



**ATEX**

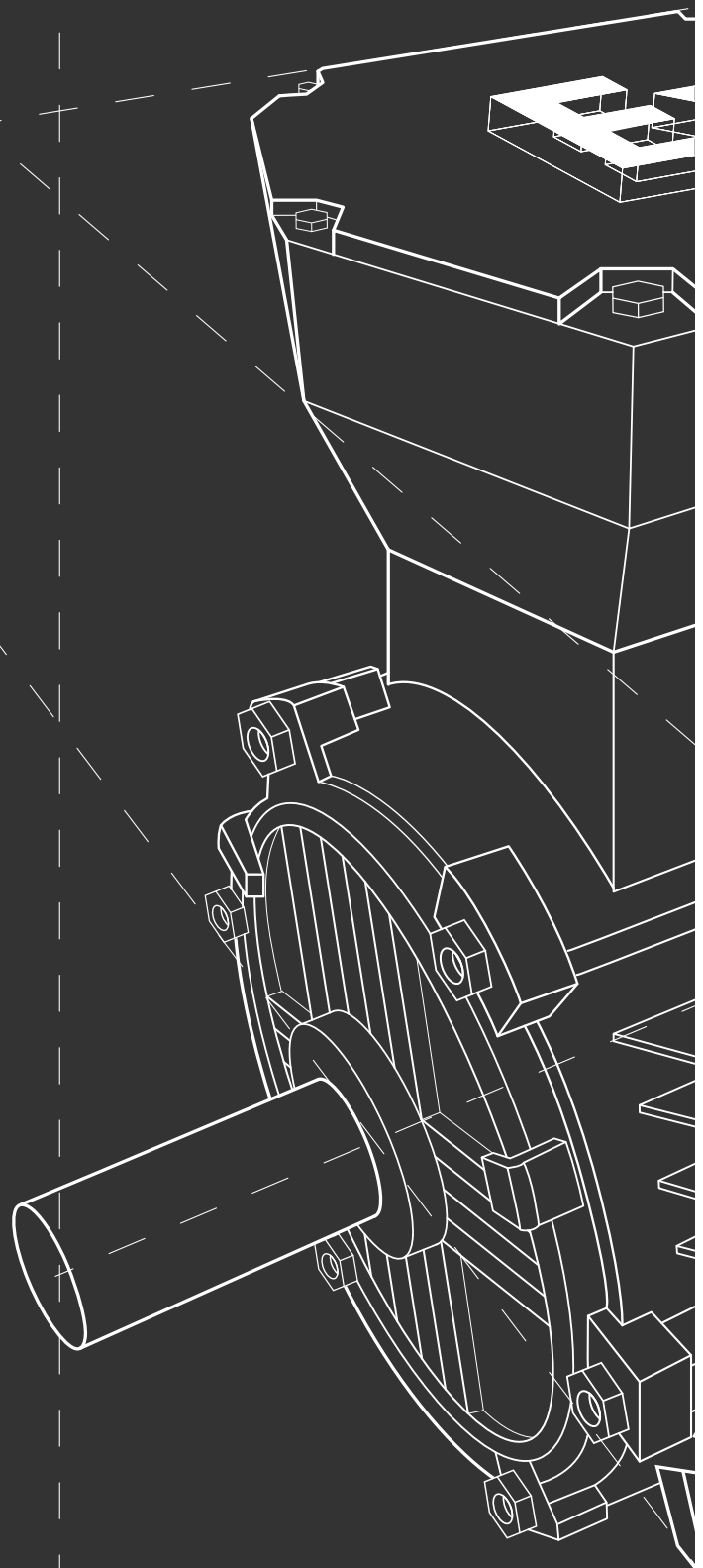
# ***Elektrim*** **MOTORS**

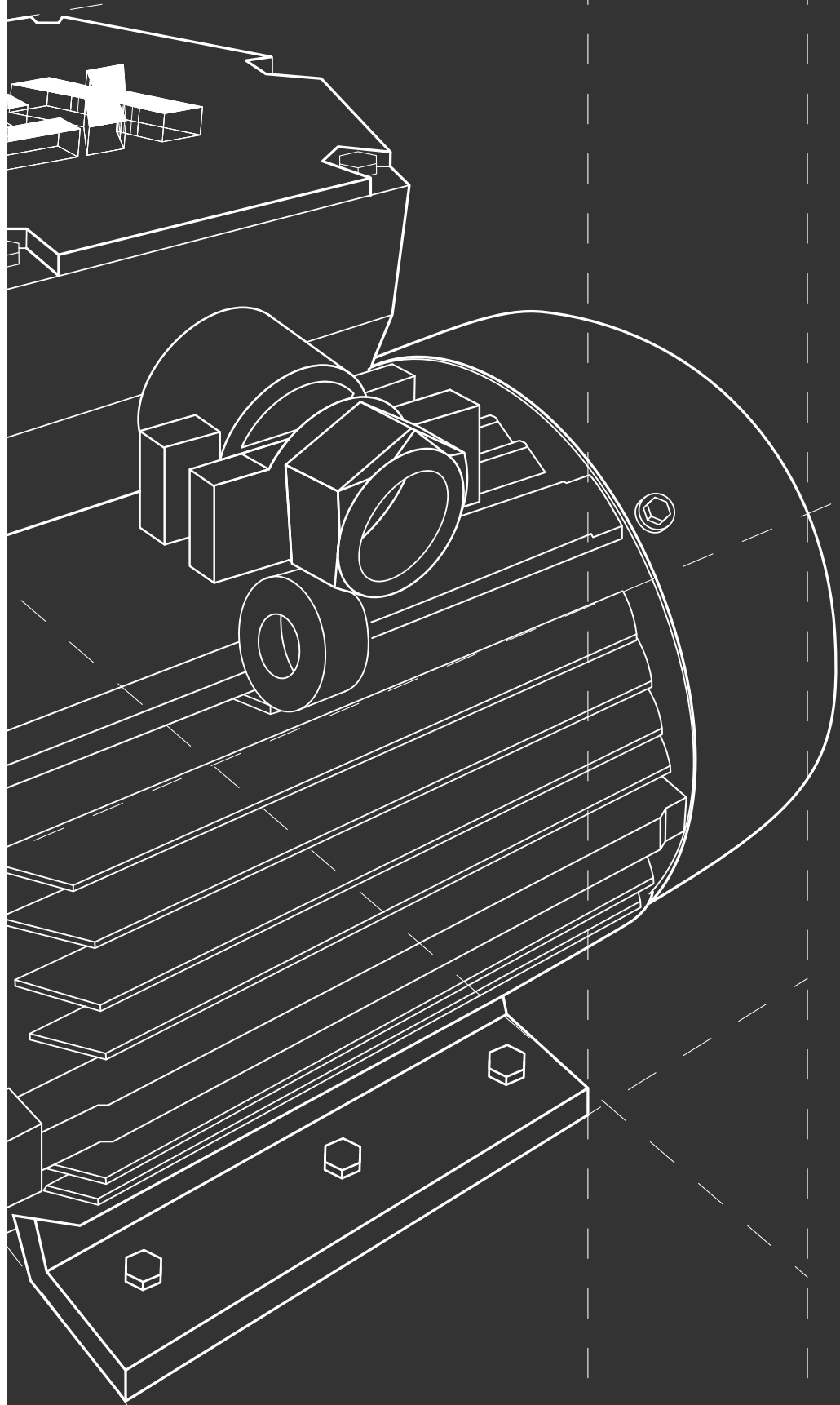
Explosion-proof  
Motors



# *Elektrim* MOTORS

EXPLOSION-PROOF  
MOTORS





PROJECT  
REFERENCE



**SCAN**  
HERE FOR  
DIGITAL  
CONTENT



WEBSITE



## INTRODUCTION

# Elektrim TECHTOP

**Elektrim** aims to provide our customers with the highest quality products on a global scale. Our top priority is to deliver excellent customer service to ensure customers' satisfaction. To achieve this, we have the best after-sales policy in the industry, as well as a team of professional technical personnel and experienced sales representatives.

Established in 1981 as Elektrim Motors & Machinery Pte Ltd, our company has emerged as a prominent powerhouse in South East Asia Pacific over the last four decades. Our motto is to be **The Driving Force Behind Every Machine**. We have built a strong regional presence across more than 11 Asian countries, with branch offices situated in the East and West of Malaysia, in the North and South of Vietnam, and formed partnerships with agents and distributors across the rest of the region. Our customers' needs are always well attended to.

Our brand is the No. 1 specialized brand in supplying electric motors to various industries such as the Palm Oil Industry, Water & Oil Pump, Fire Pump, and Quarry Mining. Our brand is well recognized and trusted in sectors like Rubber Machinery, Industrial Fan, Marine & Offshore Engineering, Agricultural, Buildings, Cement and particularly among OEM production.

Our customizable Explosion Proof motors are engineered to meet the specific needs of industries like mining, cement, sugar, paper and water. With robust designs and flexible configurations, they deliver unmatched efficiency and durability in even the most demanding applications. Empower your operations with motors built to perform.





*Elektrim*  
TECHTOP

SINCE **1983**

40 YEARS



OF EXCELLENCE

# GLOBAL MAP

## SINGAPORE REGIONAL HQ

ELEKTRIM TECHTOP  
MOTORS PTE LTD

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Singapore 629100

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enquiry@emm-motors.com

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MOTORS SDN BHD

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+603 7847 6635

elektrimtehtop@elektrim.com.my

## MYANMAR YANGON

HAN SEIN THANT  
CO., LTD

## PHILIPPINES MANILA

PT CERNA CORPORATION

TRIUMPH MACHINERY  
CORPORATION

## VIETNAM HO CHI MINH

ELEKTRIM MOTORS &  
MACHINERY (VIETNAM)  
PTE LTD

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+84 8 3932 0500

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Ba Trieu Street, Le Dai Hanh Ward, Hai Ba  
Trung District, Ha Noi, Vietnam

+84 24 3200 9080

info@elektrim.com.vn

## HONG KONG HONG KONG

ZENITH INTERNATIONAL  
ENTERPRISE LTD.

## CAMBODIA PHNOM PENH

LPS CAMBODIA CO.

## BANGLADESH SINGAPORE OFFICE

USAFE TRADING PTE LTD

## MALAYSIA SABAH

MILLIVEST SDN BHD  
(EAST MALAYSIA) SDN BHD

## SARAWAK

UNIPAKAR MACHINERY  
SDN BHD

## PENANG

MOTRADE SDN BHD

## INDONESIA SURABAYA

PT INTERJAYA  
SURYAMEGAH

## JAKARTA

PT HARAND GRACIA

## BATAM

PT BIOTANI INDONESIA

## SRI LANKA MOUNT LAVINIA

SM INTERNATIONAL  
PTE., LTD



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## GENERAL INFORMATION

### HAZARDOUS AREAS

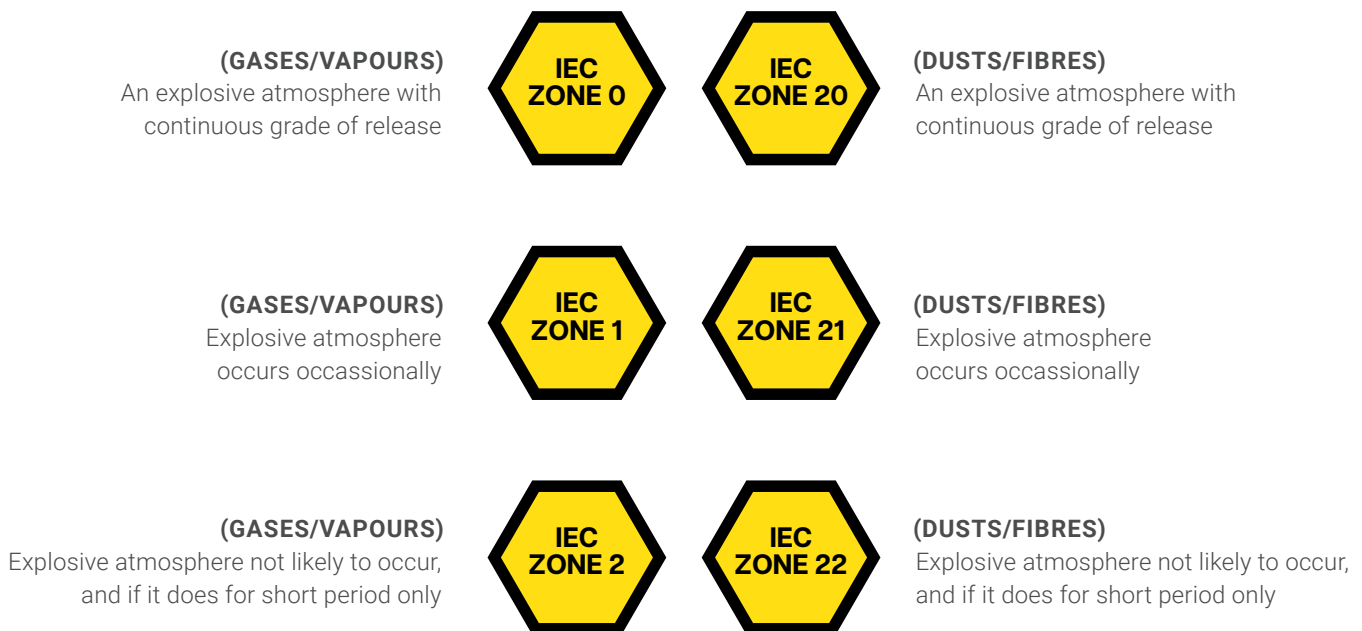
In accordance with IEC 60079-10-1 and 60079-10-2, an explosive atmosphere is characterized by a homogeneous mixture of atmospheric air and flammable constituents, encompassing gases, vapors, dusts, fibers, or flyings, that facilitates self-sustaining combustion upon initiation.

An area is designated as hazardous when there's a risk of an explosive atmosphere forming, necessitating specific safety measures for equipment. These precautions are crucial because explosions can be triggered by flames or excessive heat. Therefore, equipment, such as flameproof motors, are engineered to prevent internal explosions from spreading into the surrounding hazardous environment.

The classification according to International Electrotechnical Commission (IEC) is based on Zones, Groups and Temperature Classes, defined as follows:

### ZONES CLASSIFICATION

Based upon the probability and frequency of occurrence as well as the duration of an explosive atmosphere. Another factor is the type of flammable material (gases/vapours or dusts/fiber):



**ZONE 2/22:** area in which an explosive atmosphere is not likely to occur in normal operation but, if it does occur, will persist for a short period only.

**ZONE 1/21:** area in which an explosive atmosphere is likely to occur in normal operation occasionally.

**ZONE 0/20:** area in which an explosive atmosphere is present continuously or for long periods or frequently.

*(not applicable for electrical equipment)*

## TEMPERATURE CLASS CLASSIFICATION AND SUB-DIVISION (GAS)

Based on the limit of temperature in relation to the ignition temperature of the flammable material present. IEC 60079-0 defines the limits for electrical equipment surface temperature for Groups I, II and III.

### GROUP I - UNDERGROUND COAL MINES (Methane and Coal Dust)

Conditions	Maximum surface temperature (°C)*
Where coal dust is not likely to form a layer	450
Where coal dust can form a layer	150

\*On any surface of the enclosure.

### GROUP III - CONDUCTIVE DUSTS

Conditions	Maximum surface temperature (°C)*
With dust layers	Maximum surface temperature of the apparatus must be determined for a given depth of dust layer
Without dust layers	Maximum surface temperature of the apparatus shall not exceed the assigned value. The standard assigned temperature is T125 °C.

\*On any surface of the enclosure.

### GROUP II - GASES & VAPOURS

Temperature class	Maximum surface temperature (°C)*
IEC	
T1	450
T2	300
T3	200
T4	135
T5	100
T6	85

\*On any surface of the enclosure.

### SUB-DIVISION (GAS)

IIA	~120 gases and vapors, e.g. butane / petroleum / propane
IIB	~30 gases and vapors, e.g. ethylene / dimethyl ether / coke oven gas
IIC	three gases: hydrogen H <sub>2</sub> / acetylene C <sub>2</sub> H <sub>2</sub> / carbon disulfide CS <sub>2</sub>

## TEMPERATURE CLASS CLASSIFICATION AND SUB-DIVISION (DUST)

Combustible dust creates explosion hazards both when airborne and as accumulated layers, impacting industries such as agriculture, chemicals, plastics, and food and beverage. For safe operation in dust-laden explosive atmospheres, it's essential to address the following points when choosing equipment:

For safe operation in dust-laden explosive atmospheres, it's essential to address the following points when choosing equipment:

- Dust Type:**
  - Will the product be exposed to airborne dust clouds, or
  - Will dust accumulate on its surface, and if so, what is the maximum anticipated layer thickness between cleaning intervals?
- Dust Properties:**
  - Is the dust electrically conductive or non-electrically conductive?
- Dust Ignition Temperatures:**
  - Cloud Ignition Temperature (T<sub>cl</sub>): The temperature at which a dust cloud ignites, or
  - Layer Ignition Temperature (T<sub>5mm</sub>): The temperature at which a 5mm dust layer ignites.

### DUST CLASSIFICATION

		T <sub>cl</sub> (cloud) °C	T <sub>5mm</sub> (layer) °C	Surface temperature provided that dust layer below 5mm
Food/Feeder Industry	Wheat	350	270	195
	Barley, Corn	380	280	205
	Sugar	350	430	233
Natural materials	Wood	330	280	205
	Charcoal	520	230	195
	Hard coal	460	240	165
Chemicals	PVC	450	330	255
	Synth. rubber	470	220	145
	Sulfur	240	250	160

Source BIA-report 13/97 HVBG

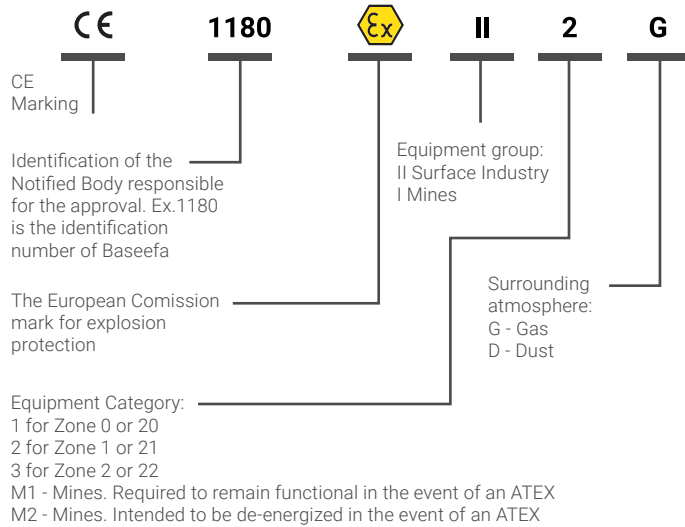
### SUB-DIVISION (DUST)

IIIA	combustible flyings
IIB	non-conductive dust
IIC	conductive dust

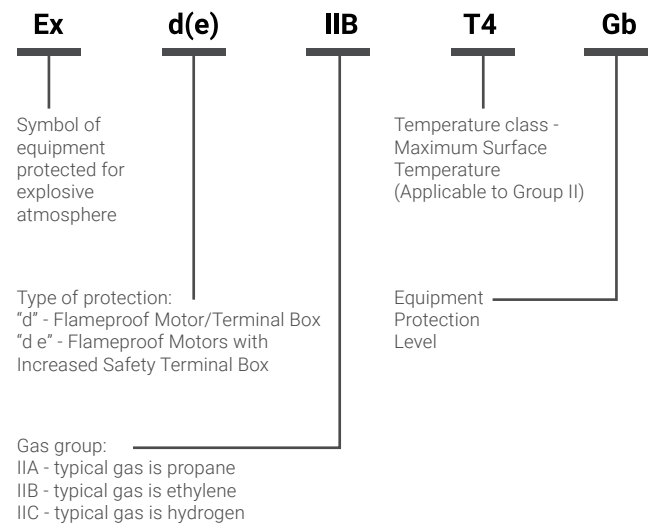
## MARKING

The marking of Equipment meets the ATEX Directives.

### DIRECTIVE 94/9/CE (ONLY ATEX)



### ENI/EC 60079-0 EXPLOSIVE GAS ATMOSPHERE (ATEX)



## VFD APPLICATION

Elektrim motors are also certified for operation with Variable Frequency Drives.

- Thermal protection embedded in motor windings
- Must respect Elektrim derating curves / conditions defined in ATEX certificates

## ENVIRONMENT

The rated outputs provided in the electrical data tables of this catalogue are based on continuous duty, S1, as per IEC 60034-1, and under these conditions:

- Ambient temperature between -20 °C and +40 °C.
- Altitudes up to 1,000 meters above sea level (masl).

If operating conditions deviate from these temperature and altitude ranges, you will need to use the derating factors listed in Table 2 to determine the maximum useful power output.

T (°C)	Altitude (m)								
	1000	1500	2000	2500	3000	3500	4000	4500	5000
10							0,97	0,92	0,88
15						0,98	0,94	0,90	0,86
20					1,00	0,95	0,91	0,87	0,83
25				1,00	0,95	0,93	0,89	0,85	0,81
30			1,00	0,96	0,92	0,90	0,86	0,82	0,78
35		1,00	0,95	0,93	0,90	0,88	0,84	0,80	0,75
40	1,00	0,97	0,94	0,90	0,86	0,82	0,80	0,76	0,71
45	0,95	0,92	0,90	0,88	0,85	0,81	0,78	0,74	0,69
50	0,92	0,90	0,87	0,85	0,82	0,80	0,77	0,72	0,67
55	0,88	0,85	0,83	0,81	0,78	0,76	0,73	0,70	0,65
60	0,83	0,82	0,80	0,77	0,75	0,73	0,70	0,67	0,62
65	0,79	0,76	0,74	0,72	0,70	0,68	0,66	0,62	0,58
70	0,74	0,71	0,69	0,67	0,66	0,64	0,62	0,58	0,53
75	0,70	0,68	0,66	0,64	0,62	0,60	0,58	0,53	0,49
80	0,65	0,64	0,62	0,60	0,58	0,56	0,55	0,48	0,44

## DEGREE OF PROTECTION

The IEC 60034-5 standard defines the degrees of protection for electrical equipment using the IP designation, followed by two numerals. Elektrim explosion proof motors come with protection rating of IP55. Other protection ratings upon request.

First characteristic numeral	
1 <sup>st</sup> charact. numeral	Definition
0	No-protected machine
1	Machine protected against solid objects greater than 50 mm
2	Machine protected against solid objects greater than 12 mm
3	Machine protected against solid objects greater than 2,5 mm
4	Machine protected against solid objects greater than 1,0 mm
5	Dust-protected machine
6	Dust-tight machine



The first numeral in the characteristic code represents the degree of protection against the entry of solid objects and accidental or unintended contact.

Second characteristic numeral	
2 <sup>nd</sup> charact. numeral	Definition
0	No-protected machine
1	Machine protected against dripping water
2	Machine protected against dripping water when tilted up to 15°
3	Water falling as a spray at any angle up to 60° from the vertical
4	Water splashing against the machine from any direction
5	Water protected by nozzle against the enclosure from any direction
6	Water from heavy seas or water projected in powerful jets
7	Machine protected against the effects of immersion
8	Machine protected against the effects of continuous submersion

The second numeral in the characteristic code indicates the level of protection against water ingress into the machine.



## NAMEPLATE

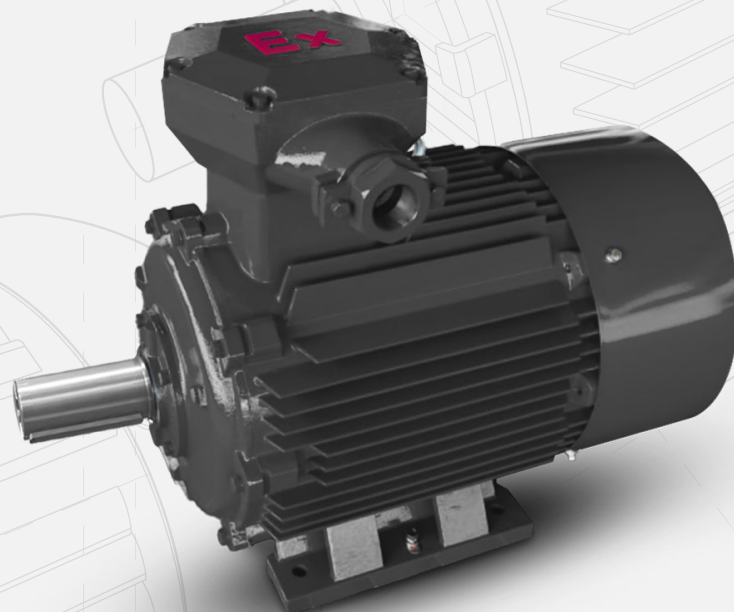
<b>Elektrim MOTORS</b>					
TYPE	EMX3-80M2-4	IE 3	Serial No.	24060000Q	Amb ( -20°C to 40°C )
Ins. cl. F	S1	IP 55	IEC 60079		Weight. 16 KG
Voltage	Hz	KW	RPMA	Eff.	Cos φ
380 - 415 Δ	50	0.75	1420	1.68 - 1.69	.75
660 - 727 Y	50	0.75	1420	1.68 - 1.69	82.5%
Classification	Ex db IIC T6 Gb	DE Bearing	6204ZZC3		
Certificate No.	ECM 25 ATEX-B 0013	NDE Bearing	6204ZZC3		
<b>ELEKTRIM TECHTOP MOTORS PTE LTD</b>					
<b>SINGAPORE</b>					
CE					

# CONSTRUCTION FEATURES

Frame		71	80	90S/L	100L	112M	132S/M	
<b>General features</b>								
Certification		ATEX						
Nameplate marking		Ex db IIC T6 Gb						
Ambient temperature range		-20°C up to +40°C (refer to derating table for other ambient temperatures)						
Temperature class		T6						
<b>Mechanical Features</b>								
Mounting form		All mounting types and orientation						
Frame	Material	Aluminium	Cast iron					
Degree of protection		IP55 / 56 / 65 / 66						
Grounding		Double grounding - one inside the terminal box and one on the frame						
Cooling method		Totally enclosed fan cooled - IC411						
Fan	Material	Plastic						
Fan cover	Material	Sheet steel						
End shields	Material	Cast iron						
Bearings	Drive end side	2p	6202-ZZ	6204-ZZ	6205-ZZ	6206-ZZ	6206-ZZ	6208-ZZ
		4 - 12p						
	Non drive end side	2p						
		4 - 12p						
Lubrication	Type of grease	Lithium Base						
	Grease fitting	Without grease fitting						
Terminal block		6 terminals						
Terminal block	Material	Aluminium	Cast iron					
Cable entries	Main	Size	M25 x 1.5	M32 x 1.5	M32 x 1.5	M32 x 1.5	M32 x 1.5	M32 x 1.5
	Threaded plug		Plastic					
	Accessory	Size	M20 x 1.5 lateral holes					
Shaft	Key type		A					
	Direction of rotation		Bidirectional					
Vibration level		Grade A						
Nameplate	Material	Stainless Steel						
Painting	Colour	RAL5010						
<b>Electrical features</b>								
Winding	Impregnation		Dip and bake					
	Insulation class		F (rise 80K)					
Service factor		1.00						
Rotor		Aluminium die cast						
Thermal protection		Thermistor PTC, 1 per phase, for tripping at 150°C (Optional)						
Space Heater	Voltage	220 - 240 V						
	Output	10W	20W	30W	40W			

**Please Note:** The technical information contained within this document reflects current engineering design and is subject to modification without prior notification.

