



**IE2 and IE3  
THREE PHASE ASYNCHRONOUS  
ELECTRIC MOTORS**

**PRODUCT CATALOGUE**

**ELK 0400-0616**





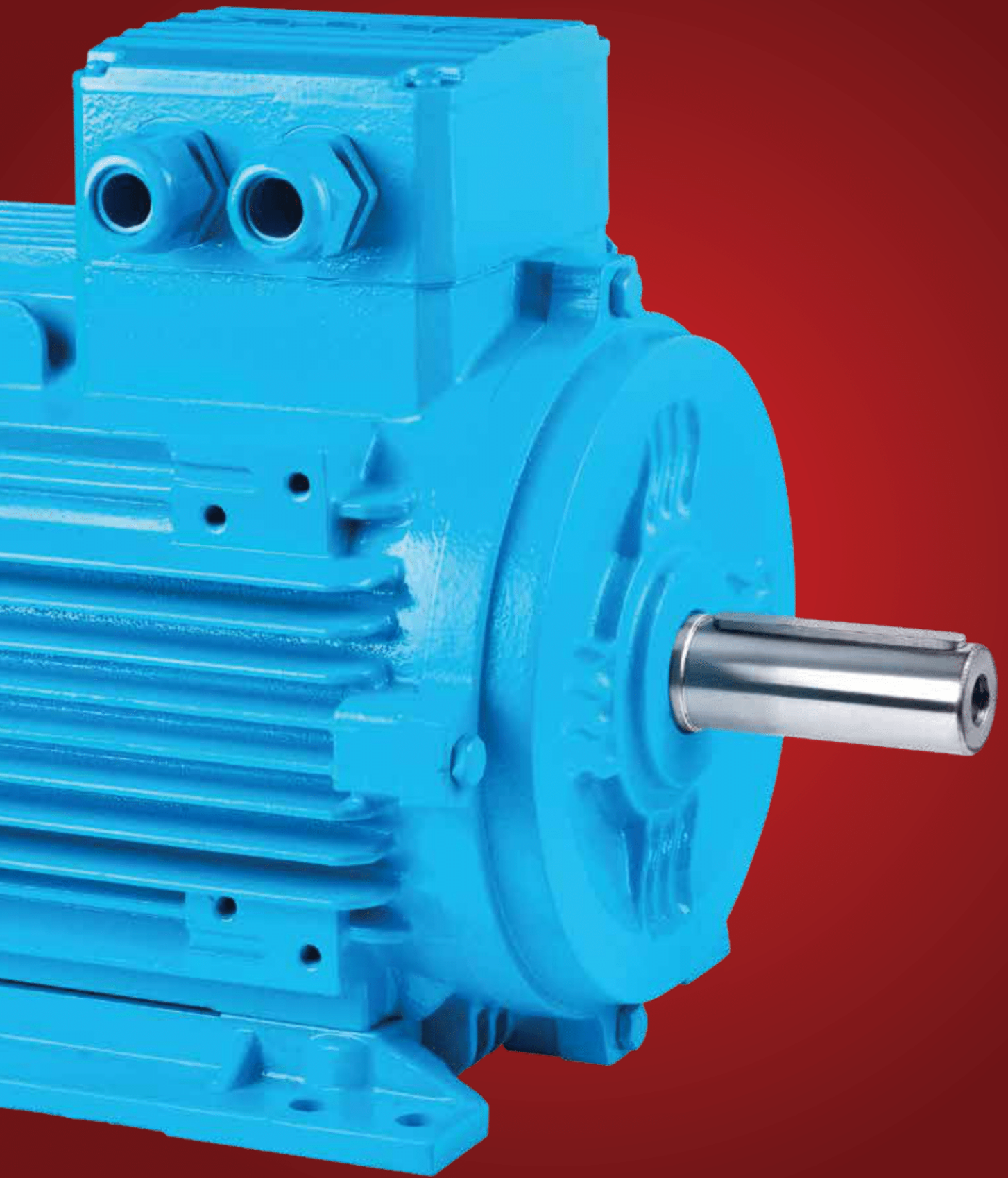


## PRODUCTION SITE AND PRODUCTION TECHNOLOGY

ELK Motor has been founded by major shareholders of Yılmaz Redüktör A.Ş. as the continuation of the product family. ELK motor manufactures electric motors from 71 up to and including 180 IEC frame size in a 40.000m<sup>2</sup> closed area built on a 100.000m<sup>2</sup> open area.

ELK motors are designed and manufactured completely in accordance with European standard with its whole product range. IE2 and IE3 efficiency classes are available in full product range currently.

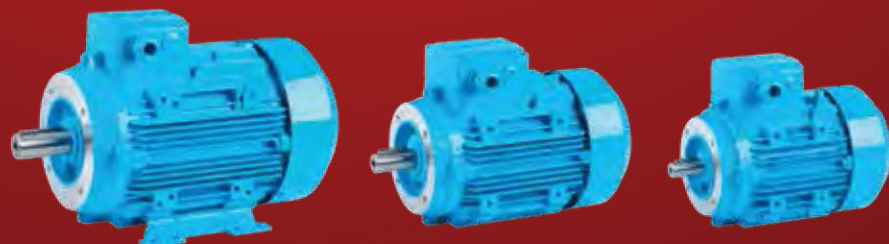
**ELK**  
MOTOR



## IE2 and IE3 Motors

The main design and technology of ELK motor is completely suitable to the IE3 efficiency class. Since the outside dimensions of the IE3 and IE2 design are completely same the replacement of the IE2 motor with IE3 motors will be done easily.

In addition to the motors according to the European standards, ELK motor also manufactures special motors for its customers to decrease the cost and increase the productivity.





