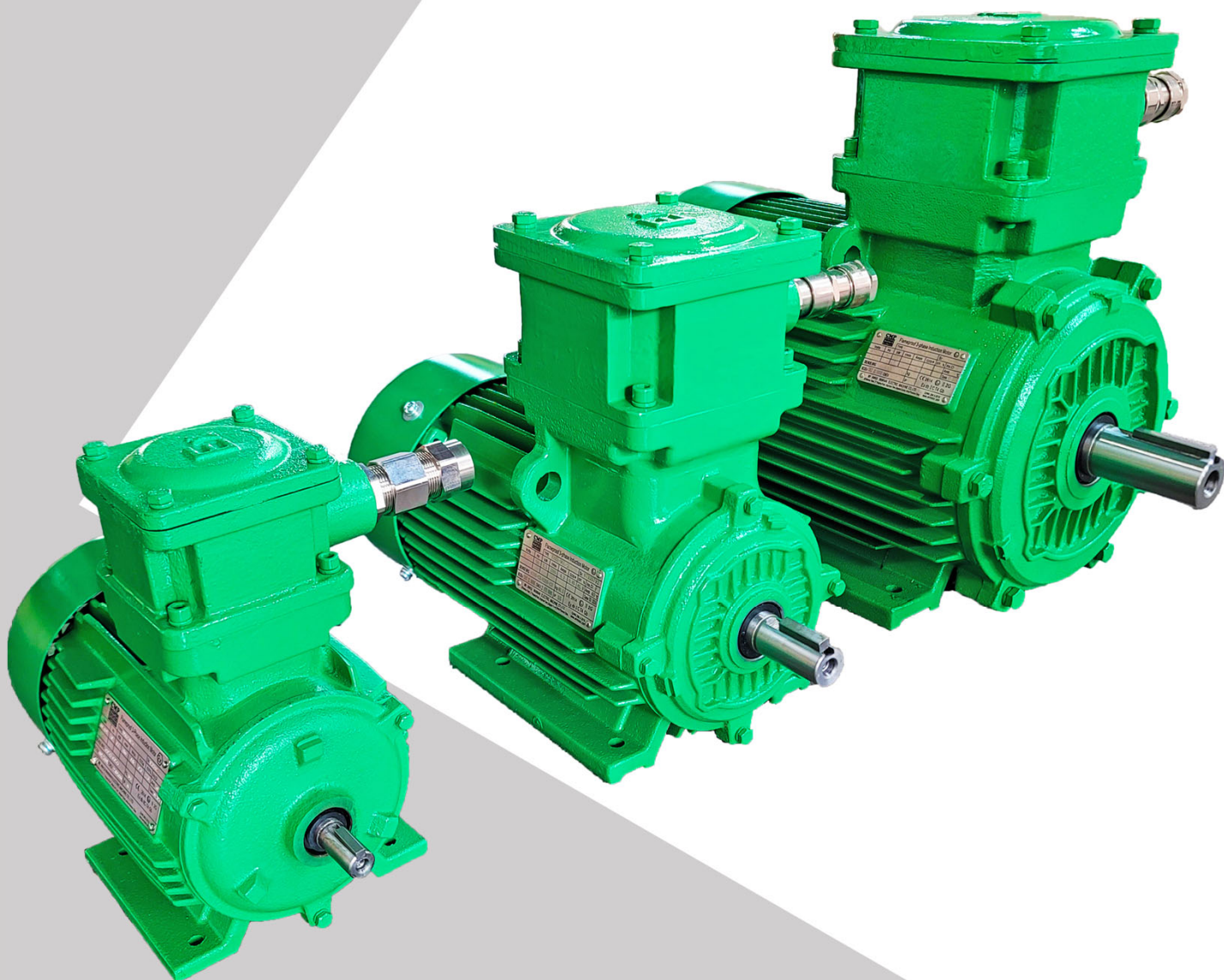


PRODUCTS CATALOG

COMMERCIAL AND INDUSTRIAL

CMP
Century
motors
Producer



EXPLOSION FLAMEPROOF MOTORS
YBX3 SERIES
THREE PHASE

Introduction

CMP's YBX3 range of IE3 Exdb 'flameproof' motors are certified for use in Zone 1, Class 1, Group IIA, IIB, IIC hazardous locations. These motors are designed to contain any sparks within the motor without igniting external vapours. They incorporate features such as a robust cast iron construction and special terminal box to meet the stringent certification requirements.

The complete YBX3 range covers sizes 71 to 355, three phase 2, 4, 6, 8 & 10 pole, with foot and flange mounting options .

Certification

The YBX3 range is specially designed and certified to the essential health and safety requirements by compliance with applied standard: IEC60079-0-2017, IEC 60079-1:2014,

ATEX certification number is **CNEX 22 ATEX 0009X**



IECEx certification number is **IECEx CNEX 22.0009X**



Ex II 2G Ex db IIC T4 Gb IP55 Tamb: -20°C to 40°C

Standards and specifications

The main dimensions and rated outputs of the YBX3 series generally conform to International Standards IEC 60034 and IEC 60072.

Operating parameters

Motors are designed with the following parameters:

- Continuous duty (S1)
- Ambient temperatures up to 60°C
- Installation at altitudes up to 1000 metres
- Motors may be suitable for other operating parameters, enquire with CMP.

Performance data is based on these parameters and may need adjustment for different conditions. Motors can be manufactured for any supply between 100 and 1100 Volts and frequencies 0 Hz to 70 Hz.

Terminal box

The terminal box of the YBX3 series is amply sized to allow for termination of cables and to accept flameproof glands. Cable entry size as below table :

Motor Frame	Cable Entry
71	1 x M20 x 1.5
80~100	1 x M25 x 1.5
112~132	2 x M32 x 1.5
160~180	2 x M32 x 1.5
200~225	2 x M50 x 1.5
250~355	1 x M63 x 1.5

F class insulation, T4 surface temperature

YBX3 series motors have F class insulation and B class temperature rise. This design feature assures cool running of the motor. Certified Ex db T4 class motors have a maximum allowable surface temperature of 135°C.

Degree of protection

Level of enclosure protection for the YBX3 series is IP55.

Thermistors

YBX3 motors frame size 160 and above are fitted, as standard, with one set of (3) 145°C PTC thermistors and are terminated within the main terminal box.