For the most precise and current technical specifications, kindly consult your sales representative.

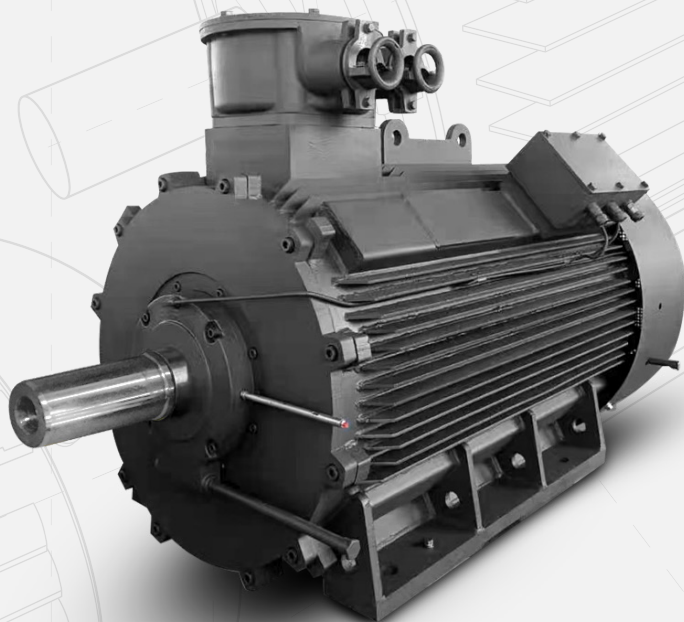


# CONSTRUCTION FEATURES

Frame		160M/L	180M/L	200L	225S/M	250M	280S/M	315S/M	315L	355M/L	
<b>General features</b>											
Certification		ATEX									
Nameplate marking		Ex db IIC T6 Gb									
Ambient temperature range		-20°C up to +40°C (refer to derating table for other ambient temperatures)									
Temperature class		T6									
<b>Mechanical Features</b>											
Mounting form		All mounting types and orientation									
Frame	Material	Cast Iron									
Degree of protection		IP55 / 56 / 65 / 66									
Grounding		Double grounding - one inside the terminal box and one on the frame									
Cooling method		Totally enclosed fan cooled - IC411									
Fan	Material	Plastic									
Fan cover	Material	Sheet steel									
End shields	Material	Cast iron									
Bearings	Drive end side	2p	6309-C3	6311-C3	6312-C3	6312-C3	6313-C3	6314-C3	6317-C3	6317-C3	6319-C3
		4 - 12p				6313-C3	6314-C3	6317-C3	6319-C3	6319-C3	6322-C3
	Non drive end side	2p	6209-C3	6211-C3	6212-C3	6312-C3	6313-C3	6314-C3	6317-C3	6317-C3	6319-C3
		4 - 12p				6312-C3	6313-C3	6314-C3	6319-C3	6319-C3	6322-C3
Lubrication	Type of grease	Lithium Base									
	Grease fitting	Without grease fitting									
Terminal block		6 terminals									
Terminal block	Material	Cast iron									
Cable entries	Main	Size	M40 x 1.5	M40 x 1.5	M50 x 1.5	M50 x 1.5	M63 x 1.5	M63 x 1.5	2 x M63 x 1.5	2 x M63 x 1.5	2 x M63 x 1.5
	Threaded plug		Plastic								
	Accessory	Size	M20 x 1.5 lateral holes								
Shaft	Key type		A								
	Direction of rotation		Bidirectional								
Vibration level		Grade A									
Nameplate	Material	Stainless Steel									
Painting	Colour	RAL5010									
<b>Electrical features</b>											
Winding	Impregnation		Dip and bake								
	Insulation class		F (rise 80K)								
Service factor		1.00									
Rotor		Aluminium die cast									
Thermal protection		Thermistor PTC, 1 per phase, for tripping at 150°C (Optional)									
Space Heater	Voltage		220 - 240 V								
	Output		40W	50W	60W	80W	110W				

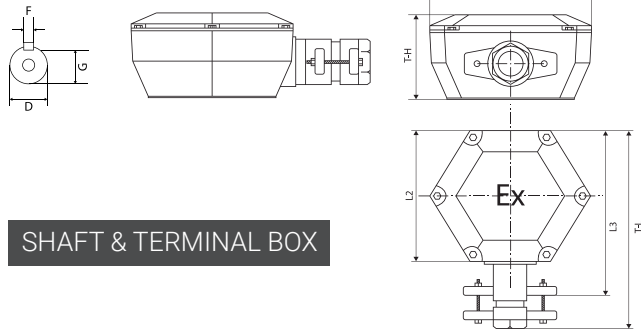
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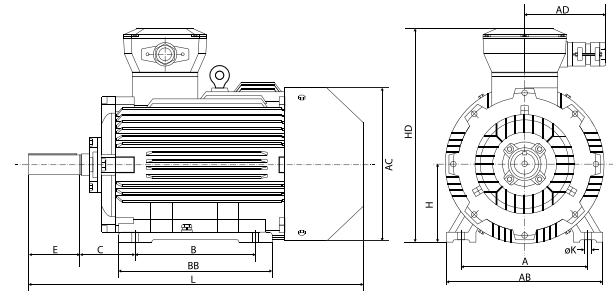


# DIMENSIONAL DRAWING

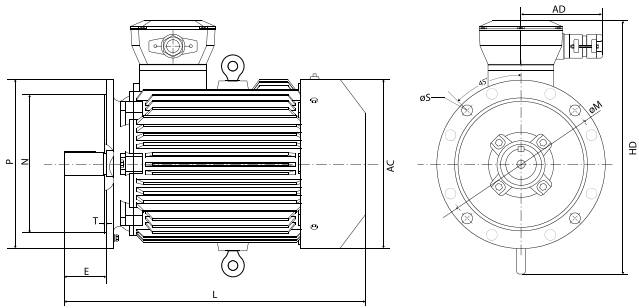
## EMX IE1 - IE3



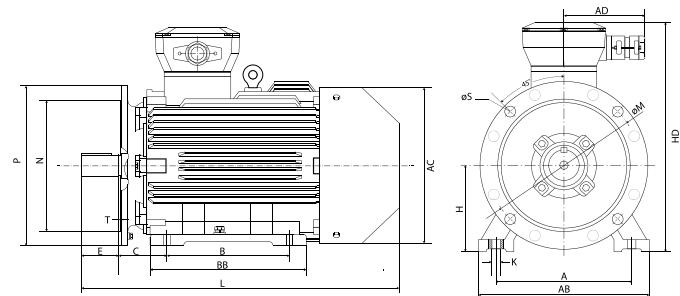
SHAFT & TERMINAL BOX



EMX B3 MOUNTING



EMX B5 MOUNTING



EMX B35 MOUNTING

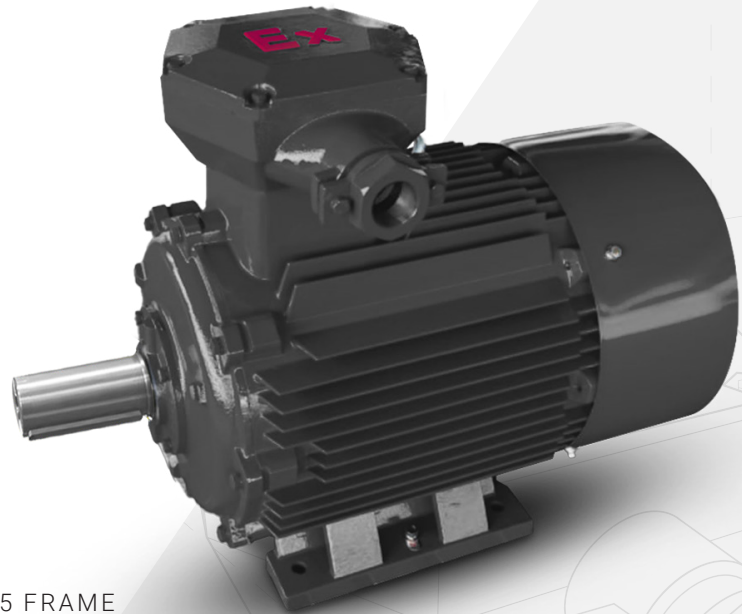
Frame Size	Pole	Mounting dimension (mm)											Over all dimensions (mm)										T-Box dimension (mm)						
		A	B	C	H	K	M	N	P	S	T	No. of flange holes	D	E	F	G	AB	AC	AD	BB	HD	L	L1	L2	L3	T-H	T-L	No. of Cable Entry	
		Single	Double																										
80M	2,4,6,8	125	100	50	80	10	165	130	200	12	3.5	4	19	40	6	15.5	165	165	180	130	320	330	151	175	184	74	170	M32*1.5	Optional
90S	2,4,6,8	140	100	56	90	12	165	130	200	12	3.5	4	24	50	8	20	180	180	180	135	350	370	151	175	184	74	170	M32*1.5	Optional
90L	2,4,6,8	140	125	56	90	12	165	130	200	12	3.5	4	24	50	8	20	180	180	160	350	395	395	151	175	184	74	170	M32*1.5	Optional
100L	2,4,6,8	160	140	63	100	12	215	180	250	15	4	4	28	60	8	24	200	205	180	180	360	450	151	175	184	74	170	M32*1.5	Optional
112M	2,4,6,8	190	140	70	112	12	215	180	250	15	4	4	28	60	8	24	245	230	200	180	380	500	180	208	218	84	258	M32*1.5	Optional
132S	2,4,6,8	216	140	89	132	15	265	230	300	15	4	4	38	80	10	33	280	270	200	190	430	550	180	208	218	84	258	M32*1.5	Optional
132M	2,4,6,8	216	178	89	132	15	265	230	300	15	4	4	38	80	10	33	280	270	200	230	430	600	180	208	218	84	258	M32*1.5	Optional
160M	2,4,6,8	254	210	108	160	15	300	250	350	19	5	4	42	110	12	37	330	325	220	260	500	720	210	243	287	95	335	M40*1.5	Optional
160L	2,4,6,8	254	254	108	160	15	300	250	350	19	5	4	42	110	12	37	330	325	220	310	500	750	210	243	287	95	335	M40*1.5	Optional
180M	2,4,6,8	279	241	121	180	19	300	250	350	19	5	4	48	110	14	42.5	355	360	220	241	550	770	210	243	287	95	335	M40*1.5	Optional
180L	2,4,6,8	279	279	121	180	19	300	250	350	19	5	4	48	110	14	42.5	355	360	220	279	550	790	210	243	287	95	335	M40*1.5	Optional
200L	2,4,6,8	318	305	133	200	19	350	300	400	19	5	4	55	110	16	49	390	400	250	370	645	840	262	304	341	105	386	M50*1.5	Optional
225S	4,8	356	286	149	225	19	400	350	450	19	5	8	60	140	18	53	435	400	250	355	690	890	262	304	341	105	386	M50*1.5	Optional
225M	2	356	311	149	225	19	400	350	450	19	5	8	55	110	16	49	435	400	250	380	690	890	262	304	341	105	386	M50*1.5	Optional
	4,6,8	356	311	149	225	19	400	350	450	19	5	8	60	140	18	53	435	400	250	380	690	920	262	304	341	105	386	M50*1.5	Optional
250M	2	406	349	168	250	24	500	450	550	19	5	8	60	140	18	53	486	500	300	420	730	965	325	371	442	120	487	M63*1.5	Optional
	4,6,8	406	349	168	250	24	500	450	550	19	5	8	65	140	18	58	490	500	300	420	730	965	325	371	442	120	487	M63*1.5	Optional
280S	2	457	368	190	280	24	500	450	550	19	5	8	65	140	18	58	545	565	300	445	810	1010	325	371	442	120	487	M63*1.5	Optional
	4,6,8	457	368	190	280	24	500	450	550	19	5	8	75	140	20	67.5	545	565	300	445	810	1010	325	371	442	120	487	M63*1.5	Optional
280M	2	457	419	190	280	24	500	450	550	19	5	8	65	140	18	58	545	565	300	500	810	1080	325	371	442	120	487	M63*1.5	Optional
	4,6,8	457	419	190	280	24	500	450	550	19	5	8	75	140	20	67.5	545	565	300	500	810	1080	325	371	442	120	487	M63*1.5	Optional
315S	2	508	406	216	315	28	600	550	660	24	6	8	65	140	18	58	640	630	360	550	1020	1185	370	370	-	170	425	2*M63*1.5	
	4,6,8,10	508	406	216	315	28	600	550	660	24	6	8	80	170	22	71	640	630	360	550	1020	1260	370	370	-	170	425	2*M63*1.5	
315M	2	508	457	216	315	28	600	550	660	24	6	8	65	140	18	58	640	630	360	680	1020	1305	370	370	-	170	425	2*M63*1.5	
	4,6,8,10	508	457	216	315	28	600	550	660	24	6	8	80	170	22	71	640	630	360	680	1020	1380	370	370	-	170	425	2*M63*1.5	
315L	2	508	508	216	315	28	600	550	660	24	6	8	65	140	18	58	640	630	360	680	1020	1305	370	370	-	170	425	2*M63*1.5	
	4,6,8,10	508	508	216	315	28	600	550	660	24	6	8	80	170	22	71	640	630	360	680	1020	1380	370	370	-	170	425	2*M63*1.5	
355S	2	610	500	254	355	28	740	680	800	24	6	8	75	140	20	67.5	740	750	360	640	1080	1415	370	370	-	170	425	2*M63*1.5	
	4,6,8,10	610	500	254	355	28	740	680	800	24	6	8	95	170	25	86	740	750	360	640	1080	1485	370	370	-	170	425	2*M63*1.5	
355M	2	610	560	254	355	28	740	680	800	24	6	8	75	140	20	67.5	740	750	360	700	1080	1495	370	370	-	170	425	2*M63*1.5	
	4,6,8,10	610	560	254	355	28	740	680	800	24	6	8	95	170	25	86	740	750	360	700	1080	1565	370	370	-	170	425	2*M63*1.5	
355L	2	610	630	254	355	28	740	680	800	24	6	8	75	140	20	67.5	740	750	360	700	1080	1645	370	370	-	170	425	2*M63*1.5	
	4,6,8	610	630	254	355	28	740	680	800	24	6	8	95	170	25	86	740	750	360	700	1080	1675	370	370	-	170	425	2*M63*1.5	

Please Note: The technical information contained within this document reflects current engineering design and is subject to modification without prior notification. For the most precise and current technical specifications, kindly consult your sales representative.

# EMX SERIES

**ATEX CERTIFIED EXPLOSION PROOF MOTORS FOR ZONE 1 AND 2**

**Elektrim's** Zone 1 Ex db explosion-proof motors offer the highest protection for hazardous locations. Engineered with superior durability and an outstanding design, they conquer the most demanding applications in environments with potentially explosive atmospheres. These robust motors ensure unwavering safety and reliable performance, built to withstand extreme conditions while delivering exceptional power and extended operational lifespan.



## MODEL DATA

### FEATURES

- CERTIFIED FOR II G EX DB IIC T6
- UP TO 315KW
- UP TO 355 FRAME
- UP TO 8P DESIGN
- CUSTOMIZABLE



### ECM 25 ATEX-B 0013 CERTIFICATE

This certification provides comprehensive protection for a wide spectrum of hazardous areas, covering the most stringent zone 1 II 2G Ex db IIC T6 and zone 21 III 3D IIC T85°C IP66 requirements, which also includes zone 2 / 21 and the common IIB T4 / IIC T3, IIB 125°C / IIC 100°C classifications. This versatility ensures suitability for diverse applications, from areas with a high probability of explosive gas atmospheres to those with less frequent occurrences, while also accommodating various gas groups and temperature ratings, including the most demanding IIC and T6 standards.

## EMX - IE 1 - 2 POLE

Frame	Rated Output		Speed (r/min)	Full Load Current 380V (AMP)	Full Load Current 400V (AMP)	Full Load Current 415V (AMP)	Efficiency (%)	Power Factor (cosφ)	Rated Torque (Nm)	Locked Rotor Torque T <sub>ST</sub> /T <sub>FL</sub>	Maximum Torque T <sub>max</sub> /T <sub>FL</sub>	Locked Rotor Current I <sub>ST</sub> /I <sub>FL</sub>	Moment of Inertia (kgm <sup>2</sup> )	Noise Level dB (A)	Weight (kg)
	kW	HP													
EMX-80A-2	0.75	1	2830	1.90	1.81	1.74	72.1	0.83	2.50	2.2	2.3	6.1	0.001	62	22
EMX-80B-2	1.1	1.5	2830	2.65	2.52	2.43	75.0	0.84	3.70	2.2	2.3	6.9	0.002	62	23
EMX-90S-2	1.5	2	2840	3.51	3.34	3.22	77.2	0.84	5.00	2.2	2.3	7.0	0.002	67	43
EMX-90L-2	2.2	3	2840	4.93	4.69	4.52	79.7	0.85	7.40	2.2	2.3	7.0	0.003	67	44
EMX-100L-2	3	4	2870	6.43	6.11	5.89	81.5	0.87	10.0	2.2	2.3	7.5	0.005	74	50
EMX-112M-2	4	5.5	2890	8.31	7.90	7.61	83.1	0.88	13.3	2.2	2.3	7.5	0.008	77	66
EMX-132SA-2	5.5	7.5	2900	11.2	10.7	10.3	84.7	0.88	18.1	2.2	2.3	7.5	0.014	79	89
EMX-132SB-2	7.5	10	2900	15.1	14.3	13.8	86.0	0.88	24.5	2.2	2.3	7.5	0.018	79	96
EMX-160MA-2	11	15	2930	21.4	20.4	19.6	87.6	0.89	35.8	2.2	2.3	7.5	0.051	81	153
EMX-160MB-2	15	20	2930	28.9	27.4	26.4	88.7	0.89	48.8	2.2	2.3	7.5	0.064	81	160
EMX-160L-2	18.5	25	2930	35.0	33.2	32.0	89.3	0.90	60.4	2.2	2.3	7.5	0.076	81	171
EMX-180M-2	22	30	2940	41.3	39.2	37.8	89.9	0.90	71.4	2.0	2.3	7.5	0.105	83	221
EMX-200LA-2	30	40	2950	55.8	53.0	51.1	90.7	0.90	97.2	2.0	2.3	7.5	0.179	84	279
EMX-200LB-2	37	50	2950	68.5	65.1	62.7	91.2	0.90	120	2.0	2.3	7.5	0.201	84	301
EMX-225M-2	45	60	2970	82.8	78.7	75.9	91.7	0.90	145	2.0	2.3	7.5	0.305	86	464
EMX-250M-2	55	75	2970	101	95.8	92.3	92.1	0.90	177	2.0	2.3	7.5	0.414	89	559
EMX-280S-2	75	100	2970	137	130	125	92.7	0.90	241	2.0	2.3	7.0	0.695	91	813
EMX-280M-2	90	125	2970	162	154	148	93.0	0.91	290	2.0	2.3	7.1	0.852	91	841
EMX-315S-2	110	150	2980	197	187	180	93.3	0.91	353	1.8	2.2	7.1	1.753	92	1076
EMX-315M-2	132	180	2980	236	224	216	93.5	0.91	423	1.8	2.2	7.1	1.874	92	1142
EMX-315LA-2	160	220	2980	285	271	261	93.8	0.91	513	1.8	2.2	7.1	2.296	92	1208
EMX-315L-2	185	250	2980	326	310	301	94.0	0.91	593	1.8	2.2	7.1	2.38	92	1257
EMX-315LB-2	200	270	2980	351	334	322	94.0	0.92	641	1.8	2.2	7.1	3.2	92	1347
EMX-355MA-2	220	300	2980	391	367	358	94.0	0.92	641	1.8	2.2	7.1	2.478	100	1408
EMX-355MB-2	250	340	2980	439	417	402	94.0	0.92	802	1.6	2.2	7.1	3.14	100	1500
EMX-355LA-2	280	375	2980	497	468	455	94.0	0.92	897	1.6	2.2	7.1	4.4	100	1653
EMX-355L-2	315	430	2980	553	526	507	94.0	0.92	1010	1.6	2.2	7.1	3.85	100	2154

## EMX - IE 1 - 4 POLE

Frame	Rated Output		Speed (r/min)	Full Load Current 380V (AMP)	Full Load Current 400V (AMP)	Full Load Current 415V (AMP)	Efficiency (%)	Power Factor (cosφ)	Rated Torque (Nm)	Locked Rotor Torque T <sub>ST</sub> /T <sub>FL</sub>	Maximum Torque T <sub>max</sub> /T <sub>FL</sub>	Locked Rotor Current I <sub>ST</sub> /I <sub>FL</sub>	Moment of Inertia (kgm <sup>2</sup> )	Noise Level dB (A)	Weight (kg)
	kW	HP													
EMX-80B-4	0.75	1	1390	2.08	1.98	1.90	72.1	0.76	5.20	2.3	2.3	6.0	0.001	56	23
EMX-90S-4	1.1	1.5	1400	2.89	2.75	2.65	75.0	0.77	7.50	2.3	2.3	6.0	0.003	59	45
EMX-90L-4	1.5	2	1400	3.78	3.60	3.47	77.2	0.78	10.2	2.3	2.3	6.0	0.004	59	44
EMX-100LA-4	2.2	3	1430	5.18	4.92	4.74	79.7	0.81	14.8	2.3	2.3	7.0	0.006	64	53
EMX-100LB-4	3	4	1430	6.82	6.48	6.25	81.5	0.82	20.2	2.3	2.3	7.0	0.01	64	52
EMX-112M-4	4	5.5	1440	8.92	8.47	8.17	83.1	0.82	26.5	2.3	2.3	7.0	0.013	65	66
EMX-132S-4	5.5	7.5	1440	11.9	11.3	10.9	84.7	0.83	36.5	2.3	2.3	7.0	0.019	71	95
EMX-132M-4	7.5	10	1440	15.8	15.0	14.4	86.0	0.84	49.8	2.3	2.3	7.0	0.036	71	96
EMX-160M-4	11	15	1460	22.7	21.6	20.8	87.6	0.84	72.0	2.2	2.3	7.0	0.047	73	164
EMX-160L-4	15	20	1460	30.2	28.7	27.7	88.7	0.85	98.2	2.2	2.3	7.5	0.103	73	183
EMX-180M-4	18.5	25	1470	36.6	34.8	33.5	89.3	0.86	120	2.2	2.3	7.5	0.131	76	226
EMX-180L-4	22	30	1470	43.2	41.1	39.6	89.9	0.86	143	2.2	2.3	7.5	0.183	76	244
EMX-200L-4	30	40	1470	58.4	55.5	53.5	90.7	0.86	195	2.2	2.3	7.2	0.219	76	295
EMX-225S-4	37	50	1480	70.9	67.3	64.9	91.2	0.87	239	2.2	2.3	7.2	0.297	78	456
EMX-225M-4	45	60	1480	85.7	81.4	78.5	91.7	0.87	291	2.2	2.3	7.2	0.578	78	479
EMX-250M-4	55	75	1480	104	99.1	95.5	92.1	0.87	355	2.2	2.3	7.2	0.659	79	576
EMX-280S-4	75	100	1480	140	133	128	92.7	0.88	484	2.2	2.3	6.8	0.818	80	841
EMX-280M-4	90	125	1480	167	159	153	93.0	0.88	581	2.2	2.3	6.8	1.574	80	870
EMX-315S-4	110	150	1480	204	193	186	93.3	0.88	710	2.1	2.2	6.9	1.964	88	1092
EMX-315M-4	132	180	1490	244	232	223	93.5	0.88	852	2.1	2.2	6.9	3.527	88	1175
EMX-315LA-4	160	220	1490	291	277	267	93.8	0.89	1032	2.1	2.2	6.9	4.087	88	1241
EMX-315L-4	185	250	1485	322	313	304	94.0	0.90	1190	2.1	2.2	6.9	4.927	88	1307
EMX-315LB-4	200	270	1490	359	345	329	94.0	0.90	1290	2.1	2.2	6.9	5.374	88	1408
EMX-355MA-4	220	300	1485	395	375	362	94.0	0.90	1411	2.1	2.2	6.9	7.6	95	1469
EMX-355MB-4	250	340	1485	449	427	411	94.0	0.90	1603	2.1	2.2	6.9	8.4	95	1546
EMX-355LA-4	280	375	1485	503	478	460	94.0	0.90	1796	2.1	2.2	7.1	9.2	95	1653
EMX-355L-4	315	430	1485	566	537	518	94.0	0.90	2020	2.1	2.2	7.1	9.9	95	2113