## ELK Motors;

From engineering to manufacturing processes ELK motors are completely manufactured in our factory located in Çerkezköy, 100km far away from Istanbul.

Motor shafts and end shields are manufactured by fully automatic CNC machines under a continuous quality control. The rotor and stator cores are manufactured in our fully automatic punching and interlocking lines.



After injecting the pure aluminum into the rotor cores in a fully automatic rotor injection line the rotor cores becomes ready for assembly. In automatic winding lines stator cores are wound and varnished either by automatic dipping method or VPI (Vacuum Pressure Impregnation) method according to the needs and usage area. So the products are always in the best levels of quality and performance.

After all of these operations, our motors which are assembled in accordance with product prescriptions, are being tested and controlled fully for the last time and shipped to the customers after packaging.



A close-up photograph of numerous copper wire coils, likely for an electric motor. The wires are tightly packed and form a complex, interlocking pattern. The lighting is warm, highlighting the metallic sheen of the copper.

**ELK**  
MOTOR



## TECHNICAL INFORMATION

All of our standard products are designed, manufactured, and tested according to the IEC and EN standards given below:

IEC 60034-1	Rating and performance
IEC 60034-2-1	Methods for determining losses and efficiency
IEC 60034-5	Classification of degrees of protection
IEC 60034-6	Methods of cooling
IEC 60034-7	Symbols of construction and mounting arrangements
IEC 60034-8	Terminal markings and direction of rotation
IEC 60034-9	Noise limits
IEC 60034-11	Built-in thermal protection
IEC 60034-14	Vibration limits
IEC 60034-18-1	Functional evaluation of insulation system
IEC 60034-30	Efficiency classes (IE-code)
IEC 60038	Standard voltages
EN 50347	Dimensions and output for electrical machines

EN 55014-1	} Electromagnetic compatibility
EN 61000-3-2	
EN 61000-3-3	

According to IEC 60034-1, catalogue values are permitted to deviate from the real values as follows:

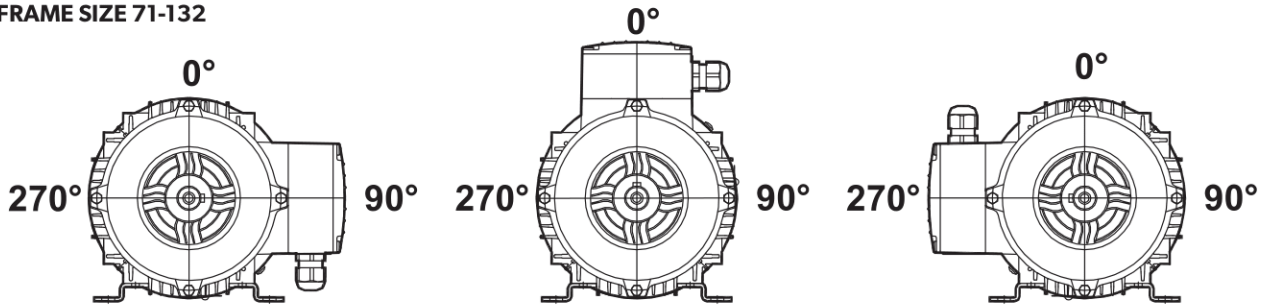
<b>Speed (n)</b>	$\Delta n = \pm 20\% (n_s - n_N), P_N > 1 \text{ kW}$ $\Delta n = \pm 30\% (n_s - n_N), P_N \leq 1 \text{ kW}$
<b>Efficiency %(<math>\eta</math>)</b>	$\Delta \eta = -15\% (100 - \eta_N), P_N \leq 150 \text{ kW}$ $\Delta \eta = -10\% (100 - \eta_N), P_N > 150 \text{ kW}$
<b>Power factor (cos <math>\phi</math>)</b>	$\text{Cos } \phi = -1/6 (1 - \text{Cos } \phi)$
<b>Locked rotor current (<math>I_{LN}</math>)</b>	$\Delta (I_{LN}) = +20\% (I_{LN})$
<b>Starting Torque (<math>M_L/M_N</math>)</b>	min. ( $M_L/M_N$ ) = -15% ( $M_L/M_N$ ) max. ( $M_L/M_N$ ) = +25% ( $M_L/M_N$ )
<b>Break down Torque (<math>M_K/M_N</math>)</b>	$(M_K/M_N) = -10\% (M_K/M_N)$
<b>Moment of Inertia (J) [kgm<sup>2</sup>]</b>	$\Delta J = \pm 10\% J$
<b>Sound Pressure Level (<math>L_{PA}</math>) [dB(A)]</b>	$L_{PA} = +3 \text{ dB (A)}$

# TECHNICAL INFORMATION

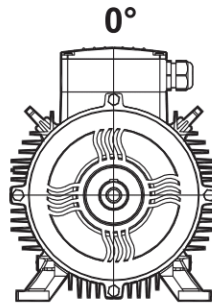
## MECHANICAL CONSTRUCTION

71-132 frame size ELK Motors provides flexibility for different mounting types through their detachable feet which can be mounted on three sides. This feature allows terminal box assembly on the desired side. Terminal box is on the top for standard motors. 160 and 180 frame size motors have fixed feet construction.