Internal connections

Frame sizes 71 to 100 have three terminals suitable for DOL starting. Frame sizes 112 to 355 have six terminals suitable for DOL or Star/Delta starting.

VVVF drive selection

YBX3 Ex db hazardous location motors require thermistors when used in conjunction with VVVF drive to ensure the temperature rise remains below the certified T4 level. Exdb /VVVF drive packages are available including a force ventilation option on request.

Bearing

Bearings fitted are deep groove ball type and are the same size both ends on frames 71 to 160. 355 Frame motors have a deep groove ball type bearing on the Non Drive end, with a deep groove ball bearing on the drive end for 2 Pole motors, and a cylindrical roller bearing for 4, 6, and 8 Pole motors. Frames 71 to 132 have sealed for life bearings. Frames 160 to 355 have open bearings that are capable of being replenished via grease nipples.

Frame Size	DE		NDE	
	2P	4P	2P	4P
71	6202		6202	
80	6204		6204	
90	6205		6205	
100	6206		6206	
112	6206		6206	
132	6308		6308	
160	6309		6309	
180	6211	6311	6311	
200	6312		6312	
225	6312	6313	6312	
250	6313	6314	6313	
280	6314	6317	6314	
315	6317	NU319	6317	6319
355	6322	NU322	6322	

Paint finish

Motors are painted with a high quality enamel finish. The standard colour is Signal green (RAL 6032), with other colours available on request.

Gaseous Hazards



Explosive gas atmospheres are classified into zones based on the frequency and duration of their occurrence as below:

- Zone 0: an area in which an explosive gas atmosphere is present continuously, for long periods, or is present frequently.
- Zone 1: an area in which an explosive gas atmosphere is likely to occur in normal operation occasionally.
- Zone 2: an area in which an explosive gas atmosphere is not likely to occur in normal operation, and if it does occur it will exist for a short period only.

Electrical apparatus for potentially explosive atmospheres is divided into the following groups.

- Group I : mines susceptible to fire damp (methane)
Group II : other industries

High surface temperatures can cause ignition of flammable gases or vapors therefore the surface temperature of equipment in hazardous areas must not exceed the ignition temperature of these gases or vapors.

Group I : electrical equipment may not have a surface temperature that exceeds 150°C where coal dust can form a layer, and 450°C for internal surfaces where the above risk is avoided by sealing against ingress or dust.

Group II : electrical equipment may not have a surface temperature that exceeds its specified temperature class, as listed in the table below:

Temperature class of electrical equipment	Maximum surface temperature of electrical equipment	Ignition temperature of gas or vapor
T1	≤450°C	>450°C
T2	≤300°C	>300°C
T3	≤200°C	>200°C
T4	≤135°C	>135°C
T5	≤100°C	>100°C
T6	≤85°C	>85°C

Electrical apparatus of Group II may be subdivided according to the nature of the potentially explosive atmosphere for which it is intended.

Group specification and characteristics of some common flammable liquids, gases, and vapors are listed in the table below:

Material	Boiling point [°C]	Flash point [°C]	Ignition temp. [°C]	Gas group
Acetone	56	-20	465	IIA
Acetylene	-83	Gas	305	IIC
Ammonia	-33	Gas	651	IIA
Benzene	80	12	498	IIA
Butane	-1	Gas	287	IIA
Carbon-Monoxide	-192	Gas	609	IIA
Ethane	-89	Gas	472	IIA
Ethyl Alcohol	78	55	363	IIA
Ethylene	-104	Gas	450	IIB
Haptane	98	-4	204	IIA
Hydrogen	-252	Gas	500	IIC
Hydrogen cyanide	26	-18	538	IIB
Methane	-162	Gas	537	IIA
Propane	-42	Gas	432	IIA
Toluene	111	4	480	IIA

Note: The data given in this table is derived from NFPA 325M. Flashpoint is the lowest temperature at which a material gives off sufficient vapor to form an explosive gas / air mixture in the air immediately above the surface.

Equipment within a specific group may only be used within a location with an equal or less level of hazard. Allowable groups are summarized in the table below:

Gas group	Allowable equipment group
IIA	IIA, IIB, IIC
IIB	IIB, IIC
IIC	IIC

Number of starts per hour

The number of starts per hour is dependant on the inertia of the driven load and the load torque demand. When high inertia load is applied (flywheel, heavy fan etc) please refer to your nearest CMP office for advice. A guide to generally acceptable starts per hour would be as per table.

For greater number of starts per hour, please contact your nearest CMP office for advice.

Frame	Starts per Hour			
	2 Pole	4 Pole	6 Pole	8 Pole
71 *	-	40	-	-
80 *	20	40	40	-
90	16	30	40	-
100	16	30	40	40
112	16	30	40	40
132	10	20	25	25
160	10	20	25	25
180	8	15	20	20
200	6	12	12	12
225	5	10	10	10
250	4	8	8	8
280	3	6	6	6
315	3	4	4	4

* 20 Starts I Hour for Ex tD brake Motors

Permitted starting time

In respect to the temperature rise of the motor, starting time (i.e., from rest to operational speed) should not exceed the time indicated in the following table. Motor must be allowed to cool prior to each start.

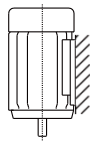
Note: For Ex e motors t_E time stated on motor name plate takes precedence over these times

Frame	Starting method	Maximum starting time [sec]			
		2 poOe	poOe	6 poOe	8 poOe
71	D.O.L.	-	26	-	-
80	D.O.L.	15	26	40	-
90	D.O.L.	10	15	25	-
100	D.O.L.	12	13	18	40
112	D.O.L.	10	10	18	35
132	D.O.L.	14	12	12	25
160-355	D.O.L.	15	15	20	20
160-355	Star-delta	45	45	60	60