## EMX - IE 1 - 6 POLE

Frame	Rated Output		Speed (r/min)	Full Load Current 380V (AMP)	Full Load Current 400V (AMP)	Full Load Current 415V (AMP)	Efficiency (%)	Power Factor (cosφ)	Rated Torque (Nm)	Locked Rotor Torque T <sub>ST</sub> /T <sub>FL</sub>	Maximum Torque T <sub>max</sub> /T <sub>FL</sub>	Locked Rotor Current I <sub>ST</sub> /I <sub>FL</sub>	Moment of Inertia (kgm <sup>2</sup> )	Noise Level dB (A)	Weight (kg)
	kW	HP													
EMX-90S-6	0.75	1	910	2.26	2.15	2.07	70.0	0.72	7.90	2.0	2.1	4.7	0.005	57	44
EMX-90L-6	1.1	1.5	910	3.14	2.98	2.88	72.9	0.73	11.5	2.0	2.1	5.3	0.008	57	45
EMX-100L-6	1.5	2	940	4.04	3.84	3.70	75.2	0.75	15.6	2.0	2.1	5.5	0.013	61	48
EMX-112M-6	2.2	3	940	5.66	5.38	5.18	77.7	0.76	22.4	2.0	2.1	5.5	0.02	65	69
EMX-132S-6	3	4	960	7.53	7.15	6.89	79.7	0.76	29.9	2.1	2.1	6.5	0.038	69	85
EMX-132MA-6	4	5.5	960	9.82	9.33	9.00	81.4	0.76	39.8	2.1	2.1	6.5	0.05	69	91
EMX-132MB-6	5.5	7.5	960	13.1	12.4	12.0	83.1	0.77	54.7	2.1	2.1	6.5	0.066	69	101
EMX-160M-6	7.5	10	970	17.2	16.6	15.8	84.7	0.78	73.9	2.0	2.1	6.5	0.121	73	160
EMX-160L-6	11	15	970	24.8	23.6	22.7	86.4	0.78	108	2.0	2.1	6.5	0.161	73	179
EMX-180L-6	15	20	970	32.1	30.5	29.4	87.7	0.81	148	2.0	2.1	7.0	0.264	73	226
EMX-200LA-6	18.5	25	970	39.2	37.2	35.9	88.6	0.81	182	2.1	2.1	7.0	0.407	73	284
EMX-200LB-6	22	30	970	45.1	42.9	41.3	89.2	0.83	217	2.0	2.1	7.0	0.459	73	301
EMX-225M-6	30	40	980	60	57.2	55.1	90.2	0.84	293	2.0	2.1	7.0	0.648	74	479
EMX-250M-6	37	50	980	72.0	68.4	65.9	90.8	0.86	361	2.1	2.1	7.0	0.979	76	576
EMX-280S-6	45	60	980	87.0	82.6	79.6	91.4	0.86	439	2.1	2.0	7.0	1.79	78	798
EMX-280M-6	55	75	980	106	100	96.8	91.9	0.86	536	2.1	2.0	7.0	2.164	78	841
EMX-315S-6	75	100	990	143	136	131	92.6	0.86	724	2.0	2.0	6.7	4.279	83	1059
EMX-315M-6	90	125	990	171	163	157	92.9	0.86	869	2.0	2.0	6.7	5.017	83	1125
EMX-315LA-6	110	150	990	208	198	191	93.3	0.86	1062	2.0	2.0	6.7	5.607	83	1208
EMX-315LB-6	132	180	990	247	234	226	93.5	0.87	1274	2.0	2.0	6.7	6.64	83	1290
EMX-355MA-6	160	220	990	295	280	270	93.8	0.88	1544	1.9	2.0	6.7	9.6	85	1439
EMX-355M-6	185	250	990	340	328	311	94.0	0.88	1785	2.0	2.2	6.8	10.5	85	1546
EMX-355MB-6	200	270	990	367	349	336	94.0	0.88	1930	1.9	2.0	6.7	11.9	85	1653
EMX-355LA-6	220	300	990	404	389	370	94.0	0.88	2122	2.0	2.2	6.8	12.9	85	1730
EMX-355LB-6	250	340	990	459	436	420	94.0	0.88	2413	1.9	2.0	6.7	13.4	85	2318
EMX-355LC-6	280	375	990	514	495	471	94.0	0.88	2701	2.0	2.2	6.8	13.9	85	2317
EMX-355LD-6	315	430	990	579	557	530	94.0	0.88	3039	2.0	2.2	6.8	14.3	85	2359

## EMX - IE 1 - 8 POLE

Frame	Rated Output		Speed (r/min)	Full Load Current 380V (AMP)	Full Load Current 400V (AMP)	Full Load Current 415V (AMP)	Efficiency (%)	Power Factor (cosφ)	Rated Torque (Nm)	Locked Rotor Torque T <sub>ST</sub> /T <sub>FL</sub>	Maximum Torque T <sub>max</sub> /T <sub>FL</sub>	Locked Rotor Current I <sub>ST</sub> /I <sub>FL</sub>	Moment of Inertia (kgm <sup>2</sup> )	Noise Level dB (A)	Weight (kg)
	kW	HP													
EMX-100LA-8	0.75	1	720	2.78	2.64	2.54	61.2	0.67	10.4	1.8	2.0	4.0	0.008	59	48
EMX-100LB-8	1.1	1.5	730	3.64	3.46	3.34	66.5	0.69	15.2	1.8	2.0	5.0	0.01	59	50
EMX-112M-8	1.5	2	730	4.64	4.41	4.25	70.2	0.70	20.8	1.8	2.0	5.0	0.017	61	64
EMX-132S-8	2.2	3	730	6.34	6.03	5.81	74.2	0.71	29.6	1.8	2.0	6.0	0.031	64	91
EMX-132M-8	3	4	730	8.11	7.70	7.43	77.0	0.73	40.4	1.8	2.0	6.0	0.04	64	99
EMX-160MA-8	4	5.5	740	10.5	9.99	9.63	79.2	0.73	53.1	1.9	2.0	6.0	0.075	68	153
EMX-160MB-8	5.5	7.5	740	13.9	13.2	12.7	81.4	0.74	73.0	1.9	2.0	6.0	0.093	68	168
EMX-160L-8	7.5	10	740	18.3	17.4	16.7	83.1	0.75	99.5	1.9	2.0	6.0	0.126	68	183
EMX-180L-8	11	15	740	26.2	24.9	24.0	85.0	0.75	144	2.0	2.0	6.5	0.203	70	221
EMX-200L-8	15	20	740	34.8	33.0	31.9	86.2	0.76	196	2.0	2.0	6.6	0.339	73	306
EMX-225S-8	18.5	25	740	42.6	40.4	39.0	86.9	0.76	242	1.9	2.0	6.6	0.491	73	456
EMX-225M-8	22	30	740	49.0	46.6	44.9	87.4	0.78	284	1.9	2.0	6.6	0.547	73	479
EMX-250M-8	30	40	740	65.3	62.1	59.8	88.3	0.79	387	1.9	2.0	6.5	0.83	75	568
EMX-280S-8	37	50	740	80.1	76.1	73.4	88.8	0.79	478	1.9	2.0	6.6	1.39	76	827
EMX-280M-8	45	60	740	97.0	92.2	88.8	89.2	0.79	581	1.9	2.0	6.6	1.65	76	883
EMX-315S-8	55	75	740	115	109	105	89.7	0.81	710	1.8	2.0	6.6	4.79	82	1076
EMX-315M-8	75	100	740	156	148	143	90.3	0.81	968	1.8	2.0	6.2	5.58	82	1191
EMX-315LA-8	90	125	740	184	175	168	90.7	0.82	1162	1.8	2.0	6.4	6.37	82	1274
EMX-315LB-8	110	150	740	224	213	205	91.1	0.82	1420	1.8	2.0	6.4	7.23	82	1454
EMX-355M-8	132	180	740	267	254	245	91.5	0.82	1704	1.8	2.0	6.4	7.6	90	1577
EMX-355MA-8	160	220	740	323	306	295	91.9	0.82	2066	1.8	2.0	6.4	11.7	90	2051
EMX-355MB-8	185	250	740	367	348	336	92.5	0.82	2388	1.8	2.0	6.3	12.5	89	2195
EMX-355L-8	200	270	740	396	376	362	92.5	0.83	2582	1.8	2.0	6.4	12.9	90	2317
EMX-355LA-8	220	300	740	435	414	399	92.5	0.83	2839	1.8	2.0	6.4	13.9	89	2420
EMX-355LB-8	250	340	740	495	471	453	92.5	0.83	3226	1.8	2.0	6.4	14.2	89	2493

## EMX - IE 2 - 2 POLE

Frame	Rated Output		Speed (r/min)	Full Load Current 380V (AMP)	Full Load Current 400V (AMP)	Full Load Current 415V (AMP)	Efficiency (%)	Power Factor (cosΦ)	Rated Torque (Nm)	Locked Rotor Torque T <sub>ST</sub> /T <sub>FL</sub>	Maximum Torque T <sub>max</sub> /T <sub>FL</sub>	Locked Rotor Current I <sub>ST</sub> /I <sub>FL</sub>	Moment of Inertia (kgm <sup>2</sup> )	Noise Level dB (A)	Weight (kg)
	kW	HP													
EMX2-80A-2	0.75	1	2860	1.77	1.69	1.62	77.4	0.83	2.50	2.3	2.3	6.8	0.0012	62	23
EMX2-80B-2	1.1	1.5	2860	2.50	2.37	2.29	79.6	0.84	3.67	2.3	2.3	7.3	0.0017	62	24
EMX2-90S-2	1.5	2	2850	3.34	3.17	3.06	81.3	0.84	5.03	2.3	2.3	7.6	0.0026	67	43.5
EMX2-90L-2	2.2	3	2855	4.73	4.49	4.33	83.2	0.85	7.36	2.3	2.3	7.8	0.0034	67	45
EMX2-100L-2	3	4	2890	6.19	5.88	5.67	84.6	0.87	9.91	2.3	2.3	8.1	0.006	74	52
EMX2-112M-2	4	5.5	2895	8.05	7.65	7.37	85.8	0.88	13.2	2.3	2.3	8.3	0.0086	77	66
EMX2-132SA-2	5.5	7.5	2910	11.2	10.6	10.2	87.0	0.86	18.0	2.2	2.3	8.0	0.016	79	89
EMX2-132SB-2	7.5	10	2910	14.7	14.0	13.5	88.1	0.88	24.6	2.2	2.3	7.8	0.0188	79	97
EMX2-160MA-2	11	15	2940	21.0	20.0	19.2	89.4	0.89	35.7	2.2	2.3	7.9	0.0618	81	158
EMX2-160MB-2	15	20	2940	28.4	26.9	26.0	90.3	0.89	48.7	2.2	2.3	8.0	0.0674	81	165
EMX2-160L-2	18.5	25	2935	34.7	33.0	31.8	90.9	0.89	60.2	2.2	2.3	8.1	0.0808	81	176
EMX2-180M-2	22	30	2945	41.0	39.0	37.5	91.3	0.88	71.3	2.2	2.3	8.2	0.1003	83	228
EMX2-200LA-2	30	40	2960	55.5	52.7	50.8	92.0	0.88	96.8	2.2	2.3	7.5	0.189	84	287
EMX2-200LB-2	37	50	2960	68.3	64.9	62.5	92.5	0.89	119	2.2	2.3	7.5	0.1971	84	304
EMX2-225M-2	45	60	2970	82.8	78.6	75.8	92.9	0.89	145	2.2	2.3	7.6	0.3619	86	478
EMX2-250M-2	55	75	2975	99.6	94.6	91.2	93.2	0.90	177	2.2	2.3	7.6	0.4387	89	576
EMX2-280S-2	75	100	2980	135	128	124	93.8	0.90	240	2.0	2.3	6.9	0.8084	91	837
EMX2-280M-2	90	125	2980	161	153	147	94.1	0.91	288	2.0	2.3	7.0	0.9208	91	866
EMX2-315S-2	110	150	2980	196	186	179	94.3	0.91	353	2.0	2.2	7.1	1.693	92	1108
EMX2-315M-2	132	180	2980	235	223	215	94.6	0.91	423	2.0	2.2	7.1	1.8746	92	1176
EMX2-315LA-2	160	220	2980	283	269	259	94.8	0.92	513	2.0	2.2	7.1	2.2144	92	1244
EMX2-315LB-2	200	270	2975	350	333	320	95.0	0.92	642	2.0	2.2	7.1	2.5171	92	1387
EMX2-355MB-2	250	340	2980	438	416	401	95.0	0.92	801	2.0	2.2	7.1	3.8265	100	1545
EMX2-355L-2	315	430	2980	551	523	505	95.0	0.92	1009	2.0	2.2	7.1	4.5516	100	2219

## EMX - IE 2 - 4 POLE

Frame	Rated Output		Speed (r/min)	Full Load Current 380V (AMP)	Full Load Current 400V (AMP)	Full Load Current 415V (AMP)	Efficiency (%)	Power Factor (cosΦ)	Rated Torque (Nm)	Locked Rotor Torque T <sub>ST</sub> /T <sub>FL</sub>	Maximum Torque T <sub>max</sub> /T <sub>FL</sub>	Locked Rotor Current I <sub>ST</sub> /I <sub>FL</sub>	Moment of Inertia (kgm <sup>2</sup> )	Noise Level dB (A)	Weight (kg)
	kW	HP													
EMX2-90S-4	1.1	1.5	1420	2.67	2.53	2.44	81.4	0.77	7.40	2.3	2.3	6.6	0.0044	59	46
EMX2-90L-4	1.5	2	1425	3.57	3.40	3.27	82.8	0.77	10.1	2.3	2.3	6.9	0.0056	59	46
EMX2-100LA-4	2.2	3	1440	4.90	4.65	4.48	84.3	0.81	14.6	2.3	2.3	7.5	0.0109	64	52
EMX2-100LB-4	3	4	1445	6.50	6.18	5.95	85.5	0.82	19.8	2.3	2.3	7.6	0.0144	64	54
EMX2-112M-4	4	5.5	1440	8.56	8.13	7.84	86.6	0.82	26.5	2.3	2.3	7.7	0.171	65	68
EMX2-132S-4	5.5	7.5	1450	11.5	10.9	10.5	87.7	0.83	36.2	2.0	2.3	7.5	0.385	71	94
EMX2-132M-4	7.5	10	1455	15.3	14.5	14.0	88.7	0.84	49.2	2.2	2.3	7.4	0.514	71	99
EMX2-160M-4	11	15	1465	22.2	21.0	20.3	89.8	0.84	71.7	2.2	2.3	7.5	0.1076	73	169
EMX2-160L-4	15	20	1465	29.6	28.1	27.1	90.6	0.85	97.8	2.2	2.3	7.5	0.136	73	188
EMX2-180M-4	18.5	25	1470	35.8	34.0	32.8	91.2	0.86	120	2.2	2.3	7.7	0.1913	76	233
EMX2-180L-4	22	30	1475	42.4	40.3	38.9	91.6	0.86	142	2.2	2.3	7.8	0.2192	76	251
EMX2-200L-4	30	40	1475	57.4	54.6	52.6	92.3	0.86	194	2.2	2.3	7.2	0.3187	76	304
EMX2-225S-4	37	50	1480	69.7	66.2	63.8	92.7	0.87	239	2.2	2.3	7.3	0.6463	78	470
EMX2-225M-4	45	60	1485	84.4	80.2	77.3	93.1	0.87	289	2.2	2.3	7.4	0.7547	78	493
EMX2-250M-4	55	75	1480	103	97.6	94.1	93.5	0.87	355	2.2	2.3	7.4	0.9344	79	593
EMX2-280S-4	75	100	1485	139	132	128	94.0	0.87	482	2.2	2.3	6.7	1.7867	80	866
EMX2-280M-4	90	125	1490	167	159	153	94.2	0.87	577	2.2	2.3	6.9	2.1229	80	896
EMX2-315S-4	110	150	1490	201	191	184	94.5	0.88	705	2.2	2.2	6.9	3.8188	88	1125
EMX2-315M-4	132	180	1485	241	229	220	94.7	0.88	849	2.2	2.2	6.9	3.8306	88	1210
EMX2-315LA-4	160	220	1485	288	273	264	94.9	0.89	1029	2.2	2.2	6.9	4.6727	88	1278
EMX2-315LB-4	200	270	1485	357	341	329	95.1	0.89	1286	2.2	2.2	6.9	5.3463	88	1450
EMX2-355MB-4	250	340	1490	444	422	406	95.1	0.90	1602	2.2	2.2	6.9	8.2188	95	1592
EMX2-355L-4	315	430	1490	559	531	512	95.1	0.90	2019	2.2	2.2	6.9	10.5146	95	2176

## EMX - IE 2 - 6 POLE

Frame	Rated Output		Speed (r/min)	Full Load Current 380V (AMP)	Full Load Current 400V (AMP)	Full Load Current 415V (AMP)	Efficiency (%)	Power Factor (cosφ)	Rated Torque (Nm)	Locked Rotor Torque T <sub>ST</sub> /T <sub>FL</sub>	Maximum Torque T <sub>max</sub> /T <sub>FL</sub>	Locked Rotor Current I <sub>ST</sub> /I <sub>FL</sub>	Moment of Inertia (kgm <sup>2</sup> )	Noise Level dB (A)	Weight (kg)
	kW	HP													
EMX2-90S-6	0.75	1	935	2.09	1.98	1.91	75.9	0.72	7.66	2.1	2.1	5.8	0.0057	57	45
EMX2-90L-6	1.1	1.5	940	2.97	2.82	2.72	78.1	0.72	11.2	2.1	2.1	5.9	0.0072	57	47
EMX2-100L-6	1.5	2	950	3.81	3.62	3.49	79.8	0.75	15.1	2.1	2.1	6.0	0.0144	61	49
EMX2-112M-6	2.2	3	950	5.38	5.11	4.92	81.8	0.76	22.1	2.0	2.1	6.0	0.0229	65	71
EMX2-132S-6	3	4	960	7.20	6.84	6.59	83.3	0.76	29.8	2.0	2.1	6.2	0.039	69	88
EMX2-132MA-6	4	5.5	960	9.70	8.98	8.66	84.6	0.76	39.8	2.0	2.1	6.8	0.0499	69	94
EMX2-132MB-6	5.5	7.5	965	12.9	12.0	11.6	86.0	0.77	54.4	2.0	2.1	7.1	0.0714	69	104
EMX2-160M-6	7.5	10	970	16.8	15.9	15.3	87.2	0.78	73.8	2.1	2.1	6.7	0.1248	73	165
EMX2-160L-6	11	15	970	24.2	22.9	22.1	88.7	0.78	108	2.1	2.1	6.9	0.18	73	184
EMX2-180L-6	15	20	975	31.4	29.8	28.7	89.7	0.81	147	2.0	2.1	7.2	0.3415	73	233
EMX2-200LA-6	18.5	25	980	38.4	36.5	35.1	90.4	0.81	180	2.1	2.1	7.2	0.4894	73	293
EMX2-200LB-6	22	30	980	45.0	42.1	40.6	90.9	0.83	214	2.1	2.1	7.3	0.552	73	310
EMX2-225M-6	30	40	985	59.2	56.2	54.2	91.7	0.84	291	2.0	2.1	7.1	0.7063	74	493
EMX2-250M-6	37	50	985	71.9	67.4	64.9	92.2	0.86	359	2.1	2.1	7.1	1.1189	76	593
EMX2-280S-6	45	60	985	86.6	81.5	78.5	92.7	0.86	436	2.1	2.0	7.2	2.1645	78	822
EMX2-280M-6	55	75	985	104	99.2	95.6	93.1	0.86	533	2.1	2.0	7.2	2.6692	78	866
EMX2-315S-6	75	100	990	141	134	129	93.7	0.86	723	2.0	2.0	6.7	4.11	83	1091
EMX2-315M-6	90	125	990	169	161	155	94.0	0.86	868	2.0	2.0	6.7	4.8746	83	1159
EMX2-315LA-6	110	150	990	206	196	189	94.3	0.86	1061	2.0	2.0	6.7	5.9125	83	1244
EMX2-315LB-6	132	180	990	246	232	223	94.6	0.87	1273	2.0	2.0	6.7	6.9504	83	1329
EMX2-355MA-6	160	220	990	291	277	267	94.8	0.88	1543	2.0	2.0	6.7	9.9993	85	1419
EMX2-355MB-6	200	270	990	366	345	333	95.0	0.88	1929	2.0	2.0	6.7	11.1898	85	1703
EMX2-355LB-6	250	340	990	458	432	416	95.0	0.88	2412	2.0	2.0	6.7	14.0614	85	2387

## EMX - IE 2 - 8 POLE

Frame	Rated Output		Speed (r/min)	Full Load Current 380V (AMP)	Full Load Current 400V (AMP)	Full Load Current 415V (AMP)	Efficiency (%)	Power Factor (cosφ)	Rated Torque (Nm)	Locked Rotor Torque T <sub>ST</sub> /T <sub>FL</sub>	Maximum Torque T <sub>max</sub> /T <sub>FL</sub>	Locked Rotor Current I <sub>ST</sub> /I <sub>FL</sub>	Moment of Inertia (kgm <sup>2</sup> )	Noise Level dB (A)	Weight (kg)
	kW	HP													
EMX2-100LA-8	0.75	1	690	2.57	2.44	2.35	66.2	0.67	10.4	1.8	2.0	6.1	0.008	59	49
EMX2-100LB-8	1.1	1.5	690	3.42	3.25	3.13	70.8	0.69	15.2	1.8	2.0	6.1	0.01	59	52
EMX2-112M-8	1.5	2	690	4.39	4.17	4.02	74.1	0.70	20.8	1.8	2.0	6.4	0.017	61	66
EMX2-132S-8	2.2	3	710	6.07	5.76	5.56	77.6	0.71	29.6	1.8	2.0	6.4	0.0131	64	94
EMX2-132M-8	3	4	710	7.81	7.41	7.15	80.0	0.73	40.4	1.8	2.0	6.8	0.04	64	102
EMX2-160MA-8	4	5.5	720	10.2	9.66	9.31	81.9	0.73	53.1	1.9	2.0	6.8	0.075	68	158
EMX2-160MB-8	5.5	7.5	720	13.5	12.8	12.3	83.8	0.74	73.0	1.9	2.0	6.7	0.093	68	173
EMX2-160L-8	7.5	10	720	17.8	16.9	16.3	85.3	0.75	99.5	1.9	2.0	6.4	0.126	68	188
EMX2-180L-8	11	15	730	25.6	24.4	23.5	86.9	0.75	144	2.0	2.0	6.5	0.203	70	228
EMX2-200L-8	15	20	730	34.1	32.4	31.2	88.0	0.76	196	2.0	2.0	6.6	0.339	73	315
EMX2-225S-8	18.5	25	730	41.7	39.7	38.2	88.6	0.76	242	1.9	2.0	6.6	0.491	73	470
EMX2-225M-8	22	30	740	48.1	45.7	44.0	89.1	0.78	284	1.9	2.0	6.6	0.547	73	493
EMX2-250M-8	30	40	740	64.3	61.0	58.8	89.8	0.79	387	1.9	2.0	6.5	0.83	75	585
EMX2-280S-8	37	50	740	78.8	74.9	72.2	90.3	0.79	478	1.9	2.0	6.5	1.39	76	852
EMX2-280M-8	45	60	740	95.4	90.7	87.4	90.7	0.79	581	1.9	2.0	6.5	1.65	76	910
EMX2-315S-8	55	75	740	113	108	104	91.0	0.81	710	1.8	2.0	6.6	4.79	82	1108
EMX2-315M-8	75	100	740	154	146	141	91.6	0.81	968	1.8	2.0	6.1	5.58	82	1227
EMX2-315LA-8	90	125	740	181	172	166	91.9	0.82	1162	1.8	2.0	6.2	6.37	82	1312
EMX2-315LB-8	110	150	740	221	210	202	92.3	0.82	1420	1.8	2.0	6.3	7.23	82	1498
EMX2-355M-8	132	180	740	264	251	242	92.6	0.82	1704	1.8	2.0	6.3	7.6	90	1624
EMX2-355MA-8	160	220	740	319	303	292	93.0	0.82	2066	1.8	2.0	6.3	11.7	90	2113
EMX2-355L-8	200	270	740	392	372	359	93.5	0.83	2582	1.8	2.0	6.3	12.5	90	2387

## EMX - IE 3 - 2 POLE

Frame	Rated Output		Speed (r/min)	Full Load Current 380V (AMP)	Full Load Current 400V (AMP)	Full Load Current 415V (AMP)	Efficiency (%)	Power Factor (cosΦ)	Rated Torque (Nm)	Locked Rotor Torque T <sub>ST</sub> /T <sub>FL</sub>	Maximum Torque T <sub>max</sub> /T <sub>FL</sub>	Locked Rotor Current I <sub>ST</sub> /I <sub>FL</sub>	Moment of Inertia (kgm <sup>2</sup> )	Noise Level dB (A)	Weight (kg)
	kW	HP													
EMX3-80MA-2	0.75	1	2880	1.72	1.64	1.58	80.7	0.82	2.49	2.3	2.3	7.0	0.001	72	24
EMX3-80MB-2	1.1	1.5	2880	2.43	2.31	2.23	82.7	0.83	3.65	2.2	2.3	7.3	0.0013	72	25
EMX3-90S-2	1.5	2	2895	3.22	3.06	2.95	84.2	0.84	4.95	2.2	2.3	7.6	0.0024	76	44
EMX3-90L-2	22	3	2895	4.58	4.35	4.19	85.9	0.85	7.26	2.2	2.3	7.6	0.0028	77	47
EMX3-100L-2	3	4	2895	6.02	5.71	5.51	87.1	0.87	9.90	2.2	2.3	7.8	0.0074	80	54
EMX3-112M-2	4	5.5	2905	7.84	7.45	7.18	88.1	0.88	13.1	2.2	2.3	8.3	0.0085	80	68
EMX3-132SA-2	5.5	7.5	2930	10.6	10.1	9.75	89.2	0.88	17.9	2.0	2.3	8.3	0.0209	82	92
EMX3-132SB-2	7.5	10	2930	14.4	13.7	13.2	90.1	0.88	24.4	2.0	2.3	7.9	0.0285	82	99
EMX3-160MA-2	11	15	2945	20.6	19.6	18.9	91.2	0.89	35.7	2.0	2.3	8.1	0.0536	82	161
EMX3-160MB-2	15	20	2945	27.9	26.5	25.5	91.9	0.89	48.6	2.0	2.3	8.1	0.058	85	169
EMX3-160L-2	18.5	25	2940	34.2	32.5	31.3	92.4	0.89	60.1	2.0	2.3	8.2	0.0674	87	180
EMX3-180M-2	22	30	2955	40.5	38.5	37.1	92.7	0.89	71.1	2.0	2.3	8.2	0.1505	87	235
EMX3-200LA-2	30	40	2960	54.9	52.1	50.3	93.3	0.89	96.8	2.0	2.3	7.6	0.2064	89	293
EMX3-200LB-2	37	50	2960	67.4	64.0	61.7	93.7	0.89	119	2.0	2.3	7.6	0.2249	89	310
EMX3-225M-2	45	60	2965	80.8	76.8	74.0	94.0	0.90	145	2.0	2.3	7.7	0.52	91	501
EMX3-250M-2	55	75	2970	98.5	93.5	90.2	94.3	0.90	177	2.0	2.3	7.7	0.5554	91	594
EMX3-280S-2	75	100	2975	134	127	122	94.7	0.90	241	1.8	2.3	7.1	1.25	95	866
EMX3-280M-2	90	125	2975	160	152	146	95.0	0.90	289	1.8	2.3	7.1	1.42	95	925
EMX3-315S-2	110	150	2978	195	185	179	95.2	0.90	353	1.8	2.3	7.1	1.53	95	1142
EMX3-315M-2	132	180	2978	234	222	214	95.4	0.90	423	1.8	2.3	7.1	1.78	95	1212
EMX3-315LA-2	160	200	2980	279	265	256	95.6	0.91	513	1.8	2.3	7.2	2.16	95	1282
EMX3-315LB-2	200	270	2980	349	331	319	95.8	0.91	641	1.8	2.2	7.2	4.54	95	1430
EMX3-355M-2	250	340	2982	436	414	399	95.8	0.91	801	1.6	2.2	7.2	6.31	98	1577
EMX3-355L-2	315	430	2982	549	522	503	95.8	0.91	1009	1.6	2.2	7.2	6.97	98	2303

