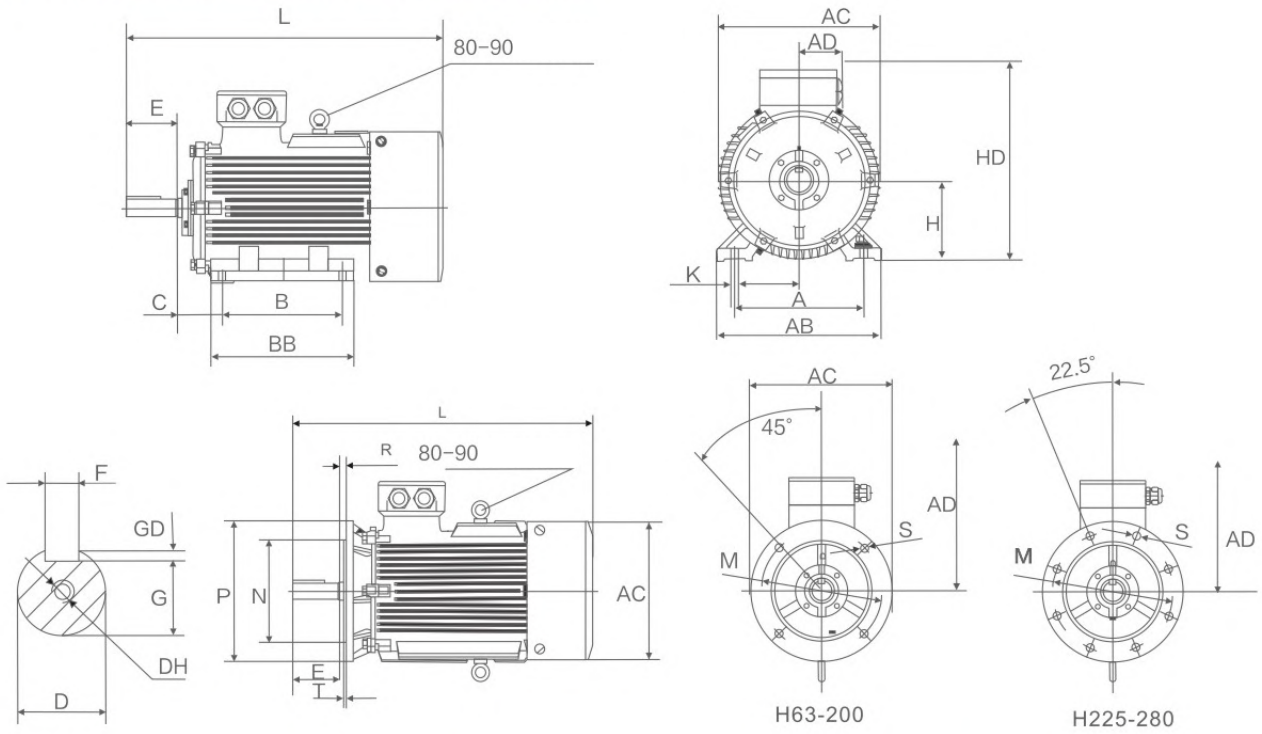
	Frame reference and size	Output power	Full load current at rated voltage	Full load speed in revolutions per minute	Efficiency	Power factor	Rated power	Direct on line starting torque ratio	Direct on line starting current ratio	Direct on line pull out torque ratio	Noise
		Power	Amps (A)	Speed	η	Power factor	Power	LRT	LRA	BDT	Noise
NO.	Type	kW	400V	r/min	(%)	(cosΦ)	kW	RLT	RLA	RLT	LwdB (A)
					8 poles electric motors						
1	5LC-100L1-8	0,75	2,1	720	82	0,66	9,95	2	7	2,0	67
2	5LC-100L2-8	1,1	3	720	84	0,67	14,6	2	7	2,0	67
3	5LC-112M-8	1,5	3,9	720	85,5	0,69	19,9	2	7	2	69
4	5LC-132S-8	2,2	5,5	730	87,2	0,7	28,6	1,8	7,5	2	72
5	5LC-132M-8	3	7,4	730	88,4	0,7	39,0	1,8	7,8	2,0	72
6	5LC-160M1-8	4	9,6	735	89,4	0,71	52	1,8	7,9	2	76
7	5LC-160M2-8	5,5	12,8	735	90,4	0,72	71,5	1,8	8,1	2,0	76
8	5LC-160L-8	7,5	16,9	735	91,3	0,74	97,5	1,8	7,8	2	76
9	5LC-180L-8	11	24,5	735	92,2	0,74	143	1,8	7,9	2	77
10	5LC-200L-8	15	32,7	740	92,9	0,75	194	1,8	8	2	80
11	5LC-225S-8	18,5	40,2	740	93,3	0,75	239	1,8	8,1	2	80
12	5LC-225M-8	22	47	740	93,6	0,76	284	1,8	8,3	2	80
13	5LC-250M-8	30	62,9	740	94,1	0,77	387	1,8	7,9	2	82
14	5LC-280S-8	37	76,3	740	94,4	0,78	474	1,8	7,9	2	83
15	5LC-280M-8	45	92,6	740	94,7	0,78	577	1,8	7,9	2	83
16	5LC-315S-8	55	110,1	740	94,9	0,80	715	1,6	8,2	2	88
17	5LC-315M-8	75	149,5	740	95,3	0,8	974	1,6	7,6	2	88
18	5LC-315L1-8	90	176,8	740	95,5	0,81	1169	1,6	7,7	2	88
19	5LC-315L2-8	110	215,6	740	95,7	0,81	1429	1,6	7,7	2	88
20	5LC-355M1-8	132	258,2	740	95,9	0,81	1715	1,6	7,7	2	94
21	5LC-355M2-8	160	308,5	740	96,1	0,82	2065	1,6	7,7	2	94
22	5LC-355L-8	200	384,8	740	96,3	0,82	2581	1,6	7,8	2	94