Mounting Arrangements

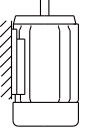
Foot Mounting Horizontal

83
IM1001
Frame 71-355



V5
IM1011
Frame 71-160

V6
IM1031
Frame 71-160



Foot Mounting Vertical

86
IM1051
Frame 71-160



87
IM1061
Frame 71-160

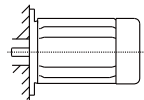


88
IM1071
Frame 71-160

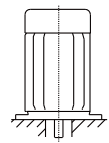


Flange Mounting

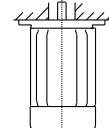
85
IM3001
Frame 71-280



V1
IM3011
Frame 71-355

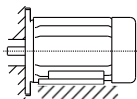


V3
IM3031
Frame 71-160

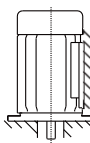


Foot Flange Mounting

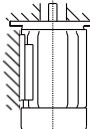
83/85
IM2001
Frame 71-355



V1/V5
IM2011
Frame 71-160

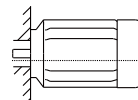


V3/V6
IM2011
Frame 71-160

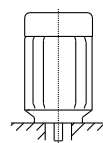


Face Mounting

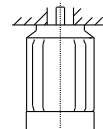
814A
IM3601
Frame 71-112



V18
IM3611
Frame 71-112

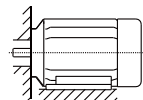


V19
IM3631
Frame 71-112

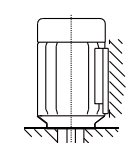


Foot Face Mounting

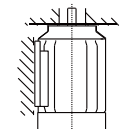
83/814A
IM2101
Frame 71-112



V5/V18
IM2111
Frame 71-112



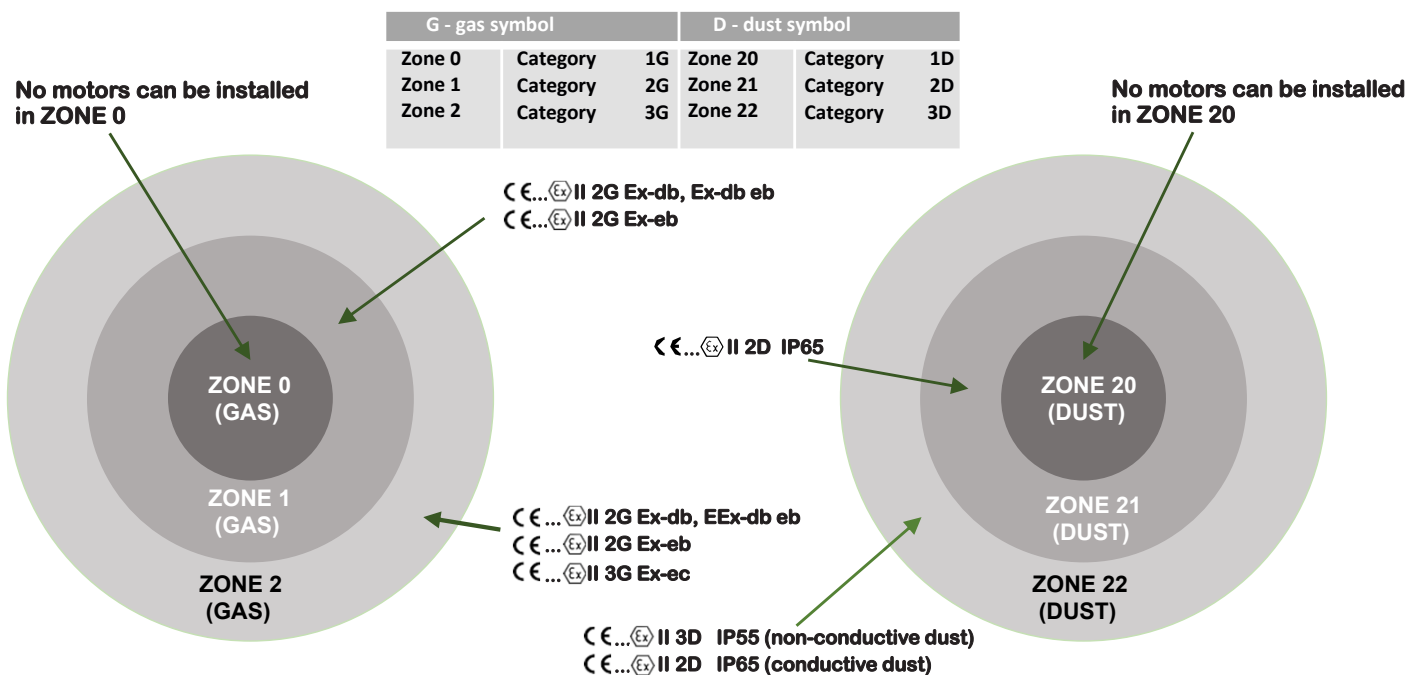
V6/V19
IM2131
Frame 71-112



ATEX Categories Explanation

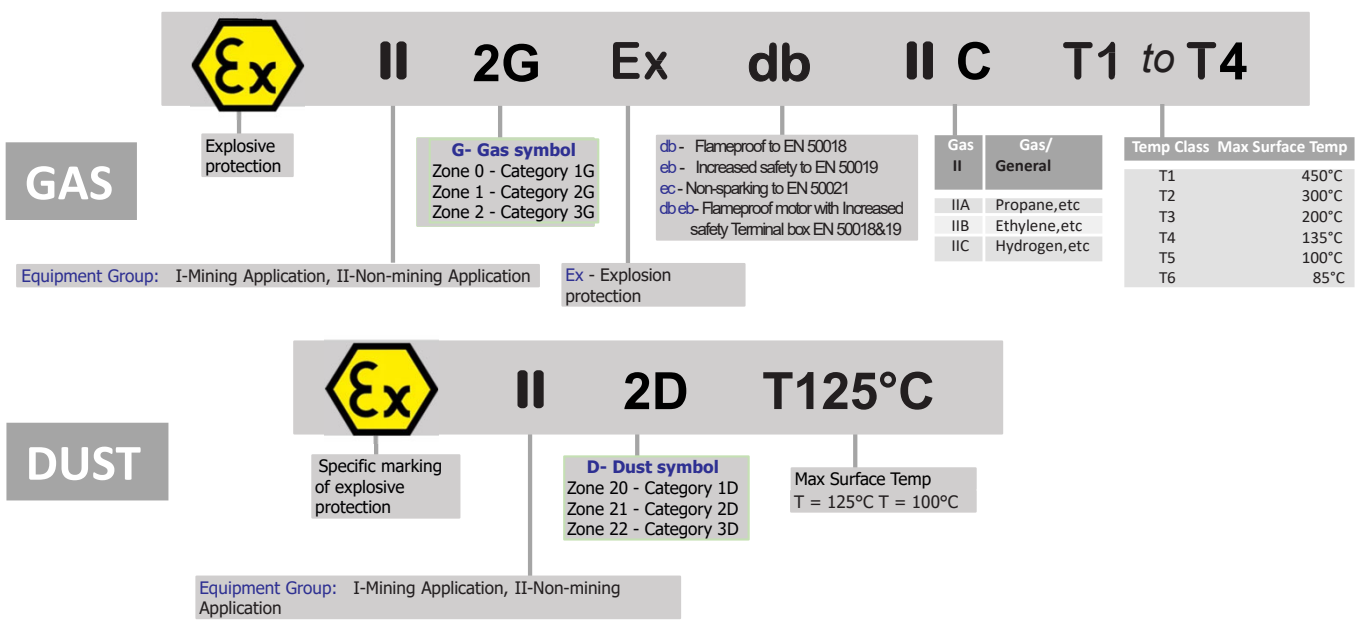
Electric Motors for GAS Explosive Atmospheres