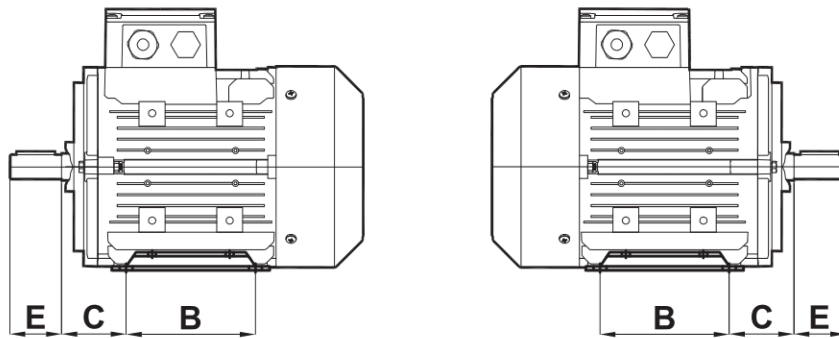
### FRAME SIZE 71-132



### FRAME SIZE 160-180



Additionally the housing and end shields are designed symmetrically for all of the frame sizes, so that the drive and non-drive side end shields can be replaced and the direction of the rotor shaft group can be changed. By making these end shields and rotor shaft group modifications the user can have a motor with terminal box on the non-drive side keeping the distance C according to the standard.



The raw materials that we use in our motor depending on the frame size are listed below.

Frame Size	Housing	End Shields	Terminal Box and Cover	Feet	Fan Cover	Fan
71	Aluminum	Aluminum	Aluminum	Steel	Steel	Plastic
80	Aluminum	Aluminum	Aluminum	Steel	Steel	Plastic
90	Aluminum	Aluminum	Aluminum	Steel	Steel	Plastic
100	Aluminum	Aluminum	Aluminum	Steel	Steel	Plastic
112	Aluminum	Aluminum	Aluminum	Steel	Steel	Plastic
132	Aluminum	Aluminum	Aluminum	Steel	Steel	Plastic
160	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Steel	Plastic
180	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Steel	Plastic

# TECHNICAL INFORMATION

## ELECTRICAL CONSTRUCTION

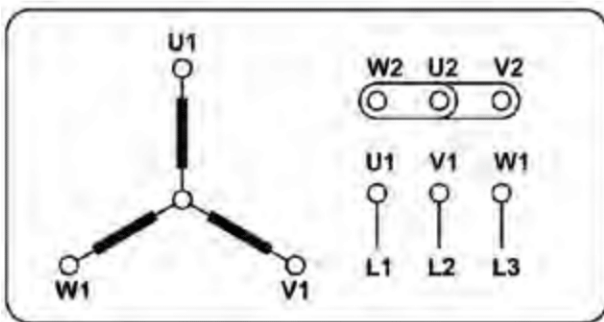
Our standard motors have insulation Class F while the temperature rise is Class B. This means the motors will have a longer service life and work under hard conditions.

Upon the customer's request, Class H insulation motors are manufactured.

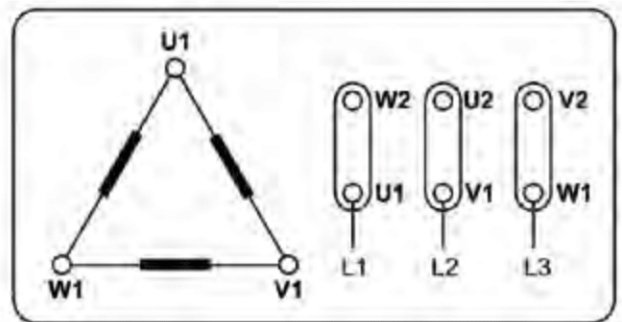
## ELECTRICAL CONNECTIONS

Frame Size	71 - 80 - 90	100 - 112 - 132	160 - 180
Cable Glands	M20 + M16	M25 + M25	M32 + M32

The motors shall be connected in star or delta according to rated voltage given in their nameplate and the network voltage that they will be connected. For phase to phase 400 V supply the motors with 230/400V nameplate values shall be connected in star and the motors with 400/690V nameplate values shall be connected in delta.



Y Star Connection



Δ Delta Connection

## RUNNING THE MOTORS AT 60Hz NETWORK

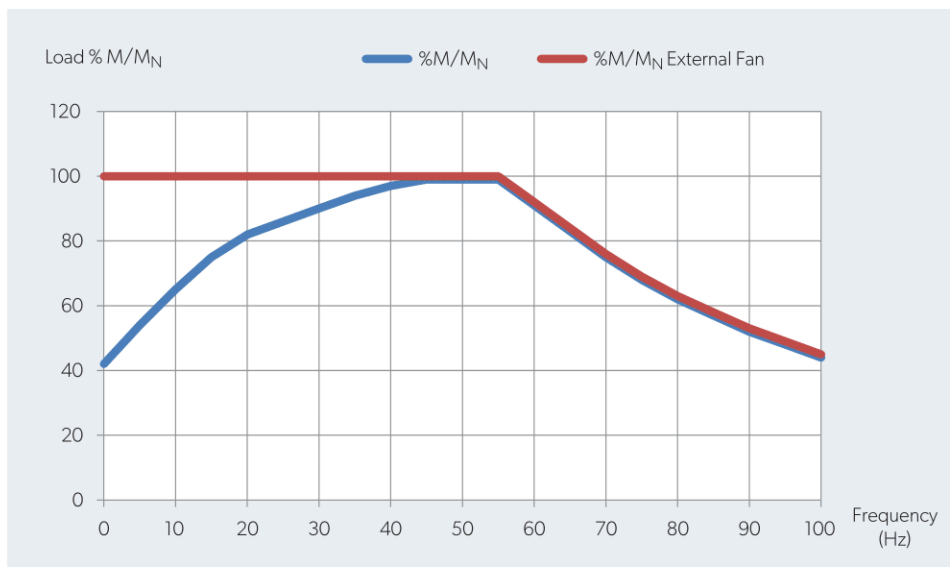
Our standard motors that have been manufactured for 50 Hz power supply can be used at 60 Hz network. The ratios given below indicate changes in the given rated values.