Mounting and overall dimensions



	Mounting Dimensions															Overall Dimensions				
Frame size	A	B	C	D	E	F	G	H	K	M	N	P	R	S	T	AB	AC	AD	HD	L
80M	125	100	50	19	40	6	15,5	80	10	165	130	200	0	12	3,5	165	156	122	168	390
90S	140	100	56	24	50	8	20	90	10	165	130	200	0	12	3,5	180	175	138	185	415
90L	140	125	56	24	50	8	20	90	10	165	130	200	0	12	3,5	180	175	138	185	465
100L	160	140	63	28	60	8	24	100	12	215	180	250	0	14,5	4	205	196	150	238	508
112M	190	140	70	28	60	8	24	112	12	215	180	250	0	14,5	4	230	220	160	260	530
132S	216	140	89	38	80	10	33	132	12	265	230	300	0	14,5	4	270	255	200	313	570
132M	216	178	89	38	80	10	33	132	12	265	230	300	0	14,5	4	270	255	200	313	610
160M	254	210	108	42	110	12	37	160	14,5	300	250	350	0	18,5	5	320	315	252	385	700
160L	254	254	108	42	110	12	37	160	14,5	300	250	350	0	18,5	5	320	315	252	385	750
180M	279	241	121	48	110	14	42,5	180	14,5	300	250	350	0	18,5	5	355	360	270	415	835
180L	279	279	121	48	110	14	42,5	180	14,5	300	250	350	0	18,5	5	355	360	270	415	885
200L	318	305	133	55	110	16	49	200	18,5	350	300	400	0	18,5	5	395	400	308	468	780
225S	356	286	149	60	140	18	53	225	18,5	400	350	450	0	18,5	5	435	445	330	520	880
225M-2	356	311	149	55	110	16	49	225	18,5	400	350	450	0	18,5	5	435	445	330	520	980
225M-4-6	356	311	149	60	140	18	53	225	18,5	400	350	450	0	18,5	5	435	445	330	520	980

Mounting and overall dimensions



	Mounting Dimensions															Overall Dimensions				
Frame size	A	B	C	D	E	F	G	H	K	M	N	P	R	S	T	AB	AC	AD	HD	L
250M-2	406	349	168	60	140	18	53	250	24	500	450	550	0	18,5	5	490	490	360	570	980
250M-4-6	406	349	168	65	140	18	58	250	24	500	450	550	0	18,5	5	490	490	360	570	980
280S-2	457	368	190	65	140	18	58	280	24	500	450	550	0	18,5	5	550	550	405	630	1080
280S-4-6	457	368	190	75	140	20	67,5	280	24	500	450	550	0	18,5	5	550	550	405	630	1080
280M-2	457	419	190	65	140	18	58	280	24	500	450	550	0	18,5	5	550	550	405	630	1140
280M-4-6	457	419	190	75	140	20	67,5	280	24	500	450	550	0	18,5	5	550	550	405	630	1140
315S-2	508	406	216	65	140	18	58	315	28	600	550	660	0	24	6	635	620	504	755	1310
315S-4-6	508	406	216	80	170	22	71	315	28	600	550	660	0	24	6	635	620	504	755	1340
315M-2	508	457	216	65	140	18	58	315	28	600	550	660	0	24	6	635	620	504	755	1410
315M-4-6	508	457	216	80	170	22	71	315	28	600	550	660	0	24	6	635	620	504	755	1440
315L-2	508	508	216	65	140	18	58	315	28	600	550	660	0	24	6	635	620	504	755	1460
315L-4-6	508	508	216	80	170	22	71	315	28	600	550	660	0	24	6	635	620	504	755	1490
355M-2	610	560	254	75	140	20	67,5	355	28	740	680	800	0	24	6	730	710	950	840	1520
355M-4-6	610	560	254	95	170	25	86	355	28	740	680	800	0	24	6	730	710	950	840	1550
355L-2	610	630	254	75	140	20	67,5	355	28	740	680	800	0	24	6	730	710	950	840	1620
355L-4-6	610	630	254	95	170	25	86	355	28	740	680	800		24	6	730	710	950	840	1650