Electric Motors for DUST Explosive Atmospheres



GAS		DUST	
Zone 0	Explosive Gases present continuously	Zone 20	Explosive Dust Atmosphere present continuously
Zone 1	Explosive Gases likely to occur in normal service	Zone 21	Explosive Dust Atmosphere likely to occur in normal service
Zone 2	Explosive Gases unlikely to occur and would be infrequent and short term	Zone 22	Explosive Dust Atmosphere unlikely to occur and would be infrequent and short term

ATEX Marking of equipment protection



PERFORMANCE DATA IE3

FRAME	Output Power		Full load Current (A)			Speed r/min	Eff %	Power Factory φ	Torque			Current Locked rotor Ist/In	Weight Kg
	KW	HP	380V	400V	415V				Full Load (Nm)	Locked rotor Tst/Tn	Max torque Tmax/TN		
3000 RPM = 2 POLES													
YBX3 71M-1-2	0.37	0.5	0.95	0.90	0.86	2770	73.8	0.81	1.3	2.2	2.3	6.2	14.5
YBX3 71M2-2	0.55	0.75	1.3	1.2	1.1	2795	77.8	0.82	1.9	2.2	2.3	6.2	16.5
YBX3 80M1-2	0.75	1.0	1.7	1.6	1.5	2870	80.7	0.82	2.5	2.2	2.3	7.0	29
YBX3 80M2-2	1.1	1.5	2.4	2.3	2.2	2875	82.7	0.83	3.6	2.2	2.3	7.3	31
YBX3 90S-2	1.5	2.0	3.2	3.1	3.0	2880	84.2	0.84	5.0	2.2	2.3	7.6	36
YBX3 90L-2	2.2	3.0	4.5	4.3	4.1	2880	85.9	0.85	7.2	2.2	2.3	7.6	41
YBX3 100L-2	3	4.0	6.0	5.7	5.4	2890	87.1	0.87	9.9	2.2	2.3	7.8	48
YBX3 112M-2	4	5.5	7.8	7.4	7.0	2915	88.1	0.88	13.2	2.2	2.3	8.3	69
YBX3 132S 1-2	5.5	7.5	10.6	10.1	9.8	2940	89.2	0.88	18.0	2.2	2.3	8.3	90
YBX3 132S2-2	7.5	10	14.4	13.7	13.2	2935	90.1	0.89	24.5	2.2	2.3	7.9	97
YBX3 160M 1-2	11	15	20.6	19.6	18.6	2945	91.2	0.89	35.7	2.2	2.3	8.1	147
YBX3 160M2-2	15	20	27.9	26.5	25.6	2945	91.9	0.89	48.6	2.2	2.3	8.1	156
YBX3 160L-2	18.5	25	34.1	32.5	30.9	2945	92.4	0.89	60.0	2.2	2.3	8.2	175
YBX3 180M-2	22	30	40.4	38.5	36.6	2950	92.7	0.89	71.1	2.0	2.3	8.2	225
YBX3 200L 1-2	30	40	54.7	52.1	49.5	2965	93.3	0.89	96.6	2.0	2.3	7.6	293
YBX3 200L2-2	37	50	67.2	64.0	60.8	2965	93.7	0.89	119.2	2.0	2.3	7.6	305
YBX3 225M-2	45	60	80.6	76.8	73.0	2965	94.0	0.89	144.9	2.0	2.3	7.7	405
YBX3 250M-2	55	75	98.2	93.5	88.8	2975	94.3	0.89	177	2.0	2.3	7.7	504
YBX3 280S-2	75	100	133.3	127.0	120.7	2975	94.7	0.89	240.8	1.8	2.3	7.1	594
YBX3 280M-2	90	120	159.6	152.0	144.4	2970	95.0	0.89	288.9	1.8	2.3	7.1	700
YBX3 315S-2	110	150	194.6	185.3	176.0	2985	95.2	0.90	352.5	1.8	2.3	7.1	1098
YBX3 315M-2	132	180	233.0	221.9	210.8	2985	95.4	0.90	423.7	1.8	2.3	7.1	1197
YBX3 315L 1-2	160	220	278.8	265.5	252.2	2985	95.6	0.91	513.6	1.8	2.3	7.2	1250
YBX3 315L-2	185	250	322	307	291	2985	95.7	0.91	594	1.8	2.2	7.2	1308
YBX3 315L2-2	200	270	347.7	331.1	314.5	2985	95.8	0.91	642	1.8	2.2	7.2	1350
YBX3 315L3-2	220	300	382.5	364.3	346.1	2985	95.8	0.91	705	1.6	2.2	7.2	1400
YBX3 355M2-2	250	340	434.6	413.9	393.2	2985	95.8	0.91	801.2	1.6	2.2	7.2	1850
YBX3 355L 1-2	280	380	486.8	463.6	440.4	2985	95.8	0.91	891.3	1.6	2.2	7.2	1925
YBX3 355L2-2	315	430	547.6	521.5	495.4	2985	95.8	0.91	1009.5	1.6	2.2	7.2	2010