50 Hz Rated Voltage	60 Hz Supply Voltage	Rated Speed	Rated Power	Rated Torque	Rated Current	Starting Torque	Break Down Torque	Starting Current
230V	220V	1.193	1	0.84	0.97	0.77	0.8	0.8
400V	380V	1.193	1	0.84	0.97	0.77	0.8	0.8
400V	440V	1.20	1.16	0.97	0.98	0.87	0.9	0.9

# TECHNICAL INFORMATION

## SPEED CONTROL AND DRIVERS

Standard ELK motors are suitable for electronic speed control operations. The frequency range that the motor can be driven with their fan is given below with blue line. If the motor will be driven in a wider range then an external fan is necessary. By using an external fan the motors can be driven in the range defined by red line.



## ENVIRONMENTAL CONDITIONS

Motors are designed to operate at ambient temperature up to 40°C according to IEC 60034-1. Rated output will change at the % ratings given below for different ambient temperatures

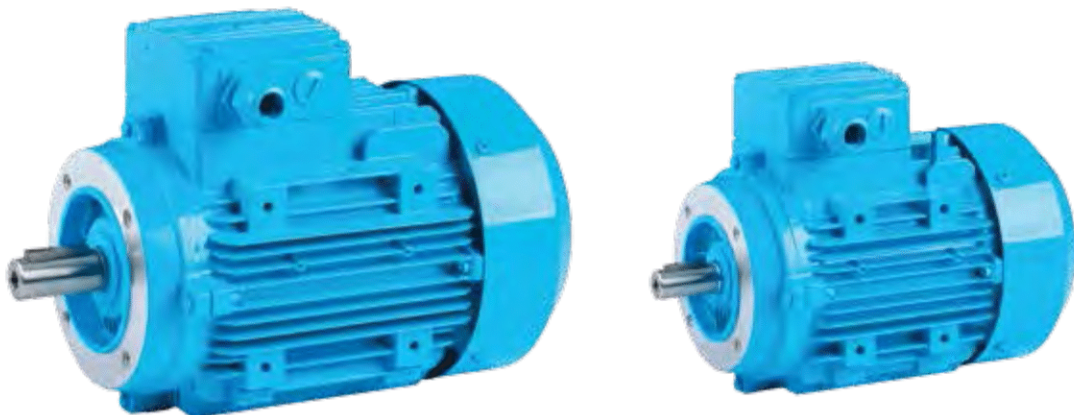
Ambient Temperature	<30 °C	35 °C	40 °C	45 °C	50 °C	55 °C	60 °C
% Power Ratio	105	102	100	97	93	87	82

## TECHNICAL INFORMATION

### BEARINGS

Standard motors are equipped with deep groove ball bearings with ZZ shields as listed below according to the frame size. NU NJ type bearing are optional.

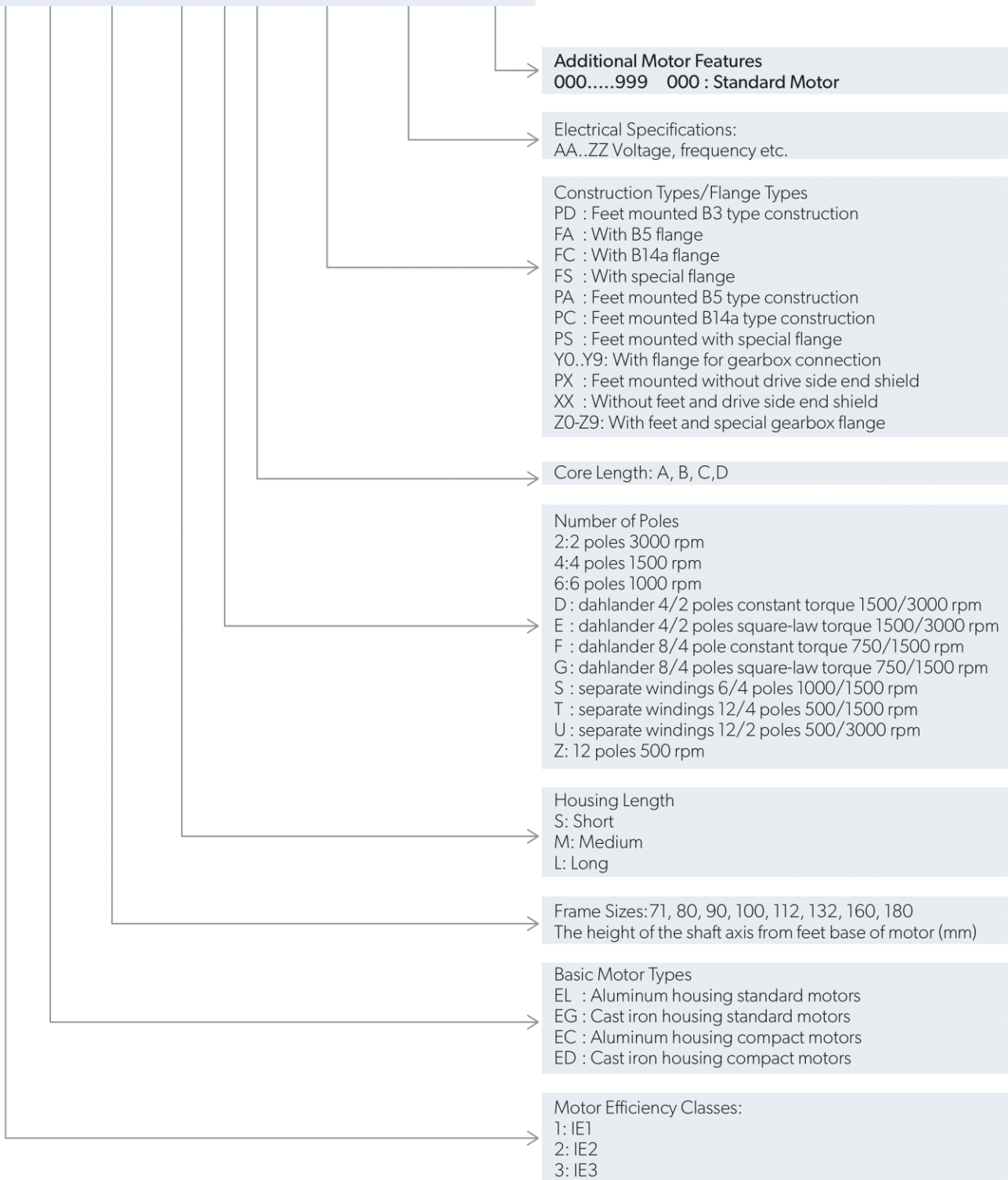
Frame Size	Drive Side End Shield	Non Drive Side End Shield
71	6202 ZZ	6202 ZZ
80	6204 ZZ	6204 ZZ
90	6205 ZZ	6205 ZZ
100	6206 ZZ	6206 ZZ
112	6206 ZZ	6206 ZZ
132	6208 ZZ	6208 ZZ
160	6309 ZZ	6209 ZZ
180	6310 ZZ	6210 ZZ