## EMX - IE 3 - 4 POLE

Frame	Rated Output		Speed (r/min)	Full Load Current 380V (AMP)	Full Load Current 400V (AMP)	Full Load Current 415V (AMP)	Efficiency (%)	Power Factor (cosΦ)	Rated Torque (Nm)	Locked Rotor Torque T <sub>ST</sub> /T <sub>FL</sub>	Maximum Torque T <sub>max</sub> /T <sub>FL</sub>	Locked Rotor Current I <sub>ST</sub> /I <sub>FL</sub>	Moment of Inertia (kgm <sup>2</sup> )	Noise Level dB (A)	Weight (kg)
	kW	HP													
EMX3-80MB-4	0.75	1	1420	1.84	1.75	1.69	82.5	0.75	5.04	2.3	2.3	6.6	0.0035	58	25
EMX3-90S-4	1.1	1.5	1445	2.61	2.48	2.39	84.1	0.76	7.27	2.3	2.3	6.8	0.0046	61	47
EMX3-90L-4	1.5	2	1445	3.47	3.3	3.18	85.3	0.77	9.91	2.3	2.3	7.0	0.005	61	48
EMX3-100LA-4	2.2	3	1450	4.76	4.52	4.36	86.7	0.81	14.6	2.3	2.3	7.6	0.0105	64	55
EMX3-100LB-4	3	4	1450	6.34	6.02	5.8	87.7	0.82	20.0	2.3	2.3	7.6	0.0146	64	58
EMX3-112M-4	4	5.5	1450	8.37	7.95	7.66	88.6	0.82	26.5	2.2	2.3	7.8	0.0188	65	71
EMX3-132S-4	5.5	7.5	1460	11.2	10.7	10.3	89.6	0.83	36.0	2.0	2.3	7.9	0.0543	71	98
EMX3-132M-4	7.5	10	1460	15.0	14.3	13.7	90.4	0.84	49.1	2.0	2.3	7.5	0.065	71	102
EMX3-160M-4	11	15	1465	21.5	20.4	19.7	91.4	0.85	71.7	2.2	2.3	7.7	0.11	75	176
EMX3-160L-4	15	20	1465	28.8	27.3	26.3	92.1	0.86	97.8	2.2	2.3	7.8	0.1306	75	195
EMX3-180M-4	18.5	25	1470	35.3	33.5	32.3	92.6	0.86	120	2.0	2.3	7.8	0.179	76	237
EMX3-180L-4	22	30	1470	41.8	39.7	38.3	93.0	0.86	143	2.0	2.3	7.8	0.246	76	255
EMX3-200L-4	30	40	1475	56.6	53.8	51.8	93.6	0.86	194	2.0	2.3	7.3	0.3865	79	315
EMX3-225S-4	37	50	1485	69.6	66.1	63.7	93.9	0.86	238	2.0	2.3	7.4	0.7004	81	493
EMX3-225M-4	45	60	1485	84.4	80.2	77.3	94.2	0.86	289	2.0	2.3	7.4	0.8412	81	523
EMX3-250M-4	55	75	1485	103	97.6	94.1	94.6	0.86	354	2.2	2.3	7.4	1.16	83	626
EMX3-280S-4	75	100	1486	136	129	125	95.0	0.88	482	2.0	2.3	6.9	2.18	86	925
EMX3-280M-4	90	125	1486	163	155	149	95.2	0.88	578	2.0	2.3	6.9	2.79	86	969
EMX3-315S-4	110	150	1488	197	187	180	95.4	0.89	706	2.0	2.2	7.0	3.25	93	1176
EMX3-315M-4	132	180	1488	236	224	216	95.6	0.89	847	2.0	2.2	7.0	3.78	94	1261
EMX3-315LA-4	160	200	1488	285	271	261	95.8	0.89	1027	2.0	2.2	7.1	3.79	94	1346
EMX3-315LB-4	200	270	1490	352	334	322	96.0	0.90	1282	2.0	2.2	7.1	6.95	94	1498
EMX3-355MB-4	250	340	1490	440	418	403	96.0	0.90	1602	2.0	2.2	7.1	8.44	95	1640
EMX3-355LB-4	315	430	1490	554	526	507	96.0	0.90	2019	2.0	2.2	7.1	11.3	95	2240

## EMX - IE 3 - 6 POLE

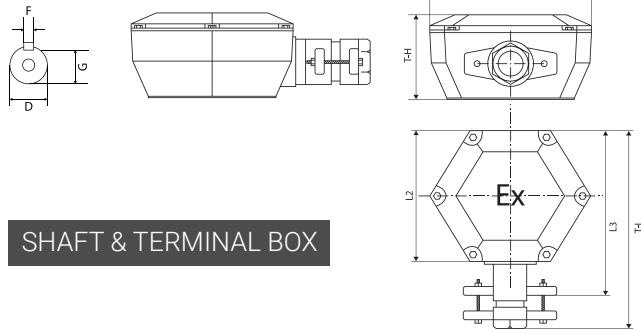
Frame	Rated Output		Speed (r/min)	Full Load Current 380V (AMP)	Full Load Current 400V (AMP)	Full Load Current 415V (AMP)	Efficiency (%)	Power Factor (cosφ)	Rated Torque (Nm)	Locked Rotor Torque T <sub>ST</sub> /T <sub>FL</sub>	Maximum Torque T <sub>max</sub> /T <sub>FL</sub>	Locked Rotor Current I <sub>ST</sub> /I <sub>FL</sub>	Moment of Inertia (kgm <sup>2</sup> )	Noise Level dB (A)	Weight (kg)
	kW	HP													
EMX3-90S-6	0.75	1	935	2.03	1.93	1.86	78.9	0.71	7.66	2.0	2.1	6.0	0.0055	57	47
EMX3-90L-6	1.1	1.5	945	2.83	2.69	2.59	81.0	0.73	11.1	2.0	2.1	6.0	0.007	57	49
EMX3-100L-6	1.5	2	949	3.78	3.59	3.47	82.5	0.73	15.1	2.0	2.1	6.5	0.0128	61	54
EMX3-112M-6	2.2	3	955	5.36	5.09	4.91	84.3	0.74	22.0	2.0	2.1	6.6	0.0225	65	73
EMX3-132S-6	3	4	968	7.20	6.84	6.59	85.6	0.74	29.6	2.0	2.1	6.8	0.0435	69	92
EMX3-132MA-6	4	5.5	968	9.46	8.99	8.66	86.8	0.74	39.5	2.0	2.1	6.8	0.0521	69	97
EMX3-132MB-6	5.5	7.5	968	12.7	12.0	11.6	88.0	0.75	54.3	2.0	2.1	7.0	0.065	69	115
EMX3-160M-6	7.5	10	970	16.2	15.4	14.8	89.1	0.79	73.8	2.0	2.1	7.0	0.1422	73	173
EMX3-160L-6	11	15	970	23.1	22.0	21.2	90.3	0.80	108	2.0	2.1	7.2	0.1755	73	195
EMX3-180L-6	15	20	978	30.9	29.3	28.2	91.2	0.81	147	2.0	2.1	7.3	0.34	73	246
EMX3-200LA-6	18.5	25	980	37.8	35.9	34.7	91.7	0.81	180	2.0	2.1	7.3	0.3812	76	302
EMX3-200LB-6	22	30	980	44.8	42.5	41.0	92.2	0.81	214	2.0	2.1	7.4	0.4491	76	315
EMX3-225M-6	30	40	980	59.1	56.2	54.1	92.9	0.83	292	2.0	2.1	6.9	0.9856	76	516
EMX3-250M-6	37	50	985	71.7	68.1	65.7	93.3	0.84	359	2.0	2.1	7.1	1.35	80	618
EMX3-280S-6	45	60	985	85.8	81.6	78.6	93.7	0.85	436	2.0	2.0	7.3	2.47	80	866
EMX3-280M-6	55	75	985	103	98.1	94.6	94.1	0.86	533	2.0	2.0	7.3	2.65	85	910
EMX3-315S-6	75	100	985	143	136	131	94.6	0.84	727	2.0	2.0	6.6	3.49	85	1142
EMX3-315M-6	90	125	988	170	161	155	94.9	0.85	870	2.0	2.0	6.7	4.12	85	1244
EMX3-315LA-6	110	150	988	207	196	189	95.1	0.85	1063	2.0	2.0	6.7	9.31	85	1312
EMX3-315LB-6	132	180	988	244	232	224	95.4	0.86	1276	2.0	2.0	6.8	10.5	92	1414
EMX3-355S-6	160	220	990	296	281	271	95.6	0.86	1543	1.8	2.0	6.8	11.4	92	1482
EMX3-355MB-6	200	270	990	365	346	334	95.8	0.87	1929	1.8	2.0	6.8	13.5	92	2071
EMX3-355LB-6	250	340	990	456	433	417	95.8	0.87	2412	1.8	2.0	6.8	14.4	92	2461

## EMX - IE 3 - 8 POLE

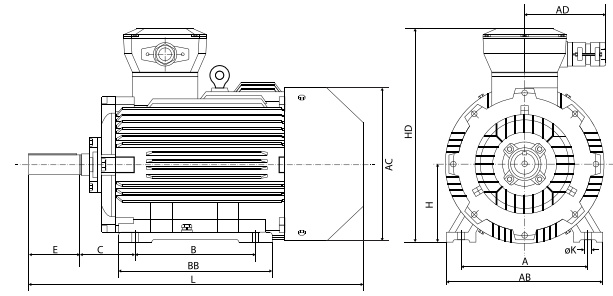
Frame	Rated Output		Speed (r/min)	Full Load Current 380V (AMP)	Full Load Current 400V (AMP)	Full Load Current 415V (AMP)	Efficiency (%)	Power Factor (cosφ)	Rated Torque (Nm)	Locked Rotor Torque T <sub>ST</sub> /T <sub>FL</sub>	Maximum Torque T <sub>max</sub> /T <sub>FL</sub>	Locked Rotor Current I <sub>ST</sub> /I <sub>FL</sub>	Moment of Inertia (kgm <sup>2</sup> )	Noise Level dB (A)	Weight (kg)
	kW	HP													
EMX3-100LA-8	0.75	1	685	2.27	2.15	2.08	75.0	0.67	10.5	1.8	2.0	4.0	0.008	59	52
EMX3-100LB-8	1.1	1.5	685	3.12	2.96	2.85	77.7	0.69	15.3	1.8	2.0	5.0	0.01	59	54
EMX3-112M-8	1.5	2.0	695	4.08	3.88	3.74	79.7	0.70	20.6	1.8	2.0	5.0	0.017	61	69
EMX3-132S-8	2.2	3.0	710	5.75	5.46	5.26	81.9	0.71	29.6	1.8	2.0	6.0	0.0131	64	99
EMX3-132M-8	3	4	710	7.48	7.10	6.85	83.5	0.73	40.4	1.8	2.0	6.0	0.04	64	107
EMX3-160MA-8	4	6	725	9.82	9.33	8.99	84.8	0.73	52.7	1.9	2.0	6.0	0.075	68	165
EMX3-160MB-8	5.5	7.5	725	13.1	12.4	12.0	86.2	0.74	72.4	1.9	2.0	6.0	0.093	68	176
EMX3-160L-8	7.5	10	725	17.4	16.5	15.9	87.3	0.75	98.8	1.9	2.0	6.0	0.126	68	207
EMX3-180L-8	11	15	735	25.2	23.9	23.0	88.6	0.75	143	2.0	2.0	6.5	0.203	70	242
EMX3-200L-8	15	20	730	33.5	31.8	30.6	89.6	0.76	196	2.0	2.0	6.6	0.339	73	326
EMX3-225S-8	18.5	25	730	41.0	39.0	37.6	90.1	0.76	242	1.9	2.0	6.6	0.491	73	516
EMX3-225M-8	22	30	730	47.3	44.9	43.3	90.6	0.78	288	1.9	2.0	6.6	0.547	73	546
EMX3-250M-8	30	40	735	63.2	60.0	57.9	91.3	0.79	390	1.9	2.0	6.5	0.83	75	652
EMX3-280S-8	37	50	735	77.5	73.6	71.0	91.8	0.79	481	1.9	2.0	6.6	1.39	76	925
EMX3-280M-8	45	60	735	93.9	89.2	85.9	92.2	0.79	585	1.9	2.0	6.6	1.65	76	1013
EMX3-315S-8	55	75	735	112	106	102	92.5	0.81	715	1.8	2.0	6.6	4.79	82	1210
EMX3-315M-8	75	100	735	151	144	138	93.1	0.81	975	1.8	2.0	6.2	5.58	82	1346
EMX3-315LA-8	90	125	735	179	170	163	93.4	0.82	1169	1.8	2.0	6.4	6.37	82	1465
EMX3-315LB-8	110	150	735	218	207	199	93.7	0.82	1429	1.8	2.0	6.4	7.23	82	1640
EMX3-355S-8	132	180	740	260	247	238	94.0	0.82	1704	1.8	2.0	6.4	7.6	82	2092
EMX3-355M-8	160	200	740	314	299	288	94.3	0.82	2065	1.8	2.0	6.4	11.73	92	2324
EMX3-355LB-8	200	270	740	387	368	354	94.6	0.83	2581	1.8	2.0	6.4	12.48	92	2430

# DIMENSIONAL DRAWING

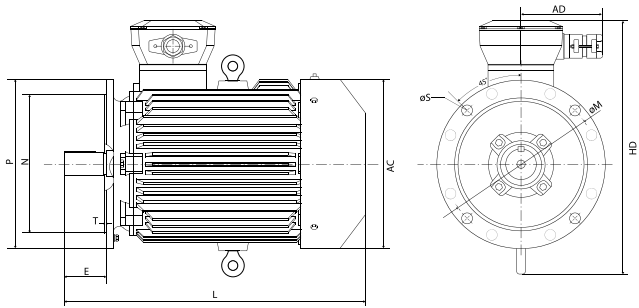
## EMX IE 4



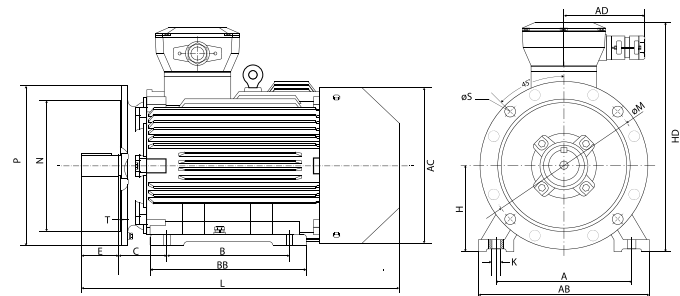
SHAFT & TERMINAL BOX



EMX B3 MOUNTING



EMX B5 MOUNTING



EMX B35 MOUNTING

Frame Size	Pole	Mounting dimension (mm)											Over all dimensions (mm)										T-Box dimension (mm)						
		A	B	C	H	K	M	N	P	S	T	No. of flange holes	D	E	F	G	AB	AC	AD	BB	HD	L	L1	L2	L3	T-H	T-L	No. of Cable Entry	
		Single	Double																										
80M	2,4,6,8	125	100	50	80	10	165	130	200	12	3.5	4	19	40	6	15.5	165	165	180	130	320	330	151	175	184	74	170	M32*1.5	Optional
90S	2,4,6,8	140	100	56	90	12	165	130	200	12	3.5	4	24	50	8	20	180	180	180	135	350	370	151	175	184	74	170	M32*1.5	Optional
90L	2,4,6,8	140	125	56	90	12	165	130	200	12	3.5	4	24	50	8	20	180	180	180	160	350	395	151	175	184	74	170	M32*1.5	Optional
100L	2,4,6,8	160	140	63	100	12	215	180	250	15	4	4	28	60	8	24	200	205	180	180	360	450	151	175	184	74	170	M32*1.5	Optional
112M	2,4,6,8	190	140	70	112	12	215	180	250	15	4	4	28	60	8	24	245	230	200	180	380	500	180	208	218	84	258	M32*1.5	Optional
132S	2,4,6,8	216	140	89	132	15	265	230	300	15	4	4	38	80	10	33	280	270	200	190	430	550	180	208	218	84	258	M32*1.5	Optional
132M	2,4,6,8	216	178	89	132	15	265	230	300	15	4	4	38	80	10	33	280	270	200	230	430	600	180	208	218	84	258	M32*1.5	Optional
160M	2,4,6,8	254	210	108	160	15	300	250	350	19	5	4	42	110	12	37	330	325	220	260	500	720	210	243	287	95	335	M40*1.5	Optional
160L	2,4,6,8	254	254	108	160	15	300	250	350	19	5	4	42	110	12	37	330	325	220	310	500	750	210	243	287	95	335	M40*1.5	Optional
180M	2,4,6,8	279	241	121	180	19	300	250	350	19	5	4	48	110	14	42.5	355	360	220	241	550	770	210	243	287	95	335	M40*1.5	Optional
180L	2,4,6,8	279	279	121	180	19	300	250	350	19	5	4	48	110	14	42.5	355	360	220	279	550	790	210	243	287	95	335	M40*1.5	Optional
200L	2,4,6,8	318	305	133	200	19	350	300	400	19	5	4	55	110	16	49	390	400	250	370	645	840	262	304	341	105	386	M50*1.5	Optional
225S	4,8	356	286	149	225	19	400	350	450	19	5	8	60	140	18	53	435	400	250	355	690	890	262	304	341	105	386	M50*1.5	Optional
225M	2	356	311	149	225	19	400	350	450	19	5	8	55	110	16	49	435	400	250	380	690	890	262	304	341	105	386	M50*1.5	Optional
	4,6,8	356	311	149	225	19	400	350	450	19	5	8	60	140	18	53	435	400	250	380	690	920	262	304	341	105	386	M50*1.5	Optional
250M	2	406	349	168	250	24	500	450	550	19	5	8	60	140	18	53	486	500	300	420	730	965	325	371	442	120	487	M63*1.5	Optional
	4,6,8	406	349	168	250	24	500	450	550	19	5	8	65	140	18	58	490	500	300	420	730	965	325	371	442	120	487	M63*1.5	Optional
280S	2	457	368	190	280	24	500	450	550	19	5	8	65	140	18	58	545	565	300	445	810	1010	325	371	442	120	487	M63*1.5	Optional
	4,6,8	457	368	190	280	24	500	450	550	19	5	8	75	140	20	67.5	545	565	300	445	810	1010	325	371	442	120	487	M63*1.5	Optional
280M	2	457	419	190	280	24	500	450	550	19	5	8	65	140	18	58	545	565	300	500	810	1080	325	371	442	120	487	M63*1.5	Optional
	4,6,8	457	419	190	280	24	500	450	550	19	5	8	75	140	20	67.5	545	565	300	500	810	1080	325	371	442	120	487	M63*1.5	Optional
315S	2	508	406	216	315	28	600	550	660	24	6	8	65	140	18	58	640	630	360	550	1020	1185	370	370	-	170	425	2*M63*1.5	
	4,6,8,10	508	406	216	315	28	600	550	660	24	6	8	80	170	22	71	640	630	360	550	1020	1260	370	370	-	170	425	2*M63*1.5	
315M	2	508	457	216	315	28	600	550	660	24	6	8	65	140	18	58	640	630	360	680	1020	1305	370	370	-	170	425	2*M63*1.5	
	4,6,8,10	508	457	216	315	28	600	550	660	24	6	8	80	170	22	71	640	630	360	680	1020	1380	370	370	-	170	425	2*M63*1.5	
315L	2	508	508	216	315	28	600	550	660	24	6	8	65	140	18	58	640	630	360	680	1020	1305	370	370	-	170	425	2*M63*1.5	
	4,6,8,10	508	508	216	315	28	600	550	660	24	6	8	80	170	22	71	640	630	360	680	1020	1380	370	370	-	170	425	2*M63*1.5	
355S	2	610	500	254	355	28	740	680	800	24	6	8	75	140	20	67.5	740	750	360	640	1080	1415	370	370	-	170	425	2*M63*1.5	
	4,6,8,10	610	500	254	355	28	740	680	800	24	6	8	95	170	25	86	740	750	360	640	1080	1485	370	370	-	170	425	2*M63*1.5	
355M	2	610	560	254	355	28	740	680	800	24	6	8	75	140	20	67.5	740	750	360	700	1080	1495	370	370	-	170	425	2*M63*1.5	
	4,6,8,10	610	560	254	355	28	740	680	800	24	6	8	95	170	25	86	740	750	360	700	1080	1565	370	370	-	170	425	2*M63*1.5	
355L	2	610	630	254	355	28	740	680	800	24	6	8	75	140	20	67.5	740	750	360	700	1080	1645	370	370	-	170	425	2*M63*1.5	
	4,6,8	610	630	254	355	28	740	680	800	24	6	8	95	170	25	86	740	750	360	700	1080	1675	370	370	-	170	425	2*M63*1.5	

Please Note: The technical information contained within this document reflects current engineering design and is subject to modification without prior notification. For the most precise and current technical specifications, kindly consult your sales representative.