Address

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052 01 Spišská Nová Ves
Slovenská republika

tel: +421 944 105 361
e-mail: mv@vyboelectric.eu

www.vyboelectric.com

SOLUTIONS FOR INDUSTRY

BUREAU VERITAS Certification

VYBO Electric a.s.
Radlinského 18, 052 01 Spišská Nová Ves
Slovak Republic

Bureau Veritas Certification Holding SAS – UK Branch certifies that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standards detailed below

ISO 14001: 2015

Scope of certification

MANUFACTURE AND SALE OF ELECTRIC MOTORS. SALES AND DEVELOPMENT OF VARIABLE FREQUENCY DRIVES.

Original cycle start date:	**18.05.2022**
Expiry date of previous cycle:	**N/A**
Certification Audit date:	**31.03.2022**
Certification cycle start date:	**18.05.2022**

Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on: **17.05.2025**

Certificate No. *SK-U22 055E* *Version: 1* *Issue date: 18.05.2022*

Certification body address: 5th Floor, 66 Prescot Street, London E1 8HG, United Kingdom
Local office: Plynárenská 7/B, BRATISLAVA 821 09, Slovak Republic

Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organization.
To check this certificate validity please call: + 421 2 5341 4165

Page 1 of 1

Bureau Veritas Certification

Certificate

Awarded to

VYBO Electric a.s.
Radlinského 18, 052 01 Spišská Nová Ves
Slovak Republic

BUREAU VERITAS CERTIFICATION CZ s.r.o. certifies that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standard detailed below.

Standard

ISO 45001:2018

Scope of supply

MANUFACTURE AND SALE OF ELECTRIC MOTORS. SALES AND DEVELOPMENT OF VARIABLE FREQUENCY DRIVES.

Original Approval Date:	18-05-2022
Expiry date of previous cycle:	N/A
Certification Cycle Start Date:	18-05-2022
Certification Cycle End Date:	17-05-2025

Subject to the continued satisfactory operation of the organisation's Management System, this certificate is valid until: 17-05-2025

To check this certificate validity please call: +420 210 088 215

Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organisation.

Version 1 Issue Date: 18-05-2022

Certificate Number: CZE - 2200117

MANAGING OFFICE: BUREAU VERITAS CERTIFICATION CZ, s.r.o., Olbrachtova 1, 140 00 Praha 4, Czech Republic

ISSUING OFFICE ADDRESS: BUREAU VERITAS CERTIFICATION CZ, s.r.o., Olbrachtova 1, 140 00 Praha 4, Czech Republic

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ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

IAF MEMBER OF MULTILATERAL RECOGNITION ARRANGEMENT

SNAS Reg. No. 153/Q-011

TÜV SÜD Slovakia

CERTIFICATE

TÜV SÜD Slovakia s.r.o.
Certification Body for Management Systems
Accredited by SNAS
Certificate on accreditation No. Q-011
certifies that

VYBO Electric a.s.
Radlinského 18
SK – 052 01 Spišská Nová Ves
IČO: 45 537 143

has established and applies
a Quality Management System for

Manufacture and sale of electric motors.
Sales and development of variable frequency drives.

An audit was performed, Report No. **2264/40/22/Q/AS/C**
Proof has been furnished that the requirements
according to

STN EN ISO 9001:2016

are fulfilled. The certificate is valid from **2022-04-14** until **2025-04-13**
Certificate Registration No. **Q 2264-1**

Bratislava, 2022-04-14

TÜV SÜD Slovakia s.r.o.
Certification Body for Management Systems
Member of Group TÜV SÜD
Jašíkova 6, 821 03 Bratislava

F-Q-019/2/6

Certificate SK22/3701

The management system of

VYBO Electric a.s.
Radlinského 18
052 01 Spišská Nová Ves, Slovakia

has been assessed and certified as meeting the requirements of

EN ISO 50001:2018

For the following activities

Production & sales of electric motors.
Sales & development of variable frequency drives.

Further clarifications regarding the scope of this certificate and the applicability of EN ISO 50001:2018 requirements may be obtained by consulting the organisation.

This certificate is valid from 7 April 2022 until 6 April 2025
and remains valid subject to satisfactory surveillance audits.
Recertification audit due a minimum of 60 days
before the expiration date.
Issue 1. Certified with SGS since 7 April 2022

Authorised by

Ing. Róbert Bodnár
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SYSTEM CERTIFICATION ISO 50001 SGS

SNAS Reg. No. 158/R-099