# TECHNICAL INFORMATION

## PRODUCT TYPE CODES

2 EL 132 M 4 C FC 00 000



# TECHNICAL INFORMATION

## PRODUCT TYPE CODES

00

### Electrical Specifications

AA..ZZ Voltage, frequency etc.

### 2nd digit: Additional Electrical Features

0: Standard motor, basic version

A: Motors with thermistor

B: Motors with heater

C: Motors with thermal switch

K: Motors with thermistor and heater

### 1st digit : Voltage and Frequency

A: 230/400V 50Hz

B: 400/690V 50Hz

C: 240/415V 50Hz

D: 415/720V 50Hz

E: 220/380V 60Hz Standard power

F: 380/660V 60Hz Standard power

G : 220V 60Hz

H : 290/500V 50Hz

I: 220/380V 60Hz 16% increased rated output power

J: 380/660V 60Hz 16% increased rated output power

# PERFORMANCE AND DIMENSIONS

## ELECTRICAL CHARACTERISTICS 400V 50Hz 3000 rpm

IE2

Voltage (V)	Type	Rated Values								Starting Values		Breakdown Torque	Moment of Inertia	B3 Motor Weight	Sound Pressure Level
		Power	Speed	Current	Torque	Power Factor	Efficiency % $\eta$			Current	Torque				
		kW	rpm	A	Nm	cos $\phi$	4/4	3/4	1/2	I <sub>A</sub> /I <sub>N</sub>	M <sub>A</sub> /M <sub>N</sub>				
230/400	2EL071M2A	0,37	2805	0,90	1,26	0,80	74,2	74,5	72,5	5,0	2,5	2,8	0,00067	5,5	54
	2EL071M2B	0,55	2800	1,25	1,87	0,84	75,8	77,0	76,0	5,0	2,4	2,7	0,00086	6,3	54
	2EL080M2A	0,75	2850	1,67	2,51	0,83	78,0	79,0	77,5	5,7	2,5	3,0	0,00120	8,7	56
	2EL080M2B	1,10	2850	2,36	3,69	0,84	80,1	81,3	80,7	5,8	2,7	3,1	0,00140	9,7	56
	2EL090S2A	1,50	2880	3,19	4,98	0,83	81,8	82,6	82,0	6,0	2,4	3,1	0,00200	14,1	60
	2EL090L2B	2,20	2860	4,48	7,35	0,85	83,2	85,0	85,0	6,0	2,6	3,1	0,00220	15,5	60
	2EL100L2B	3,00	2900	5,80	9,88	0,88	84,8	85,2	84,7	7,0	2,6	3,4	0,00460	20,8	63
400/690	2EL112M2A	4,00	2910	7,50	13,13	0,89	86,5	87,1	86,8	7,0	2,4	3,6	0,00850	25,7	66
	2EL132S2A	5,50	2930	10,20	17,93	0,89	87,4	87,8	87,0	7,5	2,4	3,7	0,01900	41,0	68
	2EL132S2B	7,50	2925	13,60	24,50	0,90	88,5	88,8	88,6	7,6	2,6	3,7	0,02200	45,2	68
	2EG160M2A	11,00	2940	19,70	35,73	0,90	89,4	89,6	88,2	7,4	2,4	3,5	0,04400	106,6	70
	2EG160M2B	15,00	2935	27,20	48,80	0,88	90,3	90,7	90,7	7,0	2,5	3,4	0,05300	112,8	70
	2EG160L2C	18,50	2935	32,20	60,19	0,91	91,1	91,5	91,0	8,2	2,9	3,8	0,06200	130,2	70
	2EG180M2A	22,00	2955	39,00	71,10	0,89	91,4	91,6	90,6	7,9	2,6	3,6	0,07100	162,6	70