PERFORMANCE DATA IE3

FRAME	Output Power		Full load Current (A)			Speed r/min	Eff %	Power Factory φ	Torque			Current	Weight Kg
	KW	HP	380V	400V	415V				Full Load (Nm)	Locked rotor Tst/Tn	Max torque Tmax/TN		
1500 RPM = 4 POLES													
YBX3 71M1-4	0.25	0.33	0.74	0.70	0.67	1355	73.5	0.74	1.8	2.2	2.2	5.5	15
YBX3 71M1-4	0.37	0.5	0.95	0.90	0.86	1375	77.3	0.75	2.6	2.2	2.2	5.5	16.5
YBX3 80M-1	0.55	0.75	1.4	1.3	1.2	1430	80.8	0.75	3.6	2.3	2.3	6.0	29
YBX3 80M2-4	0.75	1.0	1.8	1.7	1.6	1430	82.5	0.75	5.0	2.3	2.3	6.6	30
YBX3 90S-4	1.1	1.5	2.6	2.5	2.4	1430	84.1	0.76	7.3	2.3	2.3	6.8	37
YBX3 90L-4	1.5	2.0	3.5	3.3	3.1	1430	85.3	0.77	10.0	2.3	2.3	7.0	41
YBX3 100L 1-4	2.2	3.0	4.7	4.5	4.3	1450	86.7	0.81	14.5	2.3	2.3	7.6	51
YBX3 100L2-4	3	4.0	6.3	6.0	5.7	1445	87.7	0.82	19.8	2.2	2.3	7.6	51
YBX3 112M-4	4	5.5	8.3	7.9	7.5	1455	88.6	0.82	26.3	2.0	2.3	7.8	71
YBX3 132S-4	5.5	7.5	11.2	10.7	10.2	1465	89.6	0.83	36.0	2.0	2.3	7.9	93
YBX3 132M-4	7.5	10	15.0	14.3	13.6	1460	90.4	0.84	49.1	2.2	2.3	7.5	105
YBX3 160M-4	11	15	21.4	20.4	19.4	1470	91.4	0.85	71.5	2.2	2.3	7.7	151
YBX3 160L-4	15	20	29.0	27.6	26.2	1470	92.1	0.86	97.1	2.0	2.3	7.8	161
YBX3 180M-4	18.5	25	35.2	33.5	31.8	1470	92.6	0.86	119.8	2.0	2.3	7.8	211
YBX3 180L-4	22	30	41.7	39.7	37.7	1470	93.0	0.86	142.4	2.0	2.3	7.8	241
YBX3 200L-4	30	40	56.5	53.8	51.1	1475	93.6	0.86	194.2	2.0	2.3	7.3	302
YBX3 225S-4	37	50	69.4	66.1	62.8	1480	93.9	0.86	238.8	2.0	2.3	7.4	344
YBX3 225M-4	45	60	84.1	80.2	76.2	1480	94.2	0.86	290.4	2.2	2.3	7.4	381
YBX3 250M-4	55	75	102.5	97.6	92.7	1485	94.6	0.86	353.7	2.0	2.3	7.4	495
YBX3 280S-4	75	100	135.5	129.0	122.6	1490	95.0	0.88	482.3	2.0	2.3	6.9	715
YBX3 280M-4	90	120	163	155	147	1490	95.2	0.88	578	2.0	2.2	6.9	723
YBX3 315S-4	110	150	196	187	178	1490	95.4	0.89	707	2.0	2.2	7.0	1001
YBX3 315M-4	132	180	235	224	213	1490	95.6	0.89	849	2.0	2.2	7.0	1118
YBX3 315L 1-4	160	220	284	271	257	1490	95.8	0.89	1029	2.0	2.2	7.1	1307
YBX3 315L--4	185	250	329	313	297	1490	95.9	0.89	1189	2.0	2.2	7.1	1475
YBX3 315L2 -4	200	270	351	334	317	1490	96.0	0.90	1286	2.0	2.2	7.1	1530
YBX3 315L3-4	220	300	386	368	349	1490	96.0	0.90	1410	2.0	2.2	7.1	1775
YBX3 355M-4	250	340	439	418	397	1490	96.0	0.90	1602	2.0	2.2	7.1	2131
YBX3 355L 1-4	280	380	491	468	444	1495	96.0	0.90	1795	2.0	2.2	7.1	2171
YBX3 355L2 -4	315	430	553	526	500	1495	96.0	0.90	2019	2.0	2.2	7.1	2181