## EMX - IE 4 - 2 POLE

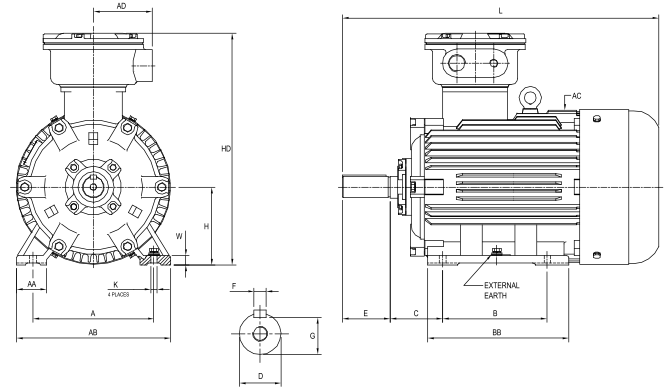
Frame	Rated Output		Speed (r/min)	Full Load Current 380V (AMP)	Full Load Current 400V (AMP)	Full Load Current 415V (AMP)	Efficiency (%)	Power Factor (cosφ)	Rated Torque (Nm)	Locked Rotor Torque TST/TFL	Maximum Torque T <sub>max</sub> /TFL	Locked Rotor Current IST/IFL	Moment of Inertia (kgm <sup>2</sup> )	Noise Level dB (A)	Weight (kg)
	kW	HP													
EMX4-80MA-2	0.75	1	2875	1.62	1.54	1.48	83.5	0.83	2.5	2.2	2.3	8.5	0.001	62	27
EMX4-80MB-2	1.1	1.5	2885	2.32	2.20	2.12	852	0.83	3.65	2.2	2.3	8.5	0.002	62	28
EMX4-90S-2	1.5	2	2890	3.06	2.91	2.80	86.5	0.85	4.97	2.2	2.3	9.0	0.002	67	51
EMX4-90L-2	2.2	3	2895	4.36	4.14	3.99	88.0	0.86	7.32	2.2	2.3	9.0	0.003	67	53
EMX4-100L-2	3	4	2900	5.84	5.55	5.35	89.1	0.87	9.88	2.2	2.3	9.5	0.006	74	62
EMX4-112M-2	4	5.5	2915	7.64	7.26	7.00	90.0	0.88	13.2	2.2	2.3	9.5	0.009	77	78
EMX4-132SA-2	5.5	7.5	2925	10.3	9.8	9.43	90.9	0.88	18	2.0	2.3	9.5	0.024	79	99
EMX4-132SB-2	7.5	10	2925	13.9	13.2	12.7	91.7	0.89	24.7	2.0	2.3	9.5	0.029	79	104
EMX4-160MA-2	11	15	2940	20.2	19.2	18.5	92.6	0.89	35.7	2.0	2.3	9.5	0.067	81	150
EMX4-160MB-2	15	20	2940	27.4	26.0	25.1	93.3	0.89	48.9	2.0	2.3	9.5	0.08	81	173
EMX4-160L-2	18.5	25	2940	33.6	31.9	30.8	93.7	0.89	60.3	2.0	2.3	9.5	0.097	81	184
EMX4-180M-2	22	30	2945	39.8	37.8	36.4	94.0	0.89	71.3	2.0	2.3	9.5	0.137	83	220
EMX4-200LA-2	30	40	2970	54.2	51.5	49.6	94.5	0.89	96.5	2.0	2.3	9.0	0.227	84	321
EMX4-200LB-2	37	50	2970	66.6	63.3	61.0	94.8	0.89	119	2.0	2.3	9.0	0.269	84	338
EMX4-225M-2	45	60	2970	80.8	76.8	74.0	95.0	0.89	145	2.0	2.3	9.0	0.36	86	546
EMX4-250M-2	55	75	2970	98.5	93.6	90.2	95.3	0.89	177	2.0	2.3	9.0	0.791	89	693
EMX4-280S-2	75	100	2980	134	127	123	95.6	0.89	241	1.8	2.3	8.5	0.96	91	1042
EMX4-280M-2	90	125	2980	160	152	147	95.8	0.89	289	1.8	2.3	8.5	1.157	91	1101
EMX4-315S-2	110	150	2985	196	186	179	96.0	0.89	353	1.8	2.3	8.5	1.662	92	1261
EMX4-315M-2	132	180	2985	235	223	215	96.2	0.89	423	1.8	2.3	8.5	1.874	92	1363
EMX4-315LA-2	160	200	2985	284	270	260	96.3	0.89	513	1.8	2.2	8.5	2.146	92	1465
EMX4-315LB-2	185	250	2985	328	312	300	96.5	0.89	593	1.8	2.2	8.5	-	92	1561
EMX4-315LC-2	200	270	2985	355	337	325	96.5	0.89	641	1.8	2.2	8.5	2.448	92	1608
EMX4-355MA-2	220	300	2990	381	362	349	96.5	0.91	705	1.6	2.2	8.5	-	100	1656
EMX4-355MB-2	250	340	2990	433	411	396	96.5	0.91	801	1.6	2.2	8.5	4.4	100	1703
EMX4-355LA-2	280	375	2990	484	460	443	96.5	0.91	897	1.6	2.2	8.5	-	100	2176
EMX4-355LB-2	315	430	2990	545	518	499	96.5	0.91	1009	1.6	2.2	8.5	5	100	2648

## EMX - IE 4 - 4 POLE

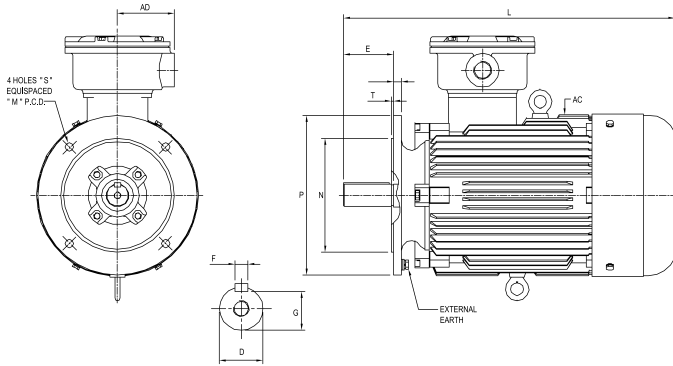
Frame	Rated Output		Speed (r/min)	Full Load Current 380V (AMP)	Full Load Current 400V (AMP)	Full Load Current 415V (AMP)	Efficiency (%)	Power Factor (cosφ)	Rated Torque (Nm)	Locked Rotor Torque TST/TFL	Maximum Torque T <sub>max</sub> /TFL	Locked Rotor Current IST/IFL	Moment of Inertia (kgm <sup>2</sup> )	Noise Level dB (A)	Weight (kg)
	kW	HP													
EMX4-80MB-4	0.75	1.00	1425	1.80	1.71	1.65	85.7	0.74	5.03	2.3	2.3	8.5	0.003	56	29
EMX4-90S-4	1.1	1.5	1430	2.55	2.42	2.33	87.5	0.75	7.35	2.3	2.3	8.5	0.004	59	53
EMX4-90L-4	1.5	2.0	1430	3.31	3.14	3.03	88.2	0.78	10.1	2.3	2.3	9.0	0.005	59	55
EMX4-100LA-4	22	3	1435	4.71	4.47	4.31	89.5	0.79	14.5	2.3	2.3	9.0	0.012	64	63
EMX4-100LB-4	3	4	1440	6.31	5.99	5.78	90.4	0.80	20.2	2.3	2.3	9.5	0.016	64	67
EMX4-112M-4	4	6	1450	8.35	7.93	7.65	91.1	0.80	26.3	2.2	2.3	9.5	0.022	65	82
EMX4-132S-4	5.5	7.5	1460	11.3	10.7	10.3	91.9	0.80	36.0	2.0	2.3	9.5	0.06	71	107
EMX4-132M-4	7.5	10.0	1460	15.2	14.4	13.9	92.6	0.81	49.6	2.0	2.3	9.5	0.071	71	160
EMX4-160M-4	11	15	1470	21.5	20.4	19.7	93.3	0.83	71.5	2.2	2.3	9.5	0.137	73	195
EMX4-160L-4	15	20	1470	28.8	27.4	26.4	93.9	0.84	97.4	2.2	2.3	9.5	0.171	73	211
EMX4-180M-4	18.5	25.0	1475	35.1	33.3	32.1	94.2	0.85	120	2.0	2.3	9.5	0.238	76	267
EMX4-180L-4	22	30	1475	41.5	39.4	38.0	94.5	0.85	142	2.0	2.3	9.5	0.259	76	310
EMX4-200L-4	30	40	1475	56.4	53.6	51.6	94.9	0.85	194	2.0	2.3	9.0	0.459	76	349
EMX4-225S-4	37	50	1480	69.4	65.9	63.5	95.2	0.85	239	2.0	2.3	9.0	0.656	78	561
EMX4-225M-4	45	60	1480	84.1	79.9	77.0	95.4	0.85	290	2.0	2.3	9.0	0.758	78	562
EMX4-250M-4	55	75	1480	101	96.0	92.5	95.7	0.86	355	2.0	2.3	9.0	1.078	79	693
EMX4-280S-4	75	100	1485	136	129	125	96.0	0.87	484	2.0	2.3	8.5	1.8	80	1086
EMX4-280M-4	90	125	1485	162	154	148	96.1	0.88	579	2.0	2.3	8.5	2.13	80	1204
EMX4-315S-4	110	150	1490	195	185	179	96.3	0.89	707	2.0	2.2	8.5	3.415	88	1414
EMX4-315M-4	132	180	1490	234	222	214	96.4	0.89	849	2.0	2.2	8.5	3.807	88	1550
EMX4-315LA-4	160	200	1490	280	266	256	96.6	0.90	1029	2.0	2.2	8.5	3.423	88	1640
EMX4-315LB-4	185	250	1490	323	307	296	96.7	0.90	1190	2.0	2.2	8.5	-	88	1703
EMX4-315LC-4	200	270	1490	349	332	320	96.7	0.90	1286	2.0	2.2	8.5	5.262	88	1750
EMX4-355MA-4	220	300	1495	384	365	352	96.7	0.90	1412	2.0	2.2	8.5	-	95	2176
EMX4-355MB-4	250	340	1495	436	414	399	96.7	0.90	1597	2.0	2.2	8.5	9.9	95	2303
EMX4-355LA-4	280	375	1495	488	464	447	96.7	0.90	1797	2.0	2.2	8.5	-	95	2366
EMX4-355LB-4	315	430	1495	549	522	503	96.7	0.90	2022	2.0	2.2	8.5	11.6	95	2493

# DIMENSIONAL DRAWING

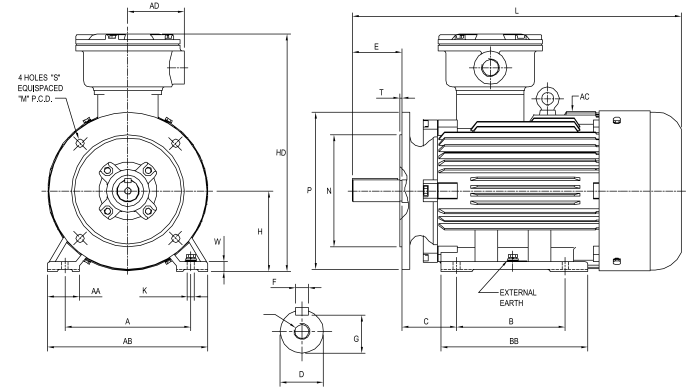
## EX D I SERIES



EX D I B3 MOUNTING



EX D I B5 MOUNTING



EX D I B35 MOUNTING

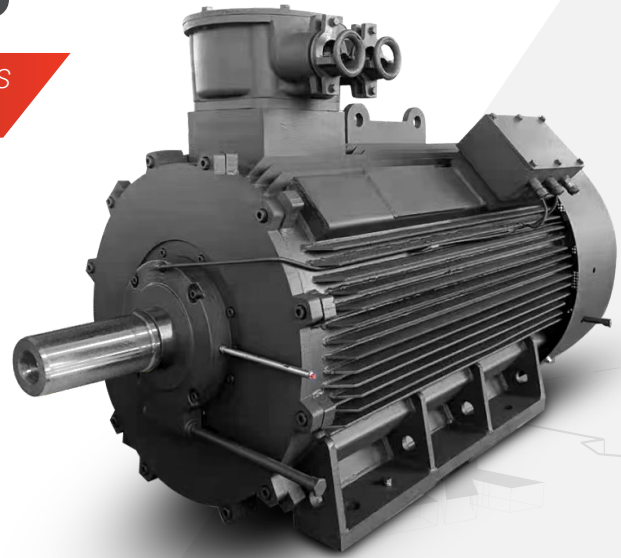
Frame Size	Pole	Mounting dimension (mm)															Over all dimensions (mm)							
		A	B	C	D	E	F	G	H	K	M	N	P	S	T	W	AB	AC	AD	AE	BB	HD	L	
80M	2,4,6,8	125	100	50	19	40	6	15.5	80	10	165	130	200	12	3.5	10	160	167	178	34	130	310	340	
90S	2,4,6,8	140	100	56	24	50	8	20	90	10	165	130	200	12	3.5	14	176	184	178	36	130	335	390	
90L	2,4,6,8	140	125	56	24	50	8	20	90	10	165	130	200	12	3.5	14	176	184	178	36	155	335	420	
100L	2,4,6,8	160	140	63	28	60	8	24	100	12	215	180	250	15	4	14	200	207	178	43	176	360	470	
112M	2,4,6,8	190	140	70	28	60	8	24	112	12	215	180	250	15	4	16	240	221	193	50	180	375	520	
132S	2,4,6,8	216	140	89	38	80	10	33	132	12	265	230	300	15	4	18	276	260	193	60	190	420	530	
132M	2,4,6,8	216	178	89	38	80	10	33	132	12	265	230	300	15	4	18	276	260	193	60	230	420	570	
160M	2,4,6,8	254	210	108	42	110	12	37	160	14.5	300	250	350	19	5	25	324	315	210	70	258	500	700	
160L	2,4,6,8	254	254	108	42	110	12	37	160	14.5	300	250	350	19	5	25	324	315	210	70	302	500	730	
180M	2,4,6,8	279	241	121	48	110	14	42.5	180	15	300	250	350	19	5	22	349	356	210	70	311	535	790	
180L	2,4,6,8	279	279	121	48	110	14	42.5	180	15	300	250	350	19	5	22	349	356	210	70	349	535	810	
200L	2,4,6,8	318	305	133	55	110	16	49	200	19	350	300	400	19	5	25	388	398	240	70	366	612	850	
225S	4,8	356	286	149	60	140	18	53	225	18.5	400	350	450	19	5	28	431	446	240	75	355	665	900	
225M	2	356	311	149	55	110	16	49	225	18.5	400	350	450	19	5	28	431	446	240	75	380	665	900	
	4,6,8	356	311	149	60	140	18	53	225	18.5	400	350	450	19	5	28	431	446	240	75	380	665	930	
250M	2	406	349	168	60	140	18	53	250	24	500	450	550	19	5	30	486	495	279	80	420	730	990	
	4,6,8	406	349	168	65	140	18	58	250	24	500	450	550	19	5	30	486	495	279	80	420	730	990	
280S	2	457	368	190	65	140	18	58	280	24	500	450	550	19	5	35	542	547	279	85	438	790	1020	
	4,6,8	457	368	190	75	140	20	67.5	280	24	500	450	550	19	5	35	542	547	279	85	438	790	1030	
280M	2	457	419	190	65	140	18	58	280	24	500	450	550	19	5	35	542	547	279	85	489	790	1070	
	4,6,8	457	419	190	75	140	20	67.5	280	24	500	450	550	19	5	35	542	547	279	85	489	790	1080	
315S	2	508	406	216	65	140	18	58	315	28	600	550	660	24	6	45	628	620	330	120	550	980	1210	
	4,6,8,10	508	406	216	80	170	22	71	315	28	600	550	660	24	6	45	628	620	330	120	550	980	1290	
315M	2	508	457	216	65	140	18	58	315	28	600	550	660	24	6	45	628	620	330	120	680	980	1330	
	4,6,8,10	508	457	216	80	170	22	71	315	28	600	550	660	24	6	45	628	620	330	120	680	980	1410	
315L	2	508	508	216	65	140	18	58	315	28	600	550	660	24	6	45	628	620	330	120	680	980	1330	
	4,6,8,10	508	508	216	80	170	22	71	315	28	600	550	660	24	6	45	628	620	330	120	680	980	1410	
355S	2	610	500	254	75	140	20	67.5	355	28	740	680	800	24	6	52	726	700	330	116	636	1120	1490	
	4,6,8,10	610	500	254	95	170	25	86	355	28	740	680	800	24	6	52	726	700	330	116	636	1120	1520	
355M	2	610	560	254	75	140	20	67.5	355	28	740	680	800	24	6	52	726	700	330	116	696	1120	1570	
	4,6,8,10	610	560	254	95	170	25	86	355	28	740	680	800	24	6	52	726	700	330	116	696	1120	1600	
355L	2	610	630	254	75	140	20	67.5	355	28	740	680	800	24	6	52	726	700	330	116	766	1120	1680	
	4,6,8,10	610	630	254	95	170	25	86	355	28	740	680	800	24	6	52	726	700	330	116	766	1120	1710	

Please Note: The technical information contained within this document reflects current engineering design and is subject to modification without prior notification. For the most precise and current technical specifications, kindly consult your sales representative.

# EX D I SERIES

ATEX CERTIFIED EXPLOSION PROOF MOTORS FOR COAL MINE

Specifically engineered for the demanding conditions of the global coal mining industry and certified to meet rigorous international standards, including the ATEX directive, our explosion-proof motors feature a strong, robust, and durable frame for exceptional longevity. These motors provide comprehensive protection for a wide range of hazardous locations within mining operations worldwide, ensuring reliable and safe performance in compliance with stringent global safety regulations.



## MODEL DATA

### FEATURES

- CERTIFIED BY CHINA CERTIFICATION BODY
- UP TO 315KW
- UP TO 355 FRAME
- UP TO 8P DESIGN
- CUSTOMIZABLE



### CJEX20.0787- 0798 CERTIFICATE

Specifically designed for the coal mine industry, our explosion-proof motors are certified to the international ATEX directive, delivering robust protection for the broad spectrum of hazardous locations present in mining operations. These motors adhere to stringent safety regulations up to the most demanding levels, ensuring versatile and compliant solutions tailored for the varying risks and temperature ratings inherent in coal mining.

## EXD I - IE 1 - 2 POLE

Frame	Rated Output		Speed (r/min)	Full Load Current 380V (AMP)	Full Load Current 400V (AMP)	Full Load Current 415V (AMP)	Efficiency (%)	Power Factor (cosΦ)	Rated Torque (Nm)	Locked Rotor Torque T <sub>ST</sub> /T <sub>FL</sub>	Maximum Torque T <sub>max</sub> /T <sub>FL</sub>	Locked Rotor Current I <sub>ST</sub> /I <sub>FL</sub>	Noise Level dB (A)	Weight (kg)
	kW	HP												
YBK3-80M1-2 (IE1)	0.75	1	2840	1.83	1.70	1.67	75.2	0.83	2.50	2.2	2.3	6.1	69	16
YBK3-80M2-2 (IE1)	1.1	1.5	2840	2.61	2.50	2.39	76.3	0.84	3.70	2.2	2.3	6.9	69	17
YBK3-90S-2 (IE1)	1.5	2	2850	3.45	3.20	3.16	78.6	0.84	5.00	2.2	2.3	7.0	74	20
YBK3-90L-2 (IE1)	2.2	3	2850	4.85	4.60	4.44	81.1	0.85	7.40	2.2	2.3	7.0	74	25
YBK3-100L-2 (IE1)	3	4	2880	6.33	6.00	5.79	82.8	0.87	10.0	2.2	2.3	7.5	78	30
YBK3-112M1-2 (IE1)	4	5.5	2880	8.18	7.90	7.49	84.4	0.88	13.3	2.2	2.3	7.5	79	38
YBK3-132S1-2 (IE1)	5.5	7.5	2900	11.1	10.5	10.1	85.8	0.88	18.1	2.2	2.3	7.5	82	57
YBK3-132S2-2 (IE1)	7.5	10	2900	14.9	14.2	13.6	87.2	0.88	24.5	2.2	2.3	7.5	82	60
YBK3-160M1-2 (IE1)	11	15	2930	21.2	20.1	19.4	88.5	0.89	35.8	2.2	2.3	7.5	88	100
YBK3-160M2-2 (IE1)	15	20	2930	28.6	27.2	26.2	89.6	0.89	48.8	2.2	2.3	7.5	88	110
YBK3-160L-2 (IE1)	18.5	25	2930	34.7	32.9	31.7	90.1	0.90	60.4	2.2	2.3	7.5	88	125
YBK3-180M-2 (IE1)	22	30	2940	41.0	38.9	37.5	90.6	0.90	71.4	2.0	2.3	7.5	91	175
YBK3-200L1-2 (IE1)	30	40	2950	55.4	52.6	50.7	91.5	0.90	97.2	2.0	2.3	7.5	94	225
YBK3-200L2-2 (IE1)	37	50	2950	67.7	64.5	62.0	92.2	0.90	120	2.0	2.3	7.5	94	245
YBK3-225M-2 (IE1)	45	60	2970	82.0	78.0	75.0	92.7	0.90	145	2.0	2.3	7.5	94	280
YBK3-250M-2 (IE1)	55	75	2970	100	94.6	91.1	93.3	0.90	177	2.0	2.3	7.5	95	380
YBK3-280S-2 (IE1)	75	100	2970	135	128	124	93.8	0.90	241	2.0	2.3	7.0	96	510
YBK3-280M-2 (IE1)	90	125	2970	160	152	146	94.0	0.91	290	2.0	2.3	7.1	96	580
YBK3-315S-2 (IE1)	110	150	2980	195	185	179	94.2	0.91	353	1.8	2.2	7.1	98	850
YBK3-315M-2 (IE1)	132	180	2980	233	221	213	94.7	0.91	423	1.8	2.2	7.1	98	945
YBK3-315L1-2 (IE1)	160	220	2980	282	270	258	94.8	0.91	513	1.8	2.2	7.1	101	1020
YBK3-315L2-2 (IE1)	200	250	2980	348	330	318	95.0	0.92	641	1.8	2.2	7.1	101	1180
YBK3-355M-2 (IE1)	250	340	2980	433	408	396	95.4	0.92	802	1.6	2.2	7.1	105	1740
YBK3-355L-2 (IE1)	315	430	2980	545	510	499	95.5	0.92	1010	1.6	2.2	7.1	105	1900

## EXD I - IE 1 - 4 POLE

Frame	Rated Output		Speed (r/min)	Full Load Current 380V (AMP)	Full Load Current 400V (AMP)	Full Load Current 415V (AMP)	Efficiency (%)	Power Factor (cosΦ)	Rated Torque (Nm)	Locked Rotor Torque T <sub>ST</sub> /T <sub>FL</sub>	Maximum Torque T <sub>max</sub> /T <sub>FL</sub>	Locked Rotor Current I <sub>ST</sub> /I <sub>FL</sub>	Noise Level dB (A)	Weight (kg)
	kW	HP												
YBK3-80M1-4 (IE1)	0.55	0.75	1390	1.57	1.52	1.43	71.1	0.75	3.80	2.4	2.3	5.2	63	17
YBK3-80M2-4 (IE1)	0.75	1	1390	2.05	2.00	1.88	73.2	0.76	5.20	2.3	2.3	6.0	63	18
YBK3-90S-4 (IE1)	1.1	1.5	1400	2.84	2.76	2.60	76.3	0.77	7.5	2.3	2.3	6.0	66	20
YBK3-90L-4 (IE1)	1.5	2	1400	3.71	3.61	3.40	78.7	0.78	10.2	2.3	2.3	6.0	66	23
YBK3-100L1-4 (IE1)	2.2	3	1420	5.08	4.85	4.65	81.2	0.81	14.8	2.3	2.3	7.0	69	30
YBK3-100L2-4 (IE1)	3	4	1420	6.72	6.46	6.15	82.7	0.82	20.2	2.3	2.3	7.0	69	35
YBK3-112M-4 (IE1)	4	5.5	1440	8.8	8.4	8.0	84.4	0.82	26.5	2.3	2.3	7.0	70	40
YBK3-132S-4 (IE1)	5.5	7.5	1440	11.7	11.1	10.7	86.0	0.83	36.5	2.3	2.3	7.0	76	60
YBK3-132M-4 (IE1)	7.5	10	1440	15.6	14.8	14.2	87.2	0.84	49.8	2.3	2.3	7.0	76	70
YBK3-160M-4 (IE1)	11	15	1460	22.5	21.4	20.6	88.5	0.84	72.0	2.2	2.3	7.0	79	110
YBK3-160L-4 (IE1)	15	20	1460	29.9	28.8	27.4	89.6	0.85	98	2.2	2.3	7.5	79	130
YBK3-180M-4 (IE1)	18.5	25	1470	36.2	34.4	33.2	90.2	0.86	120	2.2	2.3	7.5	80	165
YBK3-180L-4 (IE1)	22	30	1470	42.9	40.8	39.3	90.6	0.86	143	2.2	2.3	7.5	80	180
YBK3-200L-4 (IE1)	30	40	1470	57.9	54.6	53.0	91.6	0.86	195	2.2	2.3	7.2	83	240
YBK3-225S-4 (IE1)	37	50	1480	70.1	66.2	64.2	92.2	0.87	239	2.2	2.3	7.2	85	280
YBK3-225M-4 (IE1)	45	60	1480	85	80.3	77.6	92.7	0.87	291	2.2	2.3	7.2	85	310
YBK3-250M-4 (IE1)	55	75	1480	103	98	94	93.2	0.87	355	2.2	2.3	7.2	86	400
YBK3-280S-4 (IE1)	75	100	1480	138	131	126	93.8	0.88	484	2.2	2.3	6.8	89	540
YBK3-280M-4 (IE1)	90	125	1480	165	157	151	94.0	0.88	581	2.2	2.3	6.8	89	620
YBK3-315S-4 (IE1)	110	150	1480	201	190	184	94.7	0.88	710	2.1	2.2	6.9	96	870
YBK3-315M-4 (IE1)	132	180	1480	240	228	220	95.0	0.88	852	2.1	2.2	6.9	96	990
YBK3-315L1-4 (IE1)	160	220	1480	287	273	263	95.1	0.89	1032	2.1	2.2	6.9	100	1050
YBK3-315L2-4 (IE1)	200	270	1480	359	340	328	95.2	0.89	1290	2.1	2.2	6.9	100	1250
YBK3-355M1-4 (IE1)	220	300	1490	390	372	357	95.2	0.90	1411	2.1	2.2	6.9	104	1650
YBK3-355M2-4 (IE1)	250	340	1490	443	420	406	95.3	0.90	1603	2.1	2.2	6.9	104	1750
YBK3-355L1-4 (IE1)	280	375	1490	496	471	454	95.3	0.90	1796	2.1	2.2	7.1	104	1790
YBK3-355L2-4 (IE1)	315	430	1490	558	521	511	95.3	0.90	2020	2.1	2.2	7.1	104	1900

## EX D I - IE 1 - 6 POLE

Frame	Rated Output		Speed (r/min)	Full Load Current 380V (AMP)	Full Load Current 400V (AMP)	Full Load Current 415V (AMP)	Efficiency (%)	Power Factor (cosΦ)	Rated Torque (Nm)	Locked Rotor Torque T <sub>SL</sub> /T <sub>FL</sub>	Maximum Torque T <sub>max</sub> /T <sub>FL</sub>	Locked Rotor Current I <sub>ST</sub> /I <sub>FL</sub>	Noise Level dB (A)	Weight (kg)
	kW	HP												
YBK3-90S-6 (IE1)	0.75	1	910	2.29	2.19	2.10	69.1	0.72	7.9	2.0	2.1	4.7	64	20
YBK3-90L-6 (IE1)	1.1	1.5	910	3.17	3.04	2.90	72.2	0.73	11.5	2.0	2.1	5.3	64	23
YBK3-100L-6 (IE1)	1.5	2	920	3.99	3.90	3.65	76.2	0.75	15.6	2.0	2.1	5.5	68	30
YBK3-112M-6 (IE1)	2.2	3	940	5.56	5.32	5.09	79.1	0.76	22.4	2.0	2.1	5.5	72	38
YBK3-132S-6 (IE1)	3	4	960	7.4	7.0	6.8	81.3	0.76	29.9	2.1	2.1	6.5	76	55
YBK3-132M1-6 (IE1)	4	5.5	960	9.7	9.2	8.9	82.2	0.76	39.8	2.1	2.1	6.5	76	63
YBK3-132M2-6 (IE1)	5.5	7.5	960	12.9	12.2	11.8	84.1	0.77	55	2.1	2.1	6.5	76	70
YBK3-160M-6 (IE1)	7.5	10	970	17.1	16.2	15.7	86.3	0.77	74	2.0	2.1	6.5	80	105
YBK3-160L-6 (IE1)	11	15	970	24.4	23.3	22.4	87.7	0.78	108	2.0	2.1	6.5	80	120
YBK3-180L-6 (IE1)	15	20	970	31.5	30.0	28.9	89.2	0.81	148	2.0	2.1	7.0	80	175
YBK3-200L1-6 (IE1)	18.5	25	970	39	36.6	35.3	90.1	0.81	182	2.1	2.1	7.0	82	220
YBK3-200L2-6 (IE1)	22	30	970	44.6	42.5	40.9	90.2	0.83	217	2.0	2.1	7.0	82	235
YBK3-225M-6 (IE1)	30	40	980	59.2	56.3	54.2	91.6	0.84	293	2.0	2.1	7.0	82	300
YBK3-250M-6 (IE1)	37	50	980	71	67	65.0	92.1	0.86	361	2.1	2.1	7.0	84	370
YBK3-280S-6 (IE1)	45	60	980	86	82	79	92.6	0.86	439	2.1	2.0	7.0	85	480
YBK3-280M-6 (IE1)	55	75	980	104	100	96	93.0	0.86	536	2.1	2.0	7.0	85	535
YBK3-315S-6 (IE1)	75	100	990	141	133	129	93.7	0.86	724	2.0	2.0	6.7	90	790
YBK3-315M-6 (IE1)	90	125	990	169	162	155	94.0	0.86	869	2.0	2.0	6.7	90	880
YBK3-315L1-6 (IE1)	110	150	990	207	196	189	94.1	0.86	1062	2.0	2.0	6.7	90	997
YBK3-315L2-6 (IE1)	132	180	990	244	232	224	94.3	0.87	1274	2.0	2.0	6.7	90	1100
YBK3-355M1-6 (IE1)	160	220	990	292	275	267	94.7	0.88	1544	1.9	2.0	6.7	96	1400
YBK3-355M2-6 (IE1)	200	270	990	365	342	334	94.7	0.88	1930	1.9	2.0	6.7	96	1750
YBK3-355L-6 (IE1)	250	340	990	456	425	417	94.7	0.88	2413	1.9	2.0	6.7	96	1950