## ELECTRICAL CHARACTERISTICS 400V 50Hz 1500 rpm

IE2

Voltage (V)	Type	Rated Values								Starting Values		Breakdown Torque	Moment of Inertia	B3 Motor Weight	Sound Pressure Level
		Power	Speed	Current	Torque	Power Factor	Efficiency % $\eta$			Current	Torque				
		kW	rpm	A	Nm	cos $\phi$	4/4	3/4	1/2	I <sub>A</sub> /I <sub>N</sub>	M <sub>A</sub> /M <sub>N</sub>				
230/400	2EL071M4B	0,25	1425	0,71	1,68	0,69	74,0	73,5	70,5	4,4	2,0	3,0	0,00080	5,9	46
	2EL071M4C	0,37	1425	1,00	2,47	0,70	76,1	75,5	71,5	4,6	2,0	3,0	0,00096	6,7	46
	2EL080M4B	0,55	1440	1,45	3,65	0,71	77,1	76,7	75,0	5,2	2,0	3,0	0,00180	9,7	50
	2EL080M4C	0,75	1440	1,89	4,97	0,72	79,6	79,2	77,0	5,2	2,0	3,0	0,00220	10,5	50
	2EL090S4B	1,10	1440	2,60	7,30	0,75	81,4	81,4	80,5	5,6	2,2	3,1	0,00320	14,4	52
	2EL090L4C	1,50	1440	3,40	9,95	0,77	82,8	83,0	82,0	6,0	2,3	3,2	0,00390	17,2	52
	2EL100L4B	2,20	1445	4,85	14,60	0,78	84,3	85,3	84,2	6,0	2,1	3,2	0,00800	22,7	54
	2EL100L4C	3,00	1440	6,42	19,89	0,79	85,5	85,7	84,6	6,3	2,3	3,1	0,01100	24,2	54
400/690	2EL112M4C	4,00	1450	8,20	26,35	0,81	86,8	87,4	86,5	6,6	2,5	3,4	0,01300	32,0	58
	2EL132S4B	5,50	1455	11,05	36,10	0,82	87,7	88,6	88,0	6,7	2,6	3,2	0,03000	47,8	62
	2EL132M4C	7,50	1460	15,00	49,00	0,81	88,7	89,0	89,0	7,0	2,7	3,3	0,03500	54,8	62
	2EG160M4B	11,00	1465	21,30	71,70	0,83	89,8	90,3	89,5	6,9	2,4	3,0	0,06800	113,6	65
	2EG160L4C	15,00	1460	28,80	98,12	0,83	90,6	91,3	90,9	6,9	2,6	3,0	0,08500	131,9	65
	2EG180M4B	18,50	1465	34,90	120,60	0,84	91,2	91,5	91,4	6,9	2,5	3,0	0,12600	157,6	65
	2EG180L4C	22,00	1465	41,40	143,40	0,84	91,6	91,7	91,5	7,1	2,6	3,2	0,14000	174,4	65



# PERFORMANCE AND DIMENSIONS

ELECTRICAL CHARACTERISTICS 400V 50Hz 1000 rpm

IE2

Voltage (V)	Type	Rated Values								Starting Values		Breakdown Torque	Moment of Inertia	B3 Motor Weight	Sound Pressure Level
		Power	Speed	Current	Torque	Power Factor	Efficiency % $\eta$			Current	Torque				
		kW	rpm	A	Nm	cos $\phi$	4/4	3/4	1/2	I <sub>A</sub> /I <sub>N</sub>	M <sub>A</sub> /M <sub>N</sub>				
230/400	2EL071M6B	0,18	920	0,60	1,87	0,67	64,5	63,0	57,0	3,2	1,9	2,3	0,00075	5,9	42
	2EL071M6C	0,25	920	0,78	2,59	0,69	66,5	66,0	61,0	3,3	1,9	2,3	0,00092	6,6	42
	2EL080M6A	0,37	925	1,08	3,82	0,69	71,4	71,5	70,0	4,0	2,0	2,6	0,00190	9,1	45
	2EL080M6B	0,55	932	1,50	5,64	0,72	73,5	74,0	71,0	4,2	2,1	2,6	0,00240	9,9	45
	2EL090S6A	0,75	940	2,00	7,62	0,71	75,9	76,1	73,1	4,1	2,0	2,6	0,00360	13,3	48
	2EL090L6B	1,10	940	2,90	11,18	0,70	78,1	78,3	75,0	4,3	2,1	2,6	0,00400	14,8	48
	2EL100L6A	1,50	950	3,72	15,00	0,73	79,8	80,2	79,5	4,5	2,1	2,6	0,01000	20,2	52
	2EL112M6A	2,20	960	5,32	21,90	0,73	81,8	82,0	81,5	5,3	2,1	2,7	0,01400	25,0	56
400/690	2EL132S6A	3,00	970	6,85	29,60	0,76	83,3	84,0	83,0	5,6	2,0	2,8	0,02800	42,0	60
	2EL132M6B	4,00	970	8,80	39,38	0,77	85,2	85,7	85,3	5,2	2,1	2,6	0,03400	46,0	60
	2EL132M6C	5,50	965	12,00	54,40	0,77	86,0	87,2	87,0	5,7	2,1	2,7	0,03900	51,0	60
	2EG160M6B	7,50	972	16,30	73,68	0,76	87,2	88,1	87,7	5,6	2,4	2,7	0,07900	113,2	63
	2EG160L6D	11,00	970	22,95	108,30	0,78	88,7	90,0	89,9	6,0	2,5	2,9	0,10500	136,1	63
	2EG180L6D	15,00	975	31,00	146,90	0,78	89,7	90,5	90,2	6,2	2,5	2,9	0,18000	175,2	64