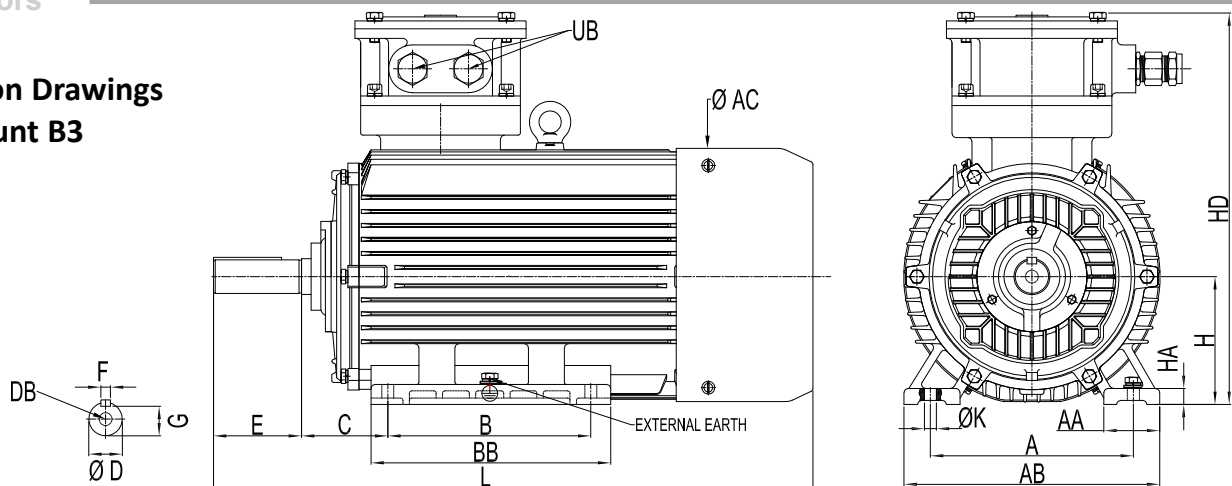
PERFORMANCE DATA IE3

FRAME	Output Power		Full load Current (A)			Speed r/min	Eff %	Power Factory φ	Torque			Current Locked rotor Ist/In	Weight Kg
	KW	HP	380V	400V	415V				Full Load (Nm)	Locked rotor Tst/Tn	Max torque Tmax/TN		
1000 RPM = 6 POLES													
YBX3 80M1-6	0.37	0.5	1.05	1.00	0.95	925	73.5	0.70	3.8	1.9	2.0	5.5	28
YBX3 80M2-6	0.55	0.75	1.5	1.4	1.3	925	77.2	0.72	5.6	1.9	2.1	5.8	30
YBX3 90S-6	0.75	1.0	2.0	1.9	1.8	945	78.9	0.71	7.5	2.0	2.1	6.0	37
YBX3 90L-6	1.1	1.5	2.8	2.7	2.6	950	81.0	0.73	11.0	2.0	2.1	6.0	41
YBX3 100L-6	1.5	2.0	3.8	3.6	3.4	955	82.5	0.73	15.0	2.0	2.1	6.5	49
YBX3 112M-6	2.2	3.0	5.4	5.1	4.8	965	84.3	0.74	22.1	2.0	2.1	6.6	71
YBX3 132S-6	3	4.0	7.1	6.8	6.5	980	85.6	0.74	29.5	2.0	2.1	6.8	85
YBX3 132M1-6	4	5.5	9.5	9.0	8.6	980	86.8	0.74	39.4	2.0	2.1	6.8	94
YBX3 132M2-6	5.5	7.5	12.6	12.0	11.4	980	88.0	0.75	54.2	2.0	2.1	7.0	104
YBX3 160M-6	7.5	10	16.2	15.4	14.6	980	89.1	0.79	73.5	2.0	2.1	7.0	134
YBX3 160L-6	11	15	23.1	22.0	20.9	980	90.3	0.80	108	2.0	2.1	7.2	161
YBX3 180L-6	15	20	30.8	29.3	27.8	980	91.2	0.81	146	2.0	2.1	7.3	225
YBX3 200L1-6	18.5	25	37.8	36.0	34.2	985	91.7	0.81	180.3	2.0	2.1	7.3	246
YBX3 200L2-6	22	30	44.6	42.5	40.4	985	92.2	0.81	214	2.0	2.1	7.4	258
YBX3 225M-6	30	40	59.0	56.2	53.4	985	92.9	0.83	291	2.0	2.1	6.9	367
YBX3 250M-6	37	50	71.5	68.1	64.7	985	93.3	0.84	359	2.0	2.1	7.1	464
YBX3 280S-6	45	60	85.7	81.6	77.5	990	93.7	0.85	436	2.0	2.0	7.3	609
YBX3 280M-6	55	75	103	98.1	93.2	990	94.1	0.86	533	2.0	2.0	7.3	680
YBX3 315S-6	75	100	143	136	129	990	94.6	0.84	724	2.0	2.0	6.6	1001
YBX3 315M-6	90	120	169	161	153	990	94.9	0.85	869	2.0	2.0	6.7	1118
YBX3 315L 1-6	110	150	206	196	187	990	95.1	0.85	1061	2.0	2.0	6.7	1307
YBX3 315L2-6	132	180	244	232	221	990	95.4	0.86	1273	2.0	2.0	6.8	1475
YBX3 355M 1-6	160	220	295	281	267	995	95.6	0.86	1543	1.8	2.0	6.8	1530
YBX3 355M-6	185	250	341	325	308	995	95.7	0.86	1785	1.8	2.0	6.8	1775
YBX3 355M2-6	200	270	364	346	329	995	95.8	0.87	1929	1.8	2.0	6.8	2131
YBX3 355L 1-6	220	300	400	381	362	995	95.8	0.87	2122	1.8	2.0	6.8	2171
YBX3 355L2-6	250	340	455	433	411	995	95.8	0.87	2412	1.8	2.0	6.8	2181

PERFORMANCE DATA IE3

FRAME	Output Power		Full load Current (A)			Speed r/min	Eff %	Power Factory φ	Torque			Current Locked rotor Ist/In	Weight Kg
	KW	HP	380V	400V	415V				Full Load (Nm)	Locked rotor Tst/Tn	Max torque Tmax/TN		
750 RPM = 8 POLES													
YBX3 80M1-8	0.18	0.25	0.8	0.8	0.7	700	56.0	0.61	2.5	1.8	1.9	3.3	27
YBX3 80M2-8	0.25	0.33	1.1	1.0	1.0	700	59.0	0.61	3.4	1.8	1.9	3.3	29
YBX3 90S-8	0.37	0.5	1.4	1.3	1.2	695	66.0	0.61	5.1	1.8	1.9	4.0	37
YBX3 90L-8	0.55	0.75	2.0	1.9	1.8	695	70.0	0.61	7.6	1.8	2.0	4.0	41
YBX3 100L1-8	0.75	1.0	2.3	2.2	2.1	705	73.5	0.67	10.2	1.8	2.0	4.0	49
YBX3 100L2-8	1.1	1.5	3.2	3.0	2.9	705	76.5	0.69	14.9	1.8	2.0	5.0	71
YBX3 112M-8	1.5	2.2	4.2	4.0	3.8	715	77.5	0.70	20.0	1.8	2.0	5.0	85
YBX3 132S-8	2.2	3.0	5.9	5.6	5.3	730	80.0	0.71	28.8	1.8	2.2	6.0	94
YBX3 132M-8	3	4.0	7.6	7.2	6.8	730	82.5	0.73	39.2	1.8	2.2	6.0	104
YBX3 160M1-8	4	5.5	9.8	9.3	8.8	725	85.0	0.73	52.7	1.9	2.2	6.0	134
YBX3 160M2-8	5.5	7.5	13.1	12.5	11.9	725	86.0	0.74	72.4	1.9	2.2	6.0	161
YBX3 160L-8	7.5	10	17.3	16.5	15.7	730	87.5	0.75	98.1	1.9	2.2	6.0	225
YBX3 180L-8	11	15	25.0	23.8	22.6	725	89.0	0.75	145	1.9	2.2	6.5	246
YBX3 200L-8	15	20	33.1	31.5	29.9	730	90.4	0.76	196	2.0	2.2	6.6	258
YBX3 225S-8	18.5	25	40.5	38.6	36.7	735	91.2	0.76	240	2.0	2.2	6.6	367
YBX3 225M-8	22	30	46.7	44.5	42.3	735	91.5	0.78	286	2.0	2.2	6.6	464
YBX3 250M-8	30	40	62.5	59.5	56.5	735	92.2	0.79	390	1.9	2.0	6.5	609
YBX3 280S-8	37	50	76.3	72.7	69.1	740	93.0	0.79	478	1.8	2.0	6.6	680
YBX3 280M-8	45	60	92.4	88.0	83.6	740	93.5	0.79	581	1.8	2.0	6.6	1001
YBX3 315S-8	55	75	110	105	99	740	93.8	0.81	710	1.8	2.0	6.6	1118
YBX3 315M-8	75	100	149	142	135	740	94.0	0.81	968	1.8	2.0	6.2	1307
YBX3 315L1-8	90	120	176	168	159	740	94.5	0.82	1161	1.8	2.0	6.4	1475
YBX3 315L2-8	110	150	215	204	194	740	94.8	0.82	1420	1.8	2.0	6.4	1530
YBX3 355M1-8	132	180	257	245	232	745	95.0	0.82	1692	1.8	2.0	6.4	1775
YBX3 355M2-8	160	220	311	297	282	745	95.0	0.82	2051	1.8	2.0	6.4	2131
YBX3 355L1-8	185	250	359	342	325	745	95.2	0.82	2371	1.8	2.0	6.4	2171
YBX3 355L-8	200	270	384	365	347	745	95.2	0.83	2564	1.8	2.0	6.4	2181