## EX D I - IE 1 - 8 POLE

Frame	Rated Output		Speed (r/min)	Full Load Current 380V (AMP)	Full Load Current 400V (AMP)	Full Load Current 415V (AMP)	Efficiency (%)	Power Factor (cosΦ)	Rated Torque (Nm)	Locked Rotor Torque T <sub>SL</sub> /T <sub>FL</sub>	Maximum Torque T <sub>max</sub> /T <sub>FL</sub>	Locked Rotor Current I <sub>ST</sub> /I <sub>FL</sub>	Noise Level dB (A)	Weight (kg)
	kW	HP												
YBK3-100L1-8 (IE1)	0.75	1	690	2.42	2.29	3.35	70.2	0.67	10.4	1.8	2.0	4	67	30
YBK3-100L2-8 (IE1)	1.1	1.5	690	3.4	3.18	4.91	72.1	0.69	15.2	1.8	2.0	5	67	35
YBK3-112M-8 (IE1)	1.5	2	690	4.4	4.2	6.7	74.2	0.70	20.8	1.8	2.0	5	69	40
YBK3-132S-8 (IE1)	2.2	3	710	5.9	5.6	9.8	79.2	0.71	29.6	1.8	2.0	6	72	52
YBK3-132M-8 (IE1)	3	4	710	7.8	7.4	13.4	80.2	0.73	40.4	1.8	2.0	6	72	60
YBK3-160M1-8 (IE1)	4	5.5	720	10.3	9.7	17.9	81.1	0.73	53	1.9	2.0	6	76	90
YBK3-160M2-8 (IE1)	5.5	7.5	720	13.6	12.9	24.5	83.2	0.74	73	1.9	2.0	6	76	105
YBK3-160L-8 (IE1)	7.5	10	720	17.7	16.8	33.5	85.7	0.75	100	1.9	2.0	6	76	120
YBK3-180L-8 (IE1)	11	15	730	25.4	24.1	49.1	87.6	0.75	144	2.0	2.0	6.5	78	150
YBK3-200L-8 (IE1)	15	20	730	34.0	32.3	66.9	88.2	0.76	196	2.0	2.0	6.6	80	215
YBK3-225S-8 (IE1)	18.5	25	730	41.0	39.0	82.6	90.1	0.76	242	1.9	2.0	6.6	80	265
YBK3-225M-8 (IE1)	22	30	740	47.3	44.8	98.2	90.6	0.78	284	1.9	2.0	6.6	80	295
YBK3-250M-8 (IE1)	30	40	740	63	60	134	91.2	0.79	387	1.9	2.0	6.5	82	380
YBK3-280S-8 (IE1)	37	50	740	78	74	165	91.6	0.79	478	1.9	2.0	6.6	83	485
YBK3-280M-8 (IE1)	45	60	740	94	89	201	92.1	0.79	581	1.9	2.0	6.6	83	570
YBK3-315S-8 (IE1)	55	75	740	111	105	245	92.9	0.81	710	1.8	2.0	6.6	88	750
YBK3-315M-8 (IE1)	75	100	740	150	143	335	93.6	0.81	968	1.8	2.0	6.2	88	810
YBK3-315L1-8 (IE1)	90	125	740	177	169	402	94.0	0.82	1162	1.8	2.0	6.4	88	1000
YBK3-315L2-8 (IE1)	110	150	740	217	206	491	94.1	0.82	1420	1.8	2.0	6.4	88	1180
YBK3-355M1-8 (IE1)	132	180	740	260	246	589	94.2	0.82	1704	1.8	2.0	6.4	95	1500
YBK3-355M2-8 (IE1)	160	220	740	314	298	714	94.3	0.82	2066	1.8	2.0	6.4	95	1800
YBK3-355L-8 (IE1)	200	270	740	387	370	893	94.7	0.83	2582	1.8	2.0	6.4	95	1900

## EXD I - IE 3 - 2 POLE

Frame	Rated Output		Speed (r/min)	Full Load Current 380V (AMP)	Full Load Current 400V (AMP)	Full Load Current 415V (AMP)	Efficiency (%)	Power Factor (cosΦ)	Rated Torque (Nm)	Locked Rotor Torque T <sub>ST</sub> /T <sub>FL</sub>	Maximum Torque T <sub>max</sub> /T <sub>FL</sub>	Locked Rotor Current I <sub>ST</sub> /I <sub>FL</sub>	Noise Level dB (A)	Weight (kg)
	kW	HP												
YBK3-80M1-2 (IE3)	0.75	1	2855	1.74	1.66	1.60	80.7	0.81	2.51	2.3	2.3	6.8	67	19
YBK3-80M2-2 (IE3)	1.1	1.5	2860	2.46	2.34	2.26	82.7	0.82	3.67	2.3	2.3	7.3	67	22
YBK3-90S-2 (IE3)	1.5	2	2865	3.22	3.06	2.95	84.2	0.84	5.00	2.3	2.3	7.6	72	30
YBK3-90L-2 (IE3)	2.2	3	2870	4.58	4.35	4.19	85.9	0.85	7.32	2.3	2.3	7.8	72	34
YBK3-100L-2 (IE3)	3	4	2890	6.16	5.85	5.64	87.1	0.85	9.9	2.3	2.3	8.1	76	41
YBK3-112M-2 (IE3)	4	5.5	2900	8.12	7.71	7.43	88.1	0.85	13.2	2.3	2.3	8.3	77	43
YBK3-132S1-2 (IE3)	5.5	7.5	2910	10.8	10.2	9.9	89.2	0.87	18.0	2.2	2.3	8.0	80	65
YBK3-132S2-2 (IE3)	7.5	10	2910	14.5	13.8	13.3	90.1	0.87	24.6	2.2	2.3	7.8	80	72
YBK3-160M1-2 (IE3)	11	15	2930	21.1	20.0	19.3	91.2	0.87	35.9	2.2	2.3	7.9	86	128
YBK3-160M2-2 (IE3)	15	20	2930	28.5	27.1	26.1	91.9	0.87	48.9	2.2	2.3	8.0	86	138
YBK3-160L-2 (IE3)	18.5	25	2935	35.0	33.2	32.0	92.4	0.87	60.2	2.2	2.3	8.1	86	154
YBK3-180M-2 (IE3)	22	30	2940	41.4	39.4	38.0	92.7	0.87	71.5	2.2	2.3	8.2	89	187
YBK3-200L1-2 (IE3)	30	40	2950	56.2	53.3	51.4	93.3	0.87	97.1	2.2	2.3	7.5	92	267
YBK3-200L2-2 (IE3)	37	50	2950	69.0	65.5	63.1	93.7	0.87	120	2.2	2.3	7.5	92	279
YBK3-225M-2 (IE3)	45	60	2970	83.6	79.4	76.6	94.0	0.87	145	2.2	2.3	7.6	92	385
YBK3-250M-2 (IE3)	55	75	2975	101	95.7	92.2	94.3	0.88	177	2.2	2.3	7.6	93	431
YBK3-280S-2 (IE3)	75	100	2975	140	133	128	94.7	0.86	241	2.0	2.3	6.9	94	581
YBK3-280M-2 (IE3)	90	125	2975	164	155	150	95.0	0.88	289	2.0	2.3	7.0	94	633
YBK3-315S-2 (IE3)	110	150	2980	197	187	181	95.2	0.89	353	2.0	2.2	7.1	96	903
YBK3-315M-2 (IE3)	132	180	2980	236	224	216	95.4	0.89	423	2.0	2.2	7.1	96	1017
YBK3-315L1-2 (IE3)	160	220	2980	283	268	259	95.6	0.90	513	2.0	2.2	7.1	99	1136
YBK3-315L2-2 (IE3)	200	250	2980	352	335	323	95.8	0.90	641	2.0	2.2	7.1	99	1277
YBK3-355M-2 (IE3)	250	340	2980	441	419	403	95.8	0.90	801	2.0	2.2	7.1	103	1637
YBK3-355L-2 (IE3)	315	430	2980	555	527	508	95.8	0.90	1009	2.0	2.2	7.1	103	1790

## EXD I - IE 3 - 4 POLE

Frame	Rated Output		Speed (r/min)	Full Load Current 380V (AMP)	Full Load Current 400V (AMP)	Full Load Current 415V (AMP)	Efficiency (%)	Power Factor (cosΦ)	Rated Torque (Nm)	Locked Rotor Torque T <sub>ST</sub> /T <sub>FL</sub>	Maximum Torque T <sub>max</sub> /T <sub>FL</sub>	Locked Rotor Current I <sub>ST</sub> /I <sub>FL</sub>	Noise Level dB (A)	Weight (kg)
	kW	HP												
YBK3-80M2-4 (IE3)	0.75	1	1420	1.87	1.77	1.71	82.5	0.74	5.04	2.3	2.3	6.5	58	25
YBK3-90S-4 (IE3)	1.1	1.5	1425	2.65	2.52	2.43	84.1	0.75	7.4	2.3	2.3	6.6	61	29
YBK3-90L-4 (IE3)	1.5	2	1425	3.56	3.38	3.26	85.3	0.75	10.1	2.3	2.3	6.9	61	34
YBK3-100L1-4 (IE3)	2.2	3	1440	4.88	4.64	4.47	86.7	0.79	14.6	2.3	2.3	7.5	64	43
YBK3-100L2-4 (IE3)	3	4	1440	6.58	6.25	6.02	87.7	0.79	19.9	2.3	2.3	7.6	64	49
YBK3-112M-4 (IE3)	4	5.5	1440	8.7	8.2	8.0	88.6	0.79	26.5	2.3	2.3	7.7	65	53
YBK3-132S-4 (IE3)	5.5	7.5	1450	11.7	11.1	10.7	89.6	0.80	36.2	2.0	2.3	7.5	71	73
YBK3-132M-4 (IE3)	7.5	10	1450	15.6	14.8	14.2	90.4	0.81	49.4	2.0	2.3	7.4	71	88
YBK3-160M-4 (IE3)	11	15	1465	22.6	21.4	20.7	91.4	0.81	71.7	2.0	2.3	7.5	75	129
YBK3-160L-4 (IE3)	15	20	1470	29.8	28.3	27.3	92.1	0.83	97	2.0	2.3	7.5	75	150
YBK3-180M-4 (IE3)	18.5	25	1470	36.1	34.3	33.1	92.6	0.84	120	2.0	2.3	7.7	76	194
YBK3-180L-4 (IE3)	22	30	1475	42.8	40.6	39.2	93	0.84	142	2.0	2.3	7.8	76	213
YBK3-200L-4 (IE3)	30	40	1475	57.3	54.4	52.5	93.6	0.85	194	2.0	2.3	7.2	79	280
YBK3-225S-4 (IE3)	37	50	1480	70.4	66.9	64.5	93.9	0.85	239	2.0	2.3	7.3	81	349
YBK3-225M-4 (IE3)	45	60	1485	85	81.1	78.2	94.2	0.85	289	2.0	2.3	7.4	81	380
YBK3-250M-4 (IE3)	55	75	1485	104	99	95	94.6	0.85	354	2.0	2.3	7.4	83	438
YBK3-280S-4 (IE3)	75	100	1485	138	131	126	95	0.87	482	2.0	2.3	7.0	86	595
YBK3-280M-4 (IE3)	90	125	1485	165	157	151	95.2	0.87	579	2.0	2.3	7.0	86	684
YBK3-315S-4 (IE3)	110	150	1485	201	191	184	95.4	0.87	707	2.0	2.2	7.0	93	954
YBK3-315M-4 (IE3)	132	180	1490	241	229	221	95.6	0.87	846	2.0	2.2	7.0	93	1050
YBK3-315L1-4 (IE3)	160	220	1490	288	274	264	95.8	0.88	1026	2.0	2.2	7.0	97	1138
YBK3-315L2-4 (IE3)	200	250	1490	360	342	329	96	0.88	1282	2.0	2.2	7.0	97	1241
YBK3-355M-4 (IE3)	250	340	1490	445	422	407	96	0.89	1602	2.0	2.2	7.0	101	1671
YBK3-355L-4 (IE3)	315	430	1490	560	532	513	96	0.89	2019	2.0	2.2	7.0	101	1934

## EXD I - IE 3 - 6 POLE

Frame	Rated Output		Speed (r/min)	Full Load Current 380V (AMP)	Full Load Current 400V (AMP)	Full Load Current 415V (AMP)	Efficiency (%)	Power Factor (cosΦ)	Rated Torque (Nm)	Locked Rotor Torque T <sub>ST</sub> /T <sub>FL</sub>	Maximum Torque T <sub>max</sub> /T <sub>FL</sub>	Locked Rotor Current I <sub>ST</sub> /I <sub>FL</sub>	Noise Level dB (A)	Weight (kg)
	kW	HP												
YBK3-90S-6 (IE3)	0.75	1	945	2.06	1.96	1.89	78.9	0.70	7.6	2.1	2.1	5.8	57	29
YBK3-90L-6 (IE3)	1.1	1.5	945	2.95	2.80	2.70	81	0.70	11.1	2.1	2.1	5.9	57	33
YBK3-100L-6 (IE3)	1.5	2	955	3.78	3.60	3.47	82.5	0.73	15.0	2.1	2.1	6.0	61	41
YBK3-112M-6 (IE3)	2.2	3	955	5.43	5.16	4.97	84.3	0.73	22.0	2.0	2.1	6.0	65	53
YBK3-132S-6 (IE3)	3	4	965	7.3	6.9	6.7	85.6	0.73	29.7	2.0	2.1	6.2	69	66
YBK3-132M1-6 (IE3)	4	5.5	965	9.5	9.0	8.7	86.8	0.73	39.6	2.0	2.1	6.8	69	72
YBK3-132M2-6 (IE3)	5.5	7.5	965	12.8	12.2	11.8	88	0.73	54	2.0	2.1	7.1	69	87
YBK3-160M-6 (IE3)	7.5	10	970	17.3	16.4	15.8	89.1	0.74	74	2.1	2.1	6.7	73	124
YBK3-160L-6 (IE3)	11	15	970	25.0	23.8	22.9	90.3	0.74	108	2.1	2.1	6.9	73	156
YBK3-180L-6 (IE3)	15	20	980	32.5	30.8	29.7	91.2	0.77	146	2.0	2.1	7.2	73	199
YBK3-200L1-6 (IE3)	18.5	25	980	38	36.4	35.1	91.7	0.80	180	2.1	2.1	7.2	76	249
YBK3-200L2-6 (IE3)	22	30	980	45.3	43.1	41.5	92.2	0.80	214	2.1	2.1	7.3	76	278
YBK3-225M-6 (IE3)	30	40	985	60.6	57.5	55.5	92.9	0.81	291	2.0	2.1	7.1	76	317
YBK3-250M-6 (IE3)	37	50	985	72	68	65.7	93.3	0.84	359	2.1	2.1	7.1	78	418
YBK3-280S-6 (IE3)	45	60	990	87	83	80	93.7	0.84	434	2.1	2.0	7.2	80	565
YBK3-280M-6 (IE3)	55	75	990	106	100	97	94.1	0.84	531	2.1	2.0	7.2	80	619
YBK3-315S-6 (IE3)	75	100	990	143	136	131	94.6	0.84	723	2.0	2.0	6.7	85	855
YBK3-315M-6 (IE3)	90	125	990	172	163	157	94.9	0.84	868	2.0	2.0	6.7	85	1039
YBK3-315L1-6 (IE3)	110	150	990	209	199	192	95.1	0.84	1061	2.0	2.0	6.7	85	1190
YBK3-315L2-6 (IE3)	132	180	990	247	235	226	95.4	0.85	1273	2.0	2.0	6.7	85	1331
YBK3-355S-6 (IE3)	160	220	990	292	278	268	95.6	0.87	1543	2.0	2.0	6.7	92	1590
YBK3-355M2-6 (IE3)	200	270	990	365	346	334	95.8	0.87	1929	2.0	2.0	6.7	92	1674
YBK3-355L2-6 (IE3)	250	340	990	456	433	417	95.8	0.87	2412	2.0	2.0	6.7	92	1767

## EXD I - IE 3 - 8 POLE

Frame	Rated Output		Speed (r/min)	Full Load Current 380V (AMP)	Full Load Current 400V (AMP)	Full Load Current 415V (AMP)	Efficiency (%)	Power Factor (cosΦ)	Rated Torque (Nm)	Locked Rotor Torque T <sub>ST</sub> /T <sub>FL</sub>	Maximum Torque T <sub>max</sub> /T <sub>FL</sub>	Locked Rotor Current I <sub>ST</sub> /I <sub>FL</sub>	Noise Level dB (A)	Weight (kg)
	kW	HP												
YBK3-100L1-8 (IE3)	0.75	1	695	2.27	2.15	3.35	75	0.67	10.3	1.8	2.0	6.2	59	40
YBK3-100L2-8 (IE3)	1.1	1.5	695	3.12	2.96	4.91	77.7	0.69	15.1	1.8	2.0	6.2	59	42
YBK3-112M-8 (IE3)	1.5	2	695	4.09	3.88	6.69	79.7	0.70	20.6	1.8	2.0	6.7	61	45
YBK3-132S-8 (IE3)	2.2	3	715	5.75	5.46	9.82	81.9	0.71	29.4	1.8	2.0	6.7	64	60
YBK3-132M-8 (IE3)	3	4	715	7.48	7.10	13.39	83.5	0.73	40.1	1.8	2.0	6.9	64	70
YBK3-160M1-8 (IE3)	4	5.5	725	9.8	9.33	17.85	84.8	0.73	52.7	1.9	2.0	6.9	68	100
YBK3-160M2-8 (IE3)	5.5	7.5	725	13.1	12.4	24.5	86.2	0.74	72.4	1.9	2.0	6.9	68	120
YBK3-160L-8 (IE3)	7.5	10	725	17.4	16.5	33.5	87.3	0.75	98.8	1.9	2.0	6.6	68	130
YBK3-180L-8 (IE3)	11	15	735	25.2	23.9	49.1	88.6	0.75	142.9	2.0	2.0	6.6	70	185
YBK3-200L-8 (IE3)	15	20	735	33.5	31.8	66.9	89.6	0.76	195	2.0	2.0	6.8	73	230
YBK3-225S-8 (IE3)	18.5	25	735	41.0	39.0	82.6	90.1	0.76	240	1.9	2.0	6.8	73	270
YBK3-225M-8 (IE3)	22	30	745	47.3	44.9	98.2	90.6	0.78	282	1.9	2.0	7	73	300
YBK3-250M-8 (IE3)	30	40	745	63.2	60.0	133.9	91.3	0.79	385	1.9	2.0	6.7	75	390
YBK3-280S-8 (IE3)	37	50	745	77.5	73.6	165.1	91.8	0.79	474	1.9	2.0	6.7	76	510
YBK3-280M-8 (IE3)	45	60	745	93.9	89.2	200.8	92.2	0.79	577	1.9	2.0	6.7	76	560
YBK3-315S-8 (IE3)	55	75	745	111.5	106.0	245.5	92.5	0.81	705	1.8	2.0	6.8	82	770
YBK3-315M-8 (IE3)	75	100	745	151	144	335	93.1	0.81	961	1.8	2.0	6.3	82	1000
YBK3-315L1-8 (IE3)	90	125	745	179	170	402	93.4	0.82	1154	1.8	2.0	6.4	82	1060
YBK3-315L2-8 (IE3)	110	150	745	217	206	491	93.794	0.82	1410	1.8	2.0	6.4	82	1160
YBK3-355S-8 (IE3)	132	180	745	259	246	589	94.3	0.82	1692	1.8	2.0	6.5	89	1680
YBK3-355M-8 (IE3)	160	220	745	314	299	714	94.3	0.82	2051	1.8	2.0	6.6	89	1760
YBK3-355L2-8 (IE3)	200	270	745	392	372	893	94.6	0.82	2563	1.8	2.0	6.6	89	1850

# YB SERIES

CHINA CERTIFIED EXPLOSION PROOF MOTORS

Achieve cost-effective safety in China's hazardous locations with Elektrim's locally certified explosion-proof motors. Our explosion proof range combines superior durability and design for the most demanding applications, delivering unwavering performance and an extended operational lifespan at a competitive price.

## MODEL DATA

### FEATURES

- CERTIFIED BY CHINA CERTIFICATION BODY
- UP TO 315KW
- UP TO 355 FRAME
- UP TO 8P DESIGN
- CUSTOMIZABLE



### CB23.7500~7513 CERTIFICATE

Our China-certified explosion-proof motors provide robust protection for a wide spectrum of hazardous locations, meeting stringent requirements up to the highest levels. This ensures versatile and compliant solutions for diverse applications with varying risks and temperature ratings.

# MA SERIES

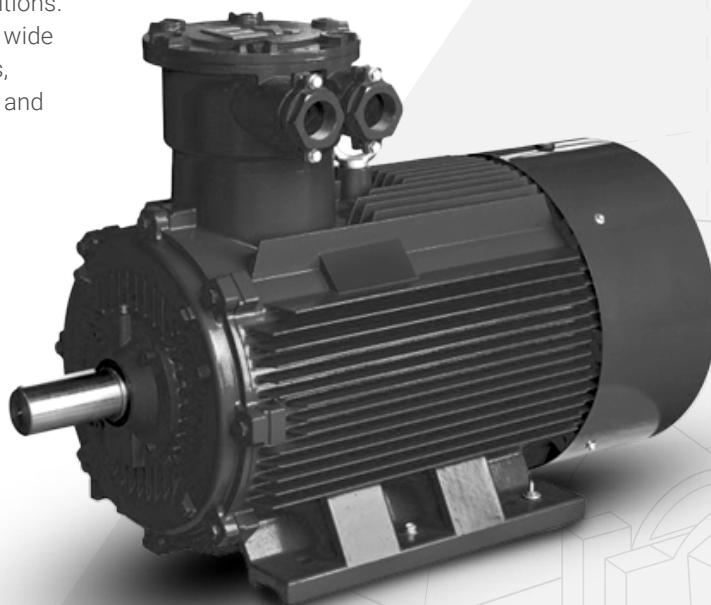
## CHINA CERTIFIED EXPLOSION PROOF MOTORS

For the coal mine industry, our China Ex certified explosion-proof motors feature a strong, robust, and durable frame designed for exceptional longevity in demanding conditions. These motors provide comprehensive protection for a wide range of hazardous locations within mining operations, meeting stringent safety regulations to ensure reliable and safe performance.

### MODEL DATA

#### FEATURES

- CERTIFIED BY CHINA CERTIFICATION BODY
- UP TO 315KW
- UP TO 355 FRAME
- UP TO 8P DESIGN
- CUSTOMIZABLE

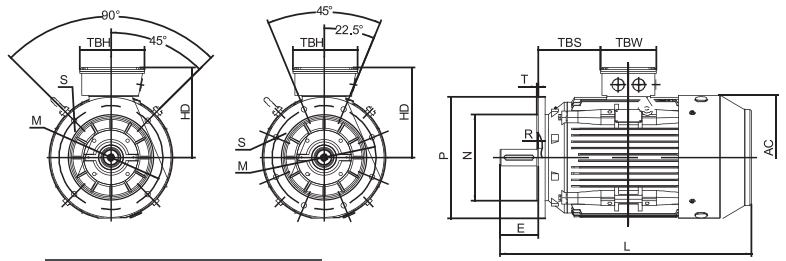


#### MAI220951 - MAI221018 CERTIFICATE

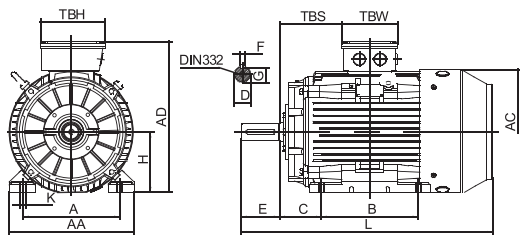
Tailored for the coal mine industry, our China Ex certified explosion-proof motors deliver robust protection for the broad spectrum of hazardous locations present in mining operations, adhering to stringent safety regulations up to the most demanding levels. This ensures versatile and compliant solutions specifically designed for the varying risks and temperature ratings inherent in coal mining.