# PERFORMANCE AND DIMENSIONS

ELECTRICAL CHARACTERISTICS 400V 50Hz 3000 rpm

IE3

Voltage (V)	Type	Rated Values								Starting Values		Breakdown Torque	Moment of Inertia	B3 Motor Weight	Sound Pressure Level
		Power	Speed	Current	Torque	Power Factor	Efficiency % $\eta$			Current	Torque				
		kW	rpm	A	Nm	Cos $\phi$	4/4	3/4	1/2	$I_A/I_N$	$M_A/M_N$				
230/400	3EL071M2B	0,37	2830	0,86	1,25	0,81	76,6	77,0	75,0	6,0	2,8	3,0	0,00086	6,2	53
	3EL071M2C	0,55	2830	1,19	1,86	0,84	79,4	80,2	78,8	6,1	2,9	3,3	0,00096	7,2	53
	3EL080M2B	0,75	2880	1,59	2,49	0,84	80,7	82,0	81,5	6,7	3,0	3,6	0,00140	9,6	54
	3EL080M2C	1,10	2880	2,26	3,64	0,85	82,7	83,0	82,4	6,8	3,1	3,8	0,00165	10,9	54
	3EL090S2B	1,50	2900	2,97	4,94	0,86	84,8	85,4	84,2	7,6	3,1	3,9	0,00220	15,6	59
	3EL090L2C	2,20	2900	4,25	7,24	0,87	85,9	86,8	86,1	7,2	3,0	3,8	0,00310	17,0	59
400/690	3EL100L2C	3,00	2915	5,58	9,83	0,89	87,1	87,6	86,9	7,9	3,0	4,1	0,00540	23,3	62
	3EL112M2C	4,00	2915	7,28	13,10	0,90	88,1	88,8	88,2	7,5	2,6	3,9	0,01100	29,1	65
	3EL132S2B	5,50	2945	9,90	17,83	0,90	89,2	89,0	88,6	8,9	2,9	3,9	0,02200	44,4	67
	3EL132S2C	7,50	2945	13,20	24,32	0,91	90,1	90,5	89,7	8,4	2,6	4,0	0,02900	51,5	67
	3EG160M2B	11,00	2950	19,70	35,60	0,88	91,2	91,0	90,5	8,0	2,6	3,9	0,05300	113,6	69
	3EG160M2C	15,00	2950	25,90	48,55	0,91	91,9	92,1	91,6	8,9	3,1	4,2	0,06200	131,1	69
	3EG160L2D	18,50	2945	31,70	60,00	0,91	92,4	92,7	92,3	8,9	3,1	4,2	0,07000	135,2	69
3EG180M2B	22,00	2957	38,10	71,05	0,90	92,7	92,9	92,0	8,6	2,6	3,9	0,08200	178,2	70	

ELECTRICAL CHARACTERISTICS 400V 50Hz 1500 rpm

IE3

Voltage (V)	Type	Rated Values								Starting Values		Breakdown Torque	Moment of Inertia	B3 Motor Weight	Sound Pressure Level
		Power	Speed	Current	Torque	Power Factor	Efficiency % $\eta$			Current	Torque				
		kW	rpm	A	Nm	Cos $\phi$	4/4	3/4	1/2	$I_A/I_N$	$M_A/M_N$				
230/400	3EL071M4C	0,25	1435	0,67	1,66	0,71	76,0	75,4	71,5	5,4	2,2	3,0	0,00096	6,8	45
	3EL071M4D	0,37	1435	0,97	2,46	0,70	78,5	78,2	75,0	5,5	2,2	3,1	0,00120	7,5	45
	3EL080M4C	0,55	1450	1,34	3,62	0,73	80,8	80,4	77,0	5,9	2,1	3,1	0,00220	10,5	50
	3EL080M4D	0,75	1450	1,77	4,94	0,74	82,5	82,3	80,0	6,2	2,5	3,4	0,00360	11,6	50
	3EL090S4C	1,10	1450	2,46	7,25	0,76	84,5	84,3	82,0	7,0	2,6	3,6	0,00390	16,3	51
	3EL090L4D	1,50	1450	3,30	9,88	0,77	85,3	85,2	83,0	7,2	2,8	3,8	0,00480	18,0	51
	3EL100L4C	2,20	1450	4,65	14,49	0,79	86,7	87,2	86,0	7,2	2,8	3,6	0,01100	24,4	53
	3EL100L4D	3,00	1450	6,26	19,76	0,79	87,7	88,0	87,0	7,2	2,8	3,6	0,01300	26,7	53
400/690	3EL112M4D	4,00	1460	8,05	26,16	0,81	88,6	88,4	87,5	7,4	2,8	3,8	0,01500	33,9	58
	3EL132S4C	5,50	1460	10,65	36,00	0,83	89,6	90,2	90,0	7,4	2,8	3,4	0,03500	53,4	61
	3EL132M4D	7,50	1465	14,40	48,90	0,83	90,4	90,4	89,4	7,9	3,0	3,8	0,04200	59,5	61
	3EG160M4C	11,00	1470	21,00	71,46	0,83	91,4	91,7	91,0	7,6	2,8	3,3	0,08500	127,4	63
	3EG160L4D	15,00	1470	28,70	97,45	0,82	92,1	92,4	91,9	7,8	2,8	3,6	0,09500	136,4	63
	3EG180M4C	18,50	1475	35,00	119,80	0,82	92,6	93,2	92,9	7,7	3,0	3,3	0,14000	173,2	64
3EG180L4D	22,00	1470	41,40	142,92	0,82	93,0	93,7	93,7	8,0	3,0	3,4	0,16000	186,8	64	