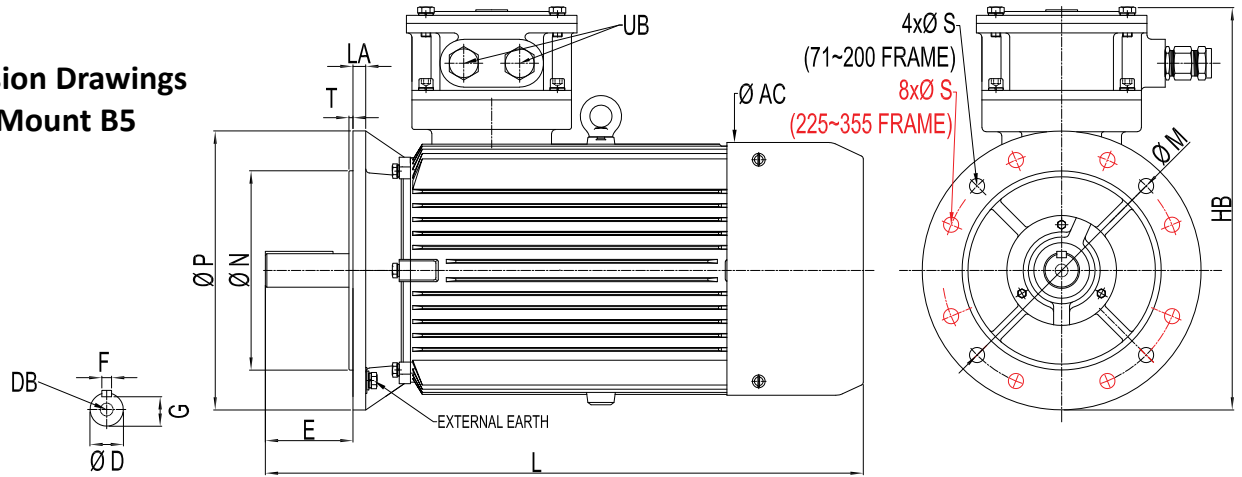
Dimension Drawings
Foot Mount B3



FRAME	A	B	C	D	DB	E	F	G	H	K	AA	AB	AC	BB	UB	HA	HD	L
71M	112	90	45	14	M5	30	5	11	71	7	32	144	141	120	1-M20x1.5	7	242	295
80M	125	100	50	19	M6	40	6	15.5	80	10	34	160	163	170	1-M25x1.5	10	310	375
90S	140	100	56	24	M8	50	8	20	90	10	36	176	180	173	1-M25x1.5	14	350	400
90L	140	125	56	24	M8	50	8	20	90	10	36	176	180	208	1-M25x1.5	14	350	420
100L	160	140	63	28	M10	60	8	24	100	12	39	200	210	190	1-M25x1.5	14	350	470
112M	190	140	70	28	M10	60	8	24	112	12	49	240	221	180	2-M32x1.5	16	375	465
132S	216	140	89	38	M12	80	10	33	132	12	60	276	282	195	2-M32x1.5	18	419	525
132M	216	178	89	38	M12	80	10	33	132	12	60	276	282	220	2-M32x1.5	18	419	550
160M	254	210	108	42	M16	110	12	37	160	15	70	330	330	255	2-M32x1.5	20	495	720
160L	254	254	108	42	M16	110	12	37	160	15	70	330	330	300	2-M32x1.5	20	495	750
180M	279	241	121	48	M16	110	14	42.5	180	15	72	355	360	350	2-M32x1.5	22	525	770
180L	279	279	121	48	M16	110	14	42.5	180	15	72	355	360	370	2-M32x1.5	22	525	790
200L	318	305	133	55	M20	110	16	49	200	19	74	390	400	436	2-M50x.1.5	25	600	890
225S	356	286	149	60	M20	140	18	53	225	19	78	434	448	355	2-M50x.1.5	28	650	924
225M*	356	311	149	55	M20	110	16	49	225	19	78	434	448	390	2-M50x.1.5	28	650	919
225M	356	311	149	60	M20	140	18	53	225	19	78	434	448	390	2-M50x.1.5	28	650	949
250M*	406	349	168	60	M20	140	18	53	250	24	82	486	510	420	2-M63x1.5	30	720	930
250M	406	349	168	65	M20	140	18	58	250	24	82	486	510	420	2-M63x1.5	30	720	930
280S*	457	368	190	65	M20	140	18	58	280	24	90	545	548	460	2-M63x1.5	35	775	1000
280S	457	368	190	75	M20	140	20	67.5	280	24	90	545	548	460	2-M63x1.5	35	775	1000
280M*	457	419	190	65	M20	140	18	58	280	24	90	545	548	510	2-M63x1.5	35	775	1070
280M	457	419	190	75	M20	140	20	67.5	280	24	90	545	548	510	2-M63x1.5	35	775	1070
315S*	508	406	216	65	M20	140	18	58	315	28	120	630	630	570	2-M63x1.5	45	980	1210
315S	508	406	216	80	M20	170	22	71	315	28	120	630	630	570	2-M63x1.5	45	980	1240
315M*	508	457	216	65	M20	140	18	58	315	28	120	630	630	680	2-M63x1.5	45	980	1320
315M	508	457	216	80	M20	170	22	71	315	28	120	630	630	680	2-M63x1.5	45	980	1350
315L*	508	508	216	65	M20	140	18	58	315	28	120	630	630	680	2-M63x1.5	45	980	1320
315L	508	508	216	80	M20	170	22	71	315	28	120	630	630	680	2-M63x1.5	45	980	1350
355S*	610	500	254	75	M20	140	20	67.5	355	28	120	730	730	640	2-M63x1.5	52	1080	1420
355S	610	500	254	95	M20	170	25	86	355	28	120	730	730	640	2-M63x1.5	52	1080	1450
355M*	610	560	254	75	M20	140	20	67.5	355	28	120	730	730	700	2-M63x1.5	52	1080	1500
355M	610	560	254	95	M20	170	25	86	355	28	120	730	730	700	2-M63x1.5	52	1080	1530
355L*	610	630	254	75	M20	140	20	67.5	355	28	120	730	730	770	2-M63x1.5	52	1080	1600
355L	610	630	254	95	M20	170	25	86	355	28	120	730	730	770	2-M63x1.5	52	1080	1630