# DIMENSIONAL DRAWING

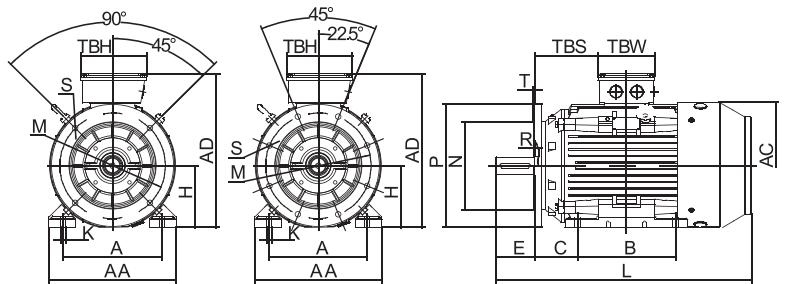
## EX EC SERIES



EX EC B5 MOUNTING



EX EC B3 MOUNTING



EX EC B35 MOUNTING

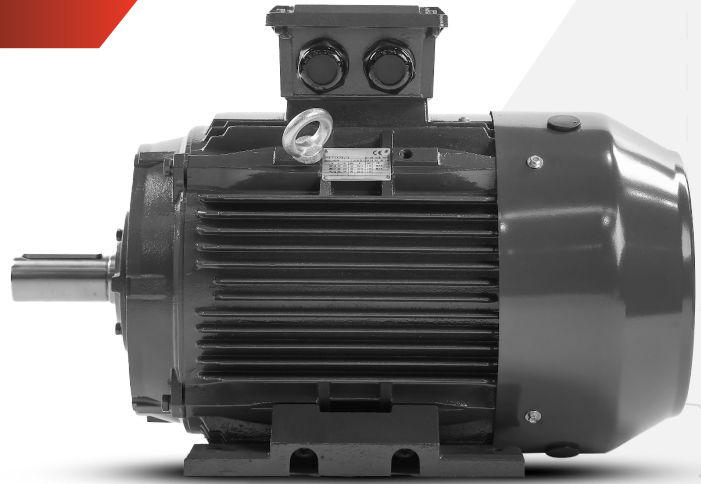
Frame Size	Pole	Mounting dimension (mm)													Over all dimensions (mm)									
		H	A	B	C	N	M	P	S	T	D	E	F	G	K	AA	AD	HD	AC	L	TBS	TBW	TBH	KK
80M	2,4,6,8	80	125	100	50	Φ130	Φ165	Φ200	4×Φ12	3.5	Φ19	40	6	15.5	Φ9	154	215	135	Φ158	290	41.5	117	117	1-M20X1.5
90S	2,4,6,8	90	140	100	56	Φ130	Φ165	Φ200	4×Φ12	3.5	Φ24	50	8	20	Φ10	178	231	141	Φ176	320	47.5	117	117	1-M20X1.5
90L	2,4,6,8	90	140	125	56	Φ130	Φ165	Φ200	4×Φ12	3.5	Φ24	50	8	20	Φ10	178	231	141	Φ176	345	60	117	117	1-M20X1.5
100L	2,4,6,8	100	160	140	63	Φ180	Φ215	Φ250	4×Φ15	4	Φ28	60	8	24	Φ12	203	251	151	Φ199	385	74.5	117	117	1-M20X1.5
112M	2,4,6,8	112	190	140	70	Φ180	Φ215	Φ250	4×Φ15	4	Φ28	60	8	24	Φ12	231	292	180	Φ220	405	70.5	139	139	2-M25X1.5
132S	2,4,6,8	132	216	140	89	Φ230	Φ265	Φ300	4×Φ15	4	Φ38	80	10	33	Φ12	263	332	200	Φ259	467	59	139	139	2-M25X1.5
132M	2,4,6,8	132	216	178	89	Φ230	Φ265	Φ300	4×Φ15	4	Φ38	80	10	33	Φ12	263	332	200	Φ259	505	59	139	139	2-M25X1.5
160M	2,4,6,8	160	254	210	108	Φ250	Φ300	Φ350	4×Φ19	5	Φ42	110	12	37	Φ15	316	414	254	Φ313	605	84	176	201	2-M32X1.5
160L	2,4,6,8	160	254	254	108	Φ250	Φ300	Φ350	4×Φ19	5	Φ42	110	12	37	Φ15	316	414	254	Φ313	650	84	176	201	2-M32X1.5
180M	2,4,6,8	180	279	241	121	Φ250	Φ300	Φ350	4×Φ19	5	Φ48	110	14	42.5	Φ15	354	445	265	Φ360	687	152	176	201	2-M32X1.5
180L	2,4,6,8	180	279	279	121	Φ250	Φ300	Φ350	4×Φ19	5	Φ48	110	14	42.5	Φ15	354	445	265	Φ360	725	173	176	201	2-M32X1.5
200L	2,4,6,8	200	318	305	133	Φ300	Φ350	Φ400	4×Φ19	5	Φ55	110	16	49	Φ19	393	510	310	Φ399	768.5	184	202	251	2-M40X1.5
225S	4,8	225	356	286	149	Φ350	Φ400	Φ450	8×Φ19	5	Φ60	140	18	53	Φ19	440	560	335	Φ459	810	191	202	251	2-M50X1.5
225M	2	225	356	311	149	Φ350	Φ400	Φ450	8×Φ19	5	Φ55	110	16	49	Φ19	440	560	335	Φ459	805	203.5	202	251	2-M50X1.5
	4,6,8	225	356	311	149	Φ350	Φ400	Φ450	8×Φ19	5	Φ60	140	18	53	Φ19	440	560	335	Φ459	835	203.5	202	251	2-M50X1.5
250M	2	250	406	349	168	Φ450	Φ500	Φ550	8×Φ19	5	Φ60	140	18	53	Φ24	484	620	370	Φ506	915	225	234	278	2-M50X1.5
	4,6,8	250	406	349	168	Φ450	Φ500	Φ550	8×Φ19	5	Φ65	140	18	58	Φ24	484	620	370	Φ506	915	225	234	278	2-M50X1.5
280S	2	280	457	368	190	Φ450	Φ500	Φ550	8×Φ19	5	Φ65	140	18	58	Φ24	560	695	415	Φ559	984	257	234	278	2-M50X1.5
	4,6,8	280	457	368	190	Φ450	Φ500	Φ550	8×Φ19	5	Φ75	140	20	67.5	Φ24	560	695	415	Φ559	984	257	234	278	2-M50X1.5
280M	2	280	457	419	190	Φ450	Φ500	Φ550	8×Φ19	5	Φ65	140	18	58	Φ24	560	695	415	Φ559	1035	267	265	300	2-M50X1.5
	4,6,8	280	457	419	190	Φ450	Φ500	Φ550	8×Φ19	5	Φ75	140	20	67.5	Φ24	560	695	415	Φ559	1035	267	265	300	2-M50X1.5
315S	2	315	508	406	216	Φ550	Φ600	Φ660	8×Φ24	6	Φ65	140	18	58	Φ28	628	825	510	Φ682	1205	190	310	370	2-M63X1.5
	4,6,8,10	315	508	406	216	Φ550	Φ600	Φ660	8×Φ24	6	Φ80	170	22	71	Φ28	628	825	510	Φ682	1235	190	310	370	2-M63X1.5
315M	2	315	508	457	216	Φ550	Φ600	Φ660	8×Φ24	6	Φ65	140	18	58	Φ28	628	825	510	Φ682	1355	190	310	370	2-M63X1.5
	4,6,8,10	315	508	457	216	Φ550	Φ600	Φ660	8×Φ24	6	Φ80	170	22	71	Φ28	628	825	510	Φ682	1385	190	310	370	2-M63X1.5
315L	2	315	508	508	216	Φ550	Φ600	Φ660	8×Φ24	6	Φ65	140	18	58	Φ28	628	825	510	Φ682	1355	190	310	370	2-M63X1.5
	4,6,8,10	315	508	508	216	Φ550	Φ600	Φ660	8×Φ24	6	Φ80	170	22	71	Φ28	628	825	510	Φ682	1385	190	310	370	2-M63X1.5
355M	2	355	610	560	254	Φ680	Φ740	Φ800	8×Φ24	6	Φ75	140	20	67.5	Φ28	740	1010	655	Φ698	1495	122	365	420	2-M63X1.5
	4,6,8,10	355	610	560	254	Φ680	Φ740	Φ800	8×Φ24	6	Φ95/Φ100	170/210	25/28	86/90	Φ28	740	1010	655	Φ698	1525/1565	122	365	420	2-M63X1.5
355L	2	355	610	630	254	Φ680	Φ740	Φ800	8×Φ24	6	Φ75	140	20	67.5	Φ28	740	1010	655	Φ698	1495	122	365	420	2-M63X1.5
	4,6,8,10	355	610	630	254	Φ680	Φ740	Φ800	8×Φ24	6	Φ95/Φ100	170/210	25/28	86/90	Φ28	740	1010	655	Φ698	1525/1565	122	365	420	2-M63X1.5

Please Note: The technical information contained within this document reflects current engineering design and is subject to modification without prior notification. For the most precise and current technical specifications, kindly consult your sales representative.

# EX EC SERIES

## ATEX CERTIFIED ZONE 2 EX EC MOTORS

Built with good durability and a practical design, Elektrim's explosion-proof motors are suitable for typical applications in environments with potentially explosive atmospheres. These robust motors deliver reliable safety and performance, capable of withstanding standard industrial conditions while providing dependable power and a reasonable operational lifespan, aligning with Zone 2 Ex ec specifications.



## MODEL DATA

### FEATURES

- CERTIFIED BY EUROPEAN CERTIFICATION BODY
- UP TO 315KW
- UP TO 355 FRAME
- UP TO 8P DESIGN
- CUSTOMIZABLE



### 10.16.1404 CERTIFICATE

Covering zone 2 IIC T4 and zone 22 IIIC T125°C, this certification ensures versatile suitability for diverse applications in hazardous areas where explosive gas or dust atmospheres are less frequent. It also accommodates various gas and dust groups and temperature ratings.

## EXEC - IE 1 - 2 POLE

Frame	Rated Output		Speed (r/min)	Full Load Current 380V (AMP)	Full Load Current 400V (AMP)	Full Load Current 415V (AMP)	Efficiency (%)	Power Factor (cosΦ)	Rated Torque (Nm)	Locked Rotor Torque T <sub>st</sub> /T <sub>fl</sub>	Maximum Torque T <sub>max</sub> /T <sub>fl</sub>	Locked Rotor Current I <sub>st</sub> /I <sub>fl</sub>	Noise Level dB (A)	Weight (kg)
	kW	HP												
T1C 801-2	0.75	1	2870	1.93	1.84	1.77	73.7	0.80	2.49	2.1	2.5	5.7	67	14
T1C 802-2	1.1	1.5	2870	2.55	2.42	2.33	79.0	0.83	3.66	2.6	2.8	6.5	67	15
T1C 90S-2	1.5	2	2880	3.43	3.26	3.14	80.0	0.83	4.97	2.3	2.8	6.6	72	19
T1C 90L-2	2.2	3	2880	4.77	4.53	4.36	83.5	0.84	7.29	2.6	2.7	7.1	72	22
T1C 100L-2	3	4	2900	6.54	6.21	5.99	83.0	0.84	9.9	2.7	3.2	7.7	76	30
T1C 112M-2	4	5.5	2910	8.22	7.81	7.53	85.0	0.87	13.1	2.8	3.6	9.2	77	38
T1C 132S1-2	5.5	7.5	2900	10.9	10.3	9.9	86.5	0.89	18.1	2.1	2.9	7.8	80	54
T1C 132S2-2	7.5	10	2890	14.8	14.1	13.6	88.4	0.87	24.8	2.7	3.2	8.2	80	61
T1C 160M1-2	11	15	2945	21.2	20.1	19.4	87.6	0.90	35.7	2.2	2.3	8.5	86	103
T1C 160M2-2	15	20	2945	29.2	27.7	26.7	88.7	0.88	48.6	2.2	2.3	9.0	86	117
T1C 160L-2	18.5	25	2945	37.0	35.2	33.9	89.3	0.85	60.0	2.2	2.3	10.0	86	136
T1C 180M-2	22	30	2945	41.3	39.2	37.8	89.9	0.90	71.3	2.2	2.3	8.0	89	159
T1C 200L1-2	30	40	2950	55.8	53.0	51.1	90.7	0.90	97.1	2.0	2.3	7.5	92	208
T1C 200L2-2	37	50	2950	68.5	65.1	62.7	91.2	0.90	120	2.0	2.3	7.5	92	229
T1C 225M-2	45	60	2955	82.8	78.7	75.9	91.7	0.90	145	2.0	2.3	7.5	92	288
T1C 250M-2	55	75	2970	101	95.8	92.3	92.1	0.90	177	2.0	2.3	9.0	93	377
T1C 280S-2	75	100	2970	137	130	125	92.7	0.90	241	2.0	2.3	9.0	94	485
T1C 280M-2	90	125	2970	163	155	150	93.0	0.90	289	2.0	2.3	9.0	94	539
T1C 315S-2	110	150	2970	199	189	182	93.3	0.90	354	2.0	2.2	7.0	96	798
T1C 315M-2	132	180	2970	236	224	216	93.5	0.91	424	2.0	2.2	7.0	96	917
T1C 315L1-2	160	220	2970	288	274	264	93.8	0.90	515	2.0	2.2	7.0	99	981
T1C 315L2-2	200	250	2970	359	341	329	94.0	0.90	643	2.0	2.2	7.0	99	1038
T1C 355M1-2	220	300	2980	395	375	362	94.0	0.90	705	2.0	2.2	7.0	103	1442
T1C 355M2-2	250	340	2980	449	427	411	94.0	0.90	801	2.0	2.2	7.0	103	1504
T1C 355L1-2	280	370	2980	503	478	460	94.0	0.90	897	2.0	2.2	7.0	103	1604
T1C 355L2-2	315	430	2980	566	537	518	94.0	0.90	1010	2.0	2.2	7.0	103	1679

## EXEC - IE 1 - 4 POLE

Frame	Rated Output		Speed (r/min)	Full Load Current 380V (AMP)	Full Load Current 400V (AMP)	Full Load Current 415V (AMP)	Efficiency (%)	Power Factor (cosΦ)	Rated Torque (Nm)	Locked Rotor Torque T <sub>st</sub> /T <sub>fl</sub>	Maximum Torque T <sub>max</sub> /T <sub>fl</sub>	Locked Rotor Current I <sub>st</sub> /I <sub>fl</sub>	Noise Level dB (A)	Weight (kg)
	kW	HP												
T1C 802-4	0.75	1	1410	1.96	1.90	1.79	76.5	0.76	5.08	2.1	2.3	4.8	58	15
T1C 90S-4	1.1	1.5	1410	2.80	2.70	2.56	77.5	0.77	7.5	2.5	2.7	5.5	61	19
T1C 90L-4	1.5	2	1410	3.62	3.44	3.31	80.8	0.78	10.2	2.9	3.0	6.2	61	22
T1C 100L1-4	2.2	3	1430	5.13	4.87	4.70	82.5	0.79	14.7	2.2	2.7	6.3	64	30
T1C 100L2-4	3	4	1430	6.58	6.25	6.02	84.5	0.82	20.0	2.5	2.8	6.7	64	33
T1C 112M-4	4	5.5	1440	8.8	8.3	8.0	85.5	0.81	26.5	2.9	3.0	7.3	65	42
T1C 132S-4	5.5	7.5	1450	11.8	11.3	10.8	86.0	0.82	36.2	1.8	2.9	7.1	71	58
T1C 132M-4	7.5	10	1460	15.4	14.6	14.1	88.3	0.84	49.0	2.4	2.7	8.4	71	69
T1C 160M-4	11	15	1465	22.7	21.6	20.8	87.6	0.84	71.7	2.2	2.6	8.5	75	106
T1C 160L-4	15	20	1465	29.5	28.1	27.0	88.7	0.87	98	2.2	2.6	8.0	75	126
T1C 180M-4	18.5	25	1465	35.8	34.0	32.8	89.3	0.88	121	2.2	2.6	8.0	76	150
T1C 180L-4	22	30	1465	42.2	40.1	38.7	89.9	0.88	143	2.2	2.6	8.0	76	162
T1C 200L-4	30	40	1475	59.1	56.2	54.1	90.7	0.85	194	2.2	2.6	8.0	79	223
T1C 225S-4	37	50	1480	72.5	68.9	66.4	91.2	0.85	239	2.2	2.6	7.0	81	281
T1C 225M-4	45	60	1480	88	83.3	80.3	91.7	0.85	290	2.2	2.6	7.0	81	303
T1C 250M-4	55	75	1480	106	100	97	92.1	0.86	355	2.2	2.6	8.0	83	389
T1C 280S-4	75	100	1480	138	131	127	92.7	0.89	484	2.2	2.6	9.0	86	525
T1C 280M-4	90	125	1480	163	155	150	93.0	0.90	581	2.2	2.6	9.0	86	596
T1C 315S-4	110	150	1480	199	189	182	93.3	0.90	710	2.0	2.3	7.0	93	783
T1C 315M-4	132	180	1480	238	226	218	93.5	0.90	852	2.0	2.3	7.0	93	887
T1C 315L1-4	160	220	1480	288	274	264	93.8	0.90	1032	2.0	2.3	7.0	97	958
T1C 315L2-4	200	250	1480	359	341	329	94.0	0.90	1291	2.0	2.3	7.0	97	1059
T1C 355M1-4	220	300	1480	400	380	366	94.0	0.89	1420	2.0	2.3	7.0	101	1317
T1C 355M2-4	250	340	1480	454	431	416	94.0	0.89	1613	2.0	2.3	7.0	101	1395
T1C 355L1-4	280	370	1480	509	483	466	94.0	0.89	1807	2.0	2.3	7.0	101	1467
T1C 355L2-4	315	430	1485	566	537	518	94.0	0.90	2026	2.0	2.3	7.0	101	1530

## EXEC - IE 1 - 6 POLE

Frame	Rated Output		Speed (r/min)	Full Load Current 380V (AMP)	Full Load Current 400V (AMP)	Full Load Current 415V (AMP)	Efficiency (%)	Power Factor (cosΦ)	Rated Torque (Nm)	Locked Rotor Torque T <sub>ST</sub> /T <sub>FL</sub>	Maximum Torque T <sub>max</sub> /T <sub>FL</sub>	Locked Rotor Current I <sub>ST</sub> /I <sub>FL</sub>	Noise Level dB (A)	Weight (kg)
	kW	HP												
T1C 90S-6	0.75	1	940	2.34	2.23	2.15	71.5	0.68	7.6	1.8	2.2	4.1	57	19
T1C 90L-6	1.1	1.5	930	3.45	3.27	3.15	73.5	0.66	11.3	1.9	2.3	4.1	57	22
T1C 100L-6	1.5	2	940	4.17	3.96	3.82	77.0	0.71	15.2	1.7	2.2	4.5	61	29
T1C 112M-6	2.2	3	945	6.11	5.80	5.59	79.3	0.69	22.2	1.9	2.3	4.8	65	37
T1C 132S-6	3	4	965	7.2	6.8	6.6	84.4	0.75	29.7	1.7	2.2	5.6	69	53
T1C 132M1-6	4	5.5	965	9.9	9.4	9.0	84.5	0.73	39.6	2.0	2.6	5.9	69	61
T1C 132M2-6	5.5	7.5	965	13.5	12.8	12.4	86.0	0.72	54	2.1	2.4	5.8	69	70
T1C 160M-6	7.5	10	965	17.7	16.8	16.2	84.7	0.76	74	2.0	2.5	7.5	73	118
T1C 160L-6	11	15	970	25.5	24.2	23.3	86.4	0.76	108	2.0	2.5	7.5	73	147
T1C 180L-6	15	20	970	31.3	29.7	28.7	87.7	0.83	148	1.8	2.2	8.0	73	164
T1C 200L1-6	18.5	25	970	36	34.2	33.0	88.6	0.88	182	1.8	2.2	8.0	76	207
T1C 200L2-6	22	30	970	42.6	40.5	39.0	89.2	0.88	217	1.8	2.2	8.0	76	225
T1C 225M-6	30	40	975	58.1	55.2	53.2	90.2	0.87	294	1.8	2.2	7.0	76	285
T1C 250M-6	37	50	980	74	70	67.5	90.8	0.84	361	2.0	2.2	7.5	78	361
T1C 280S-6	45	60	980	88	84	81	91.4	0.85	439	2.0	2.2	7.5	80	429
T1C 280M1-6	55	75	980	106	100	97	91.9	0.86	536	2.0	2.2	7.5	80	495
T1C 315S-6	75	100	985	143	136	131	92.6	0.86	727	2.0	2.3	7.0	85	731
T1C 315M-6	90	125	985	171	163	157	92.9	0.86	873	2.0	2.3	7.0	85	829
T1C 315L1-6	110	150	985	208	198	191	93.3	0.86	1067	2.0	2.3	7.0	85	904
T1C 315L2-6	132	180	985	249	237	228	93.5	0.86	1280	2.0	2.3	7.0	85	971
T1C 355M1-6	160	220	990	291	277	267	93.8	0.89	1543	2.0	2.2	8.0	92	1419
T1C 355M2-6	200	250	990	359	341	329	94.0	0.90	1929	2.0	2.2	8.0	92	1571
T1C 355L-6	250	300	990	449	427	411	94.0	0.90	2412	2.0	2.2	8.0	92	1780

## EXEC - IE 1 - 8 POLE

Frame	Rated Output		Speed (r/min)	Full Load Current 380V (AMP)	Full Load Current 400V (AMP)	Full Load Current 415V (AMP)	Efficiency (%)	Power Factor (cosΦ)	Rated Torque (Nm)	Locked Rotor Torque T <sub>ST</sub> /T <sub>FL</sub>	Maximum Torque T <sub>max</sub> /T <sub>FL</sub>	Locked Rotor Current I <sub>ST</sub> /I <sub>FL</sub>	Noise Level dB (A)	Weight (kg)
	kW	HP												
T1C 100L1-8	0.75	1	685	2.57	2.44	2.35	68.2	0.65	10.5	1.9	2.2	3.6	59	27
T1C 100L2-8	1.1	1.5	700	3.5	3.27	3.15	73.5	0.66	15.0	1.8	2.4	4.2	59	30
T1C 112M-8	1.5	2	700	4.7	4.4	4.3	73.8	0.66	20.5	1.7	2.1	4.0	61	36
T1C 132S-8	2.2	3	715	6.0	5.7	5.5	77.3	0.72	29.4	1.8	2.1	4.5	64	54
T1C 132M-8	3	4	715	7.9	7.5	7.3	79.8	0.72	40.1	2.0	2.3	4.9	64	63
T1C 160M1-8	4	5.5	730	11.7	11.1	10.7	80.0	0.65	52	1.6	2.2	6.0	68	90
T1C 160M2-8	5.5	7.5	730	15.4	14.6	14.1	83.5	0.65	72	1.6	2.2	6.0	68	98
T1C 160L-8	7.5	10	730	20.6	19.6	18.9	85.0	0.65	98	1.6	2.2	6.0	68	116
T1C 180L-8	11	15	730	25.3	24.1	23.2	88.0	0.75	144	2.0	2.0	6.0	70	162
T1C 200L-8	15	20	730	31.2	29.7	28.6	89.0	0.82	196	1.6	2.2	7.0	73	207
T1C 225S-8	18.5	25	735	39.0	37.1	35.7	90.0	0.80	240	1.6	2.0	6.0	73	261
T1C 225M-8	22	30	735	46.2	43.9	42.3	90.5	0.80	286	1.6	2.0	6.0	73	287
T1C 250M-8	30	40	735	63	60	57	91.0	0.80	390	1.6	1.8	6.0	75	373
T1C 280S-8	37	50	740	79	75	72	91.5	0.78	478	1.9	2.0	6.5	76	449
T1C 280M-8	45	60	740	95	91	87	92.0	0.78	581	1.9	2.0	6.5	76	507
T1C 315S-8	55	75	740	113	107	103	92.8	0.80	710	2.0	2.0	6.5	82	780
T1C 315M-8	75	100	740	153	146	140	93.0	0.80	968	2.0	2.0	6.5	82	939
T1C 315L1-8	90	125	740	182	173	167	93.8	0.8	1162	2.0	2.0	6.5	82	1021
T1C 315L2-8	110	150	740	222	211	204	94.0	0.8	1420	2.0	2.0	6.5	82	1120
T1C 355M1-8	132	180	740	268	254	245	93.7	0.80	1704	1.8	2.0	6.5	90	1412
T1C 355M2-8	160	220	740	323	306	295	94.2	0.80	2065	1.8	2.0	6.5	90	1499
T1C 355L-8	200	250	740	402	382	368	94.5	0.80	2581	1.8	2.0	6.5	90	1637

## EXEC - IE 3 - 2 POLE

Frame	Rated Output		Speed (r/min)	Full Load Current 380V (AMP)	Full Load Current 400V (AMP)	Full Load Current 415V (AMP)	Efficiency (%)	Power Factor (cosΦ)	Rated Torque (Nm)	Locked Rotor Torque T <sub>SL</sub> /T <sub>FL</sub>	Maximum Torque T <sub>max</sub> /T <sub>FL</sub>	Locked Rotor Current I <sub>ST</sub> /I <sub>FL</sub>	Noise Level dB (A)	Weight (kg)
	kW	HP												
T3C 801-2	0.75	1	2890	1.74	1.66	1.60	80.7	0.81	2.48	2.5	2.8	7.4	62	14
T3C 802-2	1.1	1.5	2900	2.46	2.34	2.26	82.7	0.82	3.62	3.2	3.2	7.8	62	16
T3C 90S-2	1.5	2	2900	3.30	3.14	3.02	84.2	0.82	4.94	3.5	3.7	8.3	67	21
T3C 90L-2	2.2	3	2910	4.63	4.40	4.24	85.9	0.84	7.22	3.3	3.7	9.0	67	24
T3C 100L-2	3	4	2910	5.88	5.59	5.38	87.1	0.89	9.8	3.2	3.6	9.0	74	34
T3C 112M-2	4	5.5	2920	7.58	7.20	6.94	88.1	0.91	13.1	3.4	3.9	9.5	77	42
T3C 132S1-2	5.5	7.5	2930	10.5	10.0	9.6	89.2	0.89	17.9	3.2	4.0	9.5	79	61
T3C 132S2-2	7.5	10	2930	13.7	13.1	12.6	90.1	0.92	24.4	2.6	3.6	9.5	79	68
T3C 160M1-2	11	15	2930	20.4	19.3	18.6	91.2	0.90	35.8	2.5	3.0	9.5	81	109
T3C 160M2-2	15	20	2940	27.6	26.2	25.2	91.9	0.90	48.7	2.5	3.0	8.5	81	125
T3C 160L-2	18.5	25	2940	33.4	31.8	30.6	92.4	0.91	60.1	2.5	3.0	9.5	81	141
T3C 180M-2	22	30	2945	40.5	38.5	37.1	92.7	0.89	71.3	2.5	3.0	9.0	83	164
T3C 200L1-2	30	40	2945	54.9	52.1	50.3	93.3	0.89	97.2	2.5	2.5	8.5	84	226
T3C 200L2-2	37	50	2945	67.4	64.0	61.7	93.7	0.89	120	2.5	2.5	8.5	84	244
T3C 225M-2	45	60	2950	79.9	75.9	73.2	94.0	0.91	146	2.5	2.5	8.5	86	312
T3C 250M-2	55	75	2960	99	93.5	90.2	94.3	0.90	177	2.5	2.6	9.6	89	396
T3C 280S-2	75	100	2960	132	126	121	94.7	0.91	242	2.5	2.6	8.8	91	531
T3C 280M-2	90	125	2960	158	150	145	95.0	0.91	290	2.5	2.6	8.9	91	604
T3C 315S-2	110	150	2960	195	185	179	95.2	0.90	355	2.0	2.3	8.5	92	833
T3C 315M-2	132	180	2960	234	222	214	95.4	0.90	426	2.0	2.3	8.5	92	976
T3C 315L1-2	160	220	2960	283	268	259	95.6	0.90	516	2.0	2.3	8.5	92	1045
T3C 315L2-2	200	250	2960	352	335	323	95.8	0.90	645	2.0	2.3	8.5	92	1138
T3C 355M1-2	220	300	2960	415	395	380	95.8	0.84	709	2.0	2.3	6.5	97	1501
T3C 355M2-2	250	340	2960	472	448	432	95.8	0.84	806	2.0	2.3	6.5	97	1538
T3C 355L1-2	280	370	2960	529	502	484	95.8	0.84	903	2.0	2.3	6.5	97	1679
T3C 355L2-2	315	430	2960	588	558	538	95.8	0.85	1016	2.0	2.3	6.5	97	1765