# PERFORMANCE AND DIMENSIONS

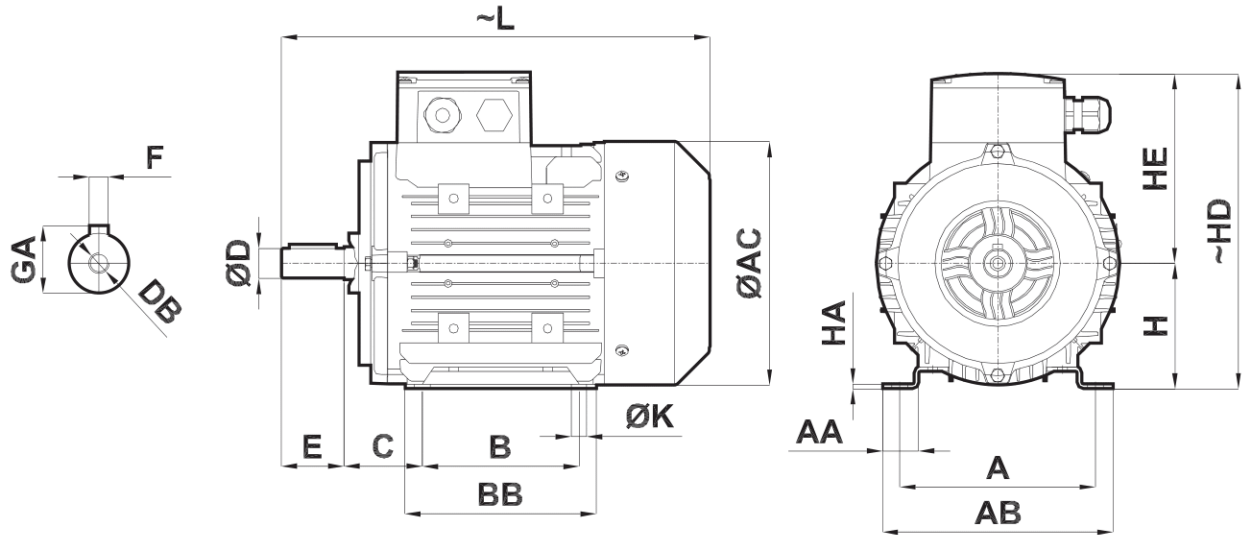
ELECTRICAL CHARACTERISTICS 400V 50Hz 1000 rpm

IE3

Voltage (V)	Type	Rated Values								Starting Values		Breakdown Torque	Moment of Inertia	B3 Motor Weight	Sound Pressure Level
		Power	Speed	Current	Torque	Power Factor	Efficiency % $\eta$			Current	Torque				
		kW	rpm	A	Nm	cos $\phi$	4/4	3/4	1/2	I <sub>A</sub> /I <sub>N</sub>	M <sub>A</sub> /M <sub>N</sub>				
230/400	3EL071M6C	0,18	930	0,55	1,85	0,69	68,0	67,4	62,6	3,6	2,0	2,4	0,00092	6,7	41
	3EL071M6D	0,25	930	0,77	2,57	0,67	70,0	69,7	66,0	3,6	2,2	2,5	0,00105	7,5	41
	3EL080M6B	0,37	930	1,03	3,80	0,70	74,0	73,8	70,0	4,4	2,1	2,6	0,00240	9,8	43
	3EL080M6C	0,55	935	1,47	5,62	0,70	77,2	77,3	74,4	4,3	2,2	2,7	0,00270	10,6	43
	3EL090S6B	0,75	945	1,96	7,58	0,70	78,9	79,5	77,6	4,7	2,2	2,7	0,00400	14,6	46
	3EL090L6C	1,10	940	2,75	11,20	0,71	81,0	80,8	79,4	5,0	2,2	2,7	0,00480	17,0	46
	3EL100L6B	1,50	955	3,50	15,00	0,75	82,5	82,7	81,4	5,3	2,1	2,8	0,01400	22,5	50
	3EL112M6B	2,20	965	4,95	21,70	0,76	84,3	84,5	83,5	5,5	2,2	3,0	0,01900	27,2	56
400/690	3EL132S6B	3,00	970	6,55	29,40	0,77	85,6	85,5	84,5	6,2	2,1	3,0	0,03400	46,5	58
	3EL132M6C	4,00	970	8,52	39,40	0,78	86,8	87,0	85,5	6,2	2,2	3,0	0,03900	51,0	58
	3EL132M6D	5,50	970	11,55	54,15	0,78	88,0	88,9	88,5	6,2	2,2	3,0	0,04200	56,0	58
	3EG160M6D	7,50	972	15,55	73,68	0,78	89,1	89,4	88,4	6,3	2,6	3,0	0,10500	134,8	61
	3EG160L6E	11,00	972	22,90	108,07	0,77	90,3	90,9	90,5	6,6	2,9	3,3	0,13000	143,6	62
	3EG180L6E	15,00	975	30,80	146,92	0,77	91,2	91,6	91,0	6,7	2,9	3,1	0,20000	187,2	63

# PERFORMANCE AND DIMENSIONS

## DIMENSIONS B3



Frame Size	D <sup>[1]</sup>	E	L	AC	H <sup>[2]</sup>	HE	HD	F	GA	DB	C	ØK	B	BB	HA	AA	A	AB
071	14	30	241	137	71	112	183	5	16	M5	45	7	90	110	3	19	112	128
080	19	40	274	155	80	121	201	6	21,5	M6	50	10	100	122	3	23	125	147
090S	24	50	325	176	90	133	223	8	27	M8	56	10	100	151	4	27	140	166
090L	24	50	325	176	90	133	223	8	27	M8	56	10	125	151	4	27	140	166
100	28	60	370,5	193	100	147	247	8	31	M10	63	12	140	170	4	31	160	191
112	28	60	391	215	112	158	270	8	31	M10	70	12	140	177	4	36	190	215
132S	38	80	495	257	132	179	311	10	41	M12	89	12	140	212	5	34	216	246
132M	38	80	495	257	132	179	311	10	41	M12	89	12	178	212	5	34	216	246
160M	42	110	605	316	160	224	384	12	45	M16	108	14,5	210	323	15	49,5	254	295
160L	42	110	605	316	160	224	384	12	45	M16	108	14,5	254	323	15	49,5	254	295
180M	48	110	693	354	180	240	420	14	51,5	M16	121	14,5	241	319	15	50	279	324
180L	48	110	693	354	180	240	420	14	51,5	M16	121	14,5	279	319	15	50	279	324

[1] Tolerance "j6" up to 28mm, "k6" over 28mm EN 50347

[2] Tolerance "-0.5mm" EN 50347