## EXEC - IE 3 - 4 POLE

Frame	Rated Output		Speed (r/min)	Full Load Current 380V (AMP)	Full Load Current 400V (AMP)	Full Load Current 415V (AMP)	Efficiency (%)	Power Factor (cosΦ)	Rated Torque (Nm)	Locked Rotor Torque T <sub>SL</sub> /T <sub>FL</sub>	Maximum Torque T <sub>max</sub> /T <sub>FL</sub>	Locked Rotor Current I <sub>ST</sub> /I <sub>FL</sub>	Noise Level dB (A)	Weight (kg)
	kW	HP												
T3C 802-4	0.75	1	1430	1.89	1.80	1.73	82.5	0.73	5.01	2.7	2.8	6.1	56	17
T3C 90S-4	1.1	1.5	1440	2.69	2.55	2.46	84.1	0.74	7.3	3.7	3.8	7.7	59	21
T3C 90L-4	1.5	2	1440	3.47	3.30	3.18	85.3	0.77	9.9	3.7	3.6	8.0	59	26
T3C 100L1-4	2.2	3	1450	4.70	4.47	4.31	86.7	0.82	14.5	2.9	3.5	8.0	64	34
T3C 100L2-4	3	4	1450	6.66	6.33	6.10	87.7	0.78	19.8	3.3	3.4	8.1	64	38
T3C 112M-4	4	5.5	1450	8.4	8.0	7.7	88.6	0.82	26.3	3.1	3.7	8.6	65	45
T3C 132S-4	5.5	7.5	1460	11.1	10.5	10.2	89.6	0.84	36.0	2.3	3.5	9.0	71	64
T3C 132M-4	7.5	10	1460	15.0	14.3	13.7	90.4	0.84	49.0	2.6	3.4	8.9	71	76
T3C 160M-4	11	15	1450	21.8	20.7	19.9	91.4	0.84	72.4	2.5	3.0	9.0	73	118
T3C 160L-4	15	20	1450	28.8	27.3	26.3	92.1	0.86	99	2.5	2.8	8.5	73	141
T3C 180M-4	18.5	25	1460	35.3	33.5	32.3	92.6	0.86	121	2.5	3.0	9.0	73	157
T3C 180L-4	22	30	1460	41.3	39.2	37.8	93.0	0.87	144	2.5	3.0	10.0	76	176
T3C 200L-4	30	40	1470	60.1	57.1	55.0	93.6	0.81	195	2.5	2.8	8.7	76	240
T3C 225S-4	37	50	1470	68.8	65.4	63.0	93.9	0.87	240	2.5	2.5	8.0	78	262
T3C 225M-4	45	60	1470	83	79.3	76.4	94.2	0.87	292	2.5	2.5	9.0	78	293
T3C 250M-4	55	75	1470	100	95	92	94.6	0.88	357	2.5	2.5	8.5	79	398
T3C 280S-4	75	100	1480	138	131	126	95.0	0.87	484	2.5	2.8	9.3	86	528
T3C 280M-4	90	125	1480	169	161	155	95.2	0.85	580	2.5	2.8	9.2	86	605
T3C 315S-4	110	150	1480	199	189	182	95.4	0.88	709	2.2	2.6	9.0	88	835
T3C 315M-4	132	180	1480	238	227	218	95.6	0.88	851	2.2	2.6	7.5	88	932
T3C 315L1-4	160	220	1480	288	274	264	95.8	0.88	1032	2.2	2.6	9.0	88	1061
T3C 315L2-4	200	250	1480	356	338	326	96.0	0.89	1290	2.2	2.6	9.0	88	1164
T3C 355M1-4	220	300	1480	391	372	358	96.0	0.89	1419	2.0	2.3	8.0	95	1395
T3C 355M2-4	250	340	1480	445	422	407	96.0	0.89	1612	2.0	2.3	7.2	95	1467
T3C 355L1-4	280	370	1480	498	473	456	96.0	0.89	1806	2.0	2.3	7.4	95	1530
T3C 355L2-4	315	430	1480	560	532	513	96.0	0.89	2032	2.0	2.3	7.4	95	1605

## EXEC - IE 3 - 6 POLE

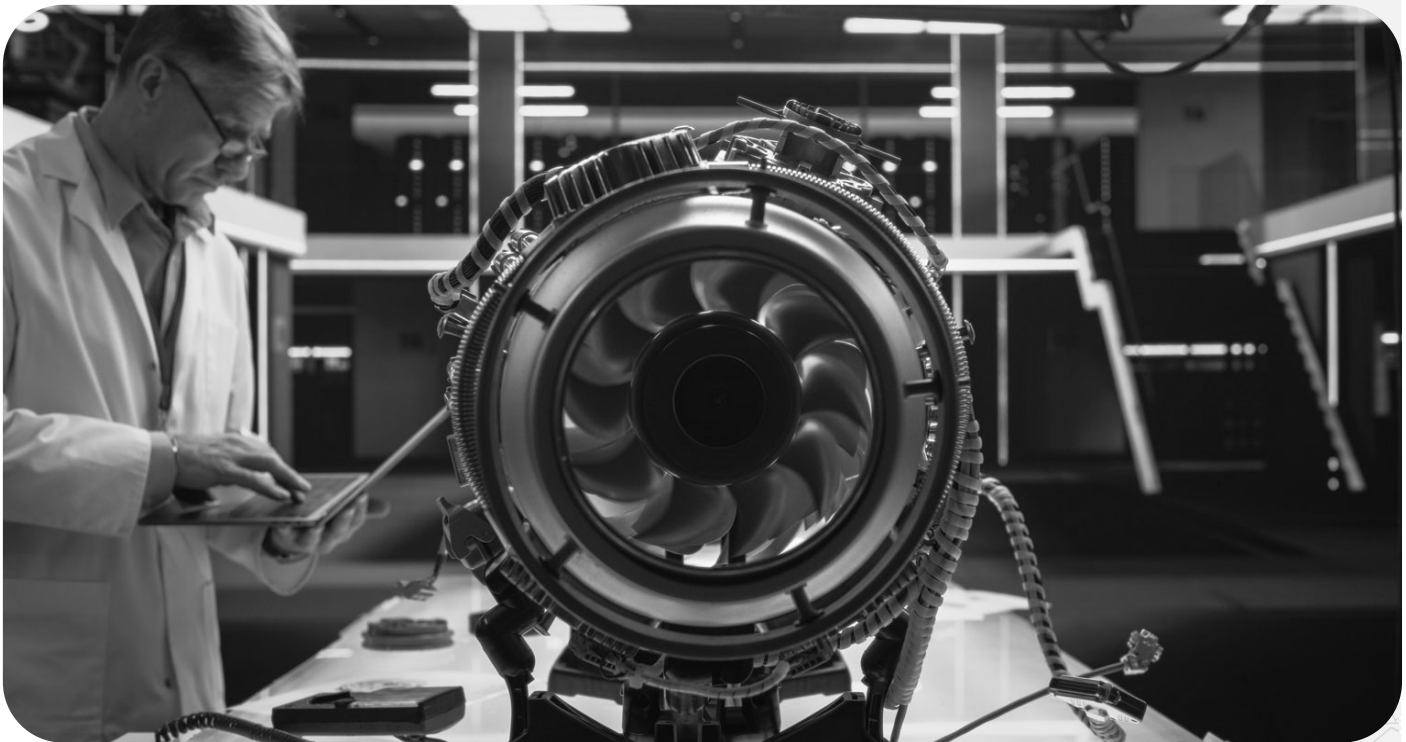
Frame	Rated Output		Speed (r/min)	Full Load Current 380V (AMP)	Full Load Current 400V (AMP)	Full Load Current 415V (AMP)	Efficiency (%)	Power Factor (cosΦ)	Rated Torque (Nm)	Locked Rotor Torque T <sub>ST</sub> /T <sub>FL</sub>	Maximum Torque T <sub>max</sub> /T <sub>FL</sub>	Locked Rotor Current I <sub>ST</sub> /I <sub>FL</sub>	Noise Level dB (A)	Weight (kg)
	kW	HP												
T3C 90S-6	0.75	1	950	2.16	2.05	1.97	78.9	0.67	7.5	2.3	2.6	4.7	57	21
T3C 90L-6	1.1	1.5	950	3.08	2.93	2.82	81.0	0.67	11.1	2.7	2.9	5.2	57	25
T3C 100L-6	1.5	2	955	3.95	3.75	3.61	82.5	0.70	15.0	2.4	2.9	5.5	61	32
T3C 112M-6	2.2	3	965	5.83	5.54	5.34	84.3	0.68	21.8	2.0	2.5	5.5	65	41
T3C 132S-6	3	4	965	7.2	6.8	6.6	85.6	0.74	29.7	2.0	2.7	6.0	69	56
T3C 132M1-6	4	5.5	970	9.5	9.0	8.7	86.8	0.74	39.4	2.3	3.0	6.8	69	66
T3C 132M2-6	5.5	7.5	975	13.4	12.7	12.2	88.0	0.71	54	2.9	3.5	7.4	69	74
T3C 160M-6	7.5	10	960	17.1	16.2	15.6	89.1	0.75	75	2.3	2.8	6.9	73	111
T3C 160L-6	11	15	960	24.4	23.1	22.3	90.3	0.76	109	2.5	2.8	7.6	73	139
T3C 180L-6	15	20	960	31.6	30.1	29.0	91.2	0.79	149	2.5	2.8	7.4	73	173
T3C 200L1-6	18.5	25	970	38	36.4	35.1	91.7	0.80	182	2.5	2.8	9.5	73	216
T3C 200L2-6	22	30	970	44.8	42.5	41.0	92.2	0.81	217	2.5	2.8	8.3	73	233
T3C 225M-6	30	40	975	55.8	53.0	51.1	92.9	0.88	294	1.8	2.2	7.0	74	312
T3C 250M-6	37	50	975	71	67	64.9	93.3	0.85	362	1.8	2.0	7.0	76	371
T3C 280S-6	45	60	980	88	84	81	93.7	0.83	438	2.5	2.8	8.9	78	478
T3C 280M1-6	55	75	980	105	99	96	94.1	0.85	536	2.5	2.8	9.2	78	543
T3C 315S-6	75	100	980	147	140	135	94.6	0.82	731	2.0	2.3	7.5	83	775
T3C 315M-6	90	125	980	176	167	161	94.9	0.82	877	2.0	2.3	7.5	83	873
T3C 315L1-6	110	150	980	214	204	196	95.1	0.82	1071	2.0	2.3	7.5	83	964
T3C 315L2-6	132	180	980	256	244	235	95.4	0.82	1286	2.0	2.3	7.5	83	1063
T3C 355M1-6	160	220	980	310	295	284	95.6	0.82	1558	2.0	2.3	7.5	85	1419
T3C 355M2-6	200	250	980	387	368	354	95.8	0.82	1948	2.0	2.3	7.5	85	1571
T3C 355L1-6	220	270	980	426	404	390	95.8	0.82	2143	2.0	2.3	7.5	85	1659
T3C 355L-6	250	300	980	484	459	443	95.8	0.82	2435	2.0	2.3	7.5	85	1846

## EXEC - IE 3 - 8 POLE

Frame	Rated Output		Speed (r/min)	Full Load Current 380V (AMP)	Full Load Current 400V (AMP)	Full Load Current 415V (AMP)	Efficiency (%)	Power Factor (cosΦ)	Rated Torque (Nm)	Locked Rotor Torque T <sub>ST</sub> /T <sub>FL</sub>	Maximum Torque T <sub>max</sub> /T <sub>FL</sub>	Locked Rotor Current I <sub>ST</sub> /I <sub>FL</sub>	Noise Level dB (A)	Weight (kg)
	kW	HP												
T3C 100L1-8	0.75	1	700	2.30	2.19	2.11	75.0	0.66	10.2	2.1	2.6	4.3	59	31
T3C 100L2-8	1.1	1.5	705	3.2	3.00	2.90	77.7	0.68	14.9	2.1	2.6	4.3	59	34
T3C 112M-8	1.5	2	705	4.1	3.9	3.7	79.7	0.70	20.3	1.8	2.1	4.2	61	42
T3C 132S-8	2.2	3	720	6.2	5.9	5.7	81.9	0.66	29.2	2.0	2.0	5.5	64	64
T3C 132M-8	3	4	725	8.2	7.7	7.5	83.5	0.67	39.5	2.6	3.0	6.1	64	72
T3C 160M1-8	4	5.5	730	11.0	10.5	10.1	84.8	0.65	52	1.9	2.1	6.0	68	90
T3C 160M2-8	5.5	7.5	730	14.9	14.2	13.7	86.2	0.65	72	2.0	2.2	6.0	68	98
T3C 160L-8	7.5	10	730	20.1	19.1	18.4	87.3	0.65	98	1.9	2.2	6.0	68	116
T3C 180L-8	11	15	730	25.2	23.9	23.0	88.6	0.75	144	2.0	2.0	6.6	70	170
T3C 200L-8	15	20	730	31.0	29.5	28.4	89.6	0.82	196	2.0	2.0	6.6	73	220
T3C 225S-8	18.5	25	735	39.0	37.0	35.7	90.1	0.80	240	1.9	2.0	6.6	73	301
T3C 225M-8	22	30	735	46.1	43.8	42.2	90.6	0.80	286	1.9	2.0	6.6	73	327
T3C 250M-8	30	40	735	62	59	57	91.3	0.80	390	1.9	2.0	6.6	75	408
T3C 280S-8	37	50	740	79	75	72	91.8	0.78	477	1.9	2.0	6.6	76	511
T3C 280M-8	45	60	740	95	90	87	92.2	0.78	580	1.9	2.0	6.6	76	581
T3C 315S-8	55	75	740	113	107	103	92.5	0.80	709	1.8	2.0	6.6	82	893
T3C 315M-8	75	100	740	153	145	140	93.1	0.80	967	1.8	2.0	6.6	82	1021
T3C 315L1-8	90	125	740	183	174	168	93.4	0.8	1161	1.8	2.0	6.6	82	1120
T3C 315L2-8	110	150	740	223	212	204	93.7	0.8	1419	1.8	2.0	6.4	82	1231
T3C 355M1-8	132	180	740	267	253	244	94.0	0.80	1703	1.8	2.0	6.4	90	1499
T3C 355M2-8	160	220	740	322	306	295	94.3	0.80	2064	1.8	2.0	6.4	90	1573
T3C 355L-8	200	250	740	402	381	368	94.6	0.80	2580	1.8	2.0	6.4	90	1705

## SERVICES

### INSTALLATION, MAINTENANCE, ON-SITE SERVICES



Elektrim offers a wide range of services for electric motors, including:

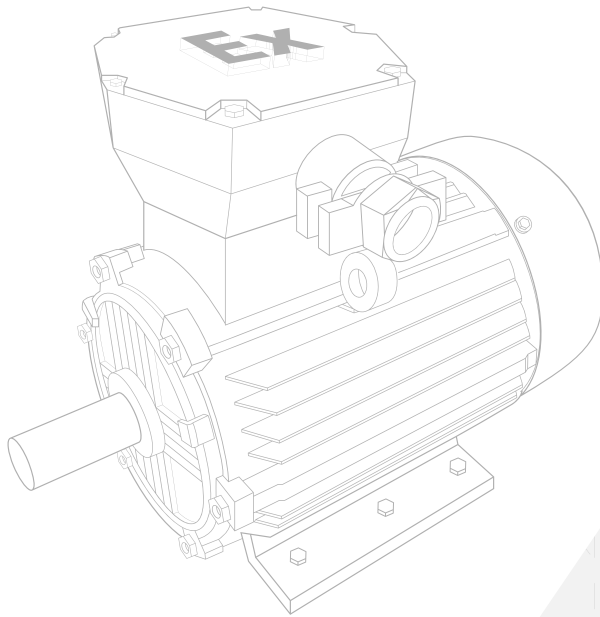
- **Installation and setup:** Ensures smooth operation of applications with electric motors.
- **Alignment:** Aligns electric motors with connected equipment for optimal performance.
- **Vibration analysis and troubleshooting:** Identifies potential issues and prevents breakdowns.
- **Inspection and verification:** Checks the accuracy of electric motors and components.
- **Regular maintenance:** Provides routine care to ensure optimal motor performance.
- **Overhaul and restoration:** Repairs and restores electric motors to like-new condition, including:
  - *Bearing replacement*
  - *Spare part replacement*
  - *Rewinding of electric motors (stator/rotor)*
  - *Accessory repair and replacement*
  - *Rotor shaft replacement*
- **Balancing:** Ensures smooth operation and reduces vibration.
- **Customization:** Adapts electric motors to new operating conditions.
- **Painting and finishing:** Restores the appearance of electric motors.
- **Training:** Provides customer training on electric motor operation and maintenance.
- **Energy analysis and efficiency:** Helps customers optimize energy consumption.

With these comprehensive services, Elektrim ensures the reliability and efficiency of your electric motors.

## ACCESSORIES / MODIFICATIONS

### MECHANICAL

- Resistive Temperature Detectors RTD (PT100)
- PTC Thermistors
- Space Heaters
- IP56 / 65 / 66
- Brake
- Custom Shaft
- Special Bearings
- Anti-Corrosion Paint
- Rain / Drip Cover
- Slings
- Drain Plug



Custom Shaft



Special Bearings



Resistive Temperature Detectors RTD (PT100)

### PAIRING WITH ELEKTRIM EMD800 INVERTERS

Elektrim delivers a comprehensive and fully compatible hazardous area solution by seamlessly integrating our robust explosion-proof motors with the advanced **Elektrim EMD800 series inverters**, which can be housed in customizable, **ATEX certified explosion-proof panels**. This integrated approach provides a single point of contact for sales, comprehensive technical support, and streamlined service.

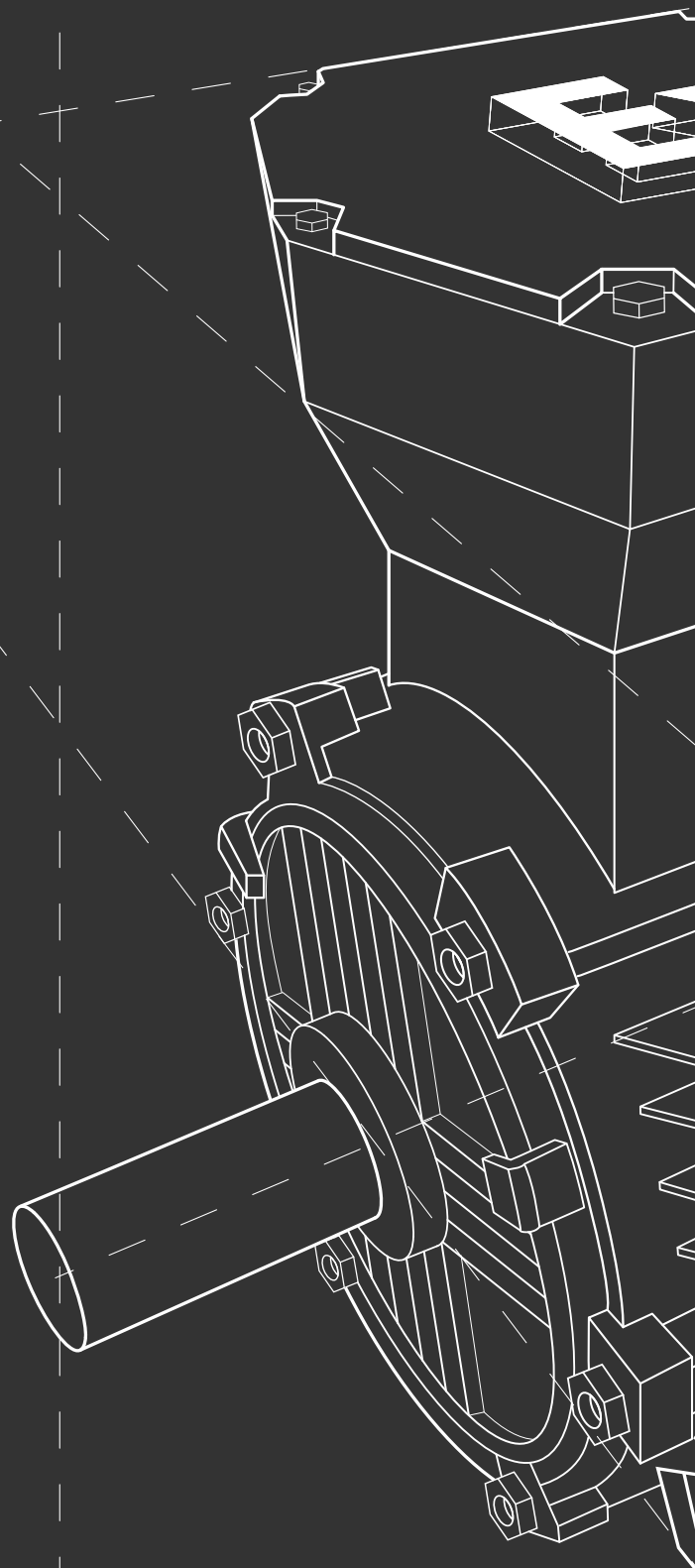
Engineered for optimal performance and enhanced safety, this motor-inverter-panel system offers tailored solutions with flexible options to meet your specific hazardous area requirements. Choose **Elektrim** for a complete, reliable, and fully supported solution, expertly configured for your unique needs.

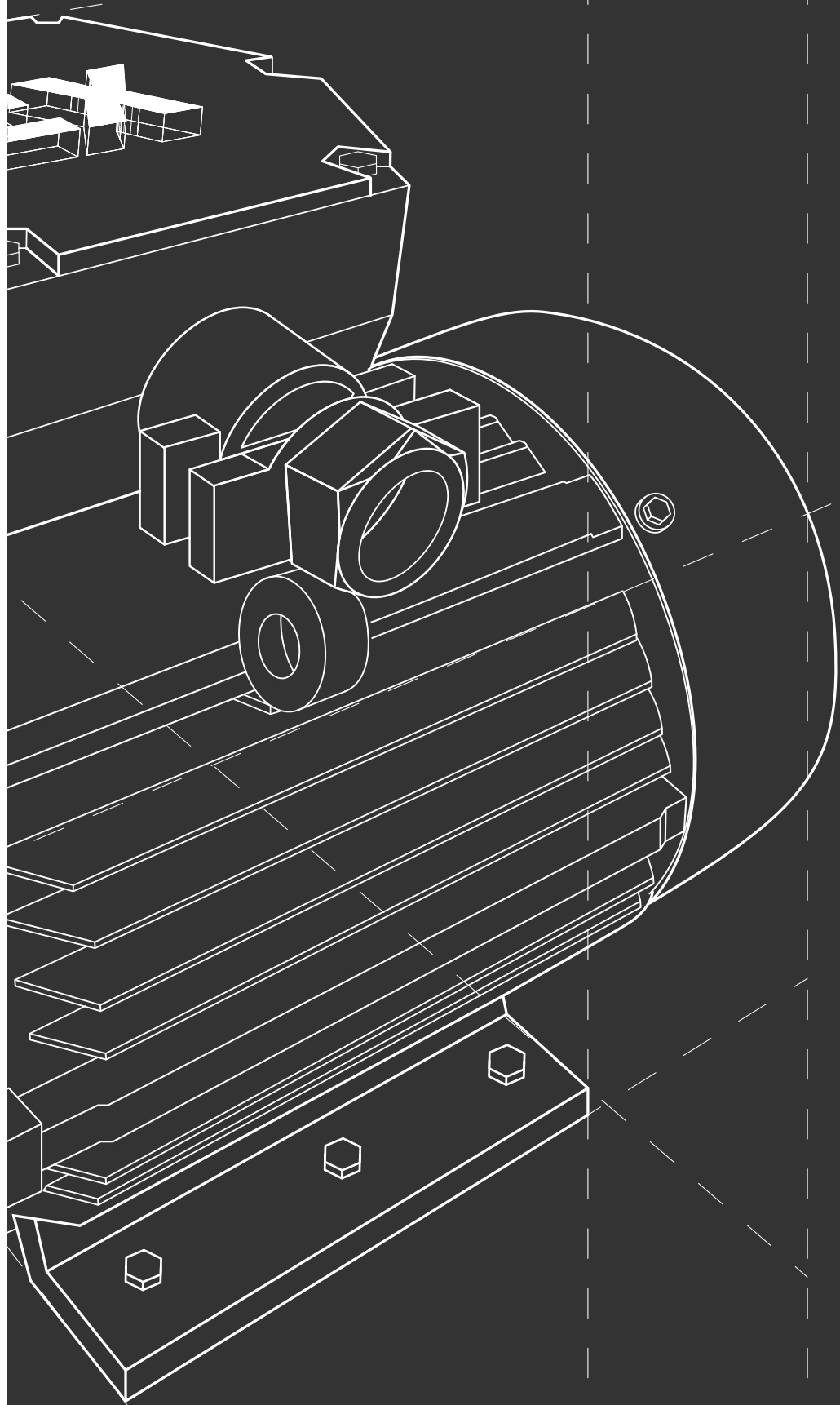


Elektrim EMD800 inverter

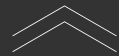
# *Elektrim* MOTORS

EXPLOSION-PROOF  
MOTORS





PROJECT  
REFERENCE



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CONTENT



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