* FOR 2 POLE MOTOR ONLY

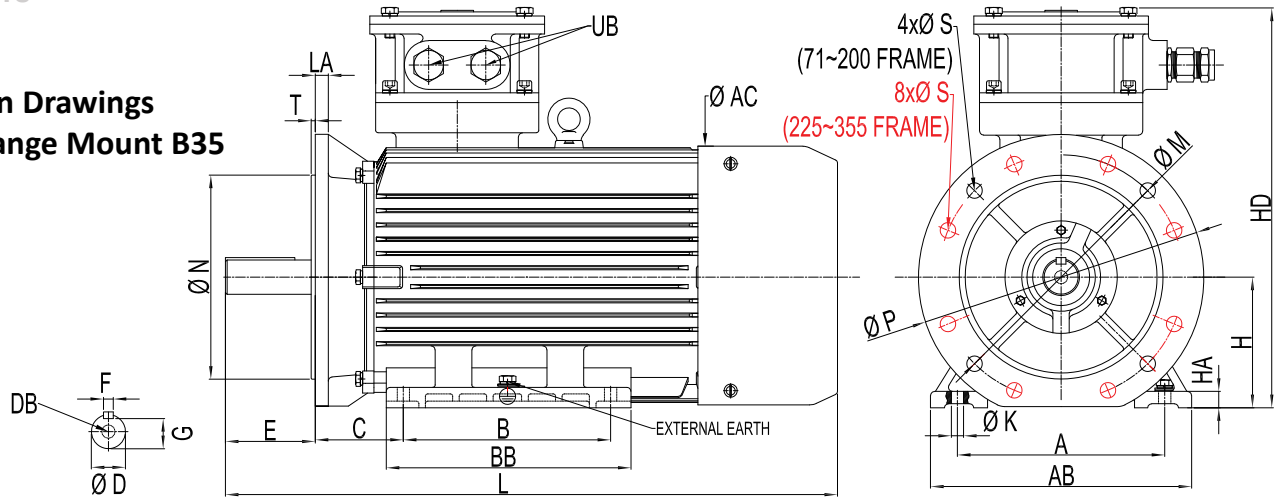
**Dimension Drawings
Flange Mount B5**



FRAME	D	DB	E	F	G	M	N	P	S	T	AC	UB	HB	LA	L
71M	14	M5	30	5	11	130	110	160	10	3.5	141	1-M20x1.5	251	6.5	295
80M	19	M6	40	6	15.5	165	130	200	12	3.5	163	1-M25x1.5	330	12	375
90S	24	M8	50	8	20	165	130	200	12	3.5	180	1-M25x1.5	330	12	400
90L	24	M8	50	8	20	165	130	200	12	3.5	180	1-M25x1.5	330	12	420
100L	28	M10	60	8	24	215	180	250	15	4	210	1-M25x1.5	370	14	470
112M	28	M10	60	8	24	215	180	250	15	4	221	2-M32x1.5	385	14	465
132S	38	M12	80	10	33	265	230	300	15	4	282	2-M32x1.5	437	14	525
132M	38	M12	80	10	33	265	230	300	15	4	282	2-M32x1.5	437	14	550
160M	42	M16	110	12	37	300	250	350	19	5	330	2-M32x1.5	505	16	720
160L	42	M16	110	12	37	300	250	350	19	5	330	2-M32x1.5	505	16	750
180M	48	M16	110	14	42.5	300	250	350	19	5	360	2-M32x1.5	520	18	770
180L	48	M16	110	14	42.5	300	250	350	19	5	360	2-M32x1.5	520	18	790
200L	55	M20	110	16	49	350	300	400	19	5	400	2-M50x.1.5	587	18	890
225S	60	M20	140	18	53	400	350	450	19	5	448	2-M50x.1.5	648	20	924
225M*	55	M20	110	16	49	400	350	450	19	5	448	2-M50x.1.5	648	20	919
225M	60	M20	140	18	53	400	350	450	19	5	448	2-M50x.1.5	648	20	949
250M*	60	M20	140	18	53	500	450	550	19	5	510	2-M63x1.5	738	22	930
250M	65	M20	140	18	58	500	450	550	19	5	510	2-M63x1.5	738	22	930
280S*	65	M20	140	18	58	500	450	550	19	5	548	2-M63x1.5	765	22	1000
280S	75	M20	140	20	67.5	500	450	550	19	5	548	2-M63x1.5	765	22	1000
280M*	65	M20	140	18	58	500	450	550	19	5	548	2-M63x1.5	765	22	1070
280M	75	M20	140	20	67.5	500	450	550	19	5	548	2-M63x1.5	765	22	1070
315S*	65	M20	140	18	58	600	550	660	24	6	630	2-M63x1.5	984	25	1210
315S	80	M20	170	22	71	600	550	660	24	6	630	2-M63x1.5	984	25	1240
315M*	65	M20	140	18	58	600	550	660	24	6	630	2-M63x1.5	984	25	1320
315M	80	M20	170	22	71	600	550	660	24	6	630	2-M63x1.5	984	25	1350
315L*	65	M20	140	18	58	600	550	660	24	6	630	2-M63x1.5	984	25	1320
315L	80	M20	170	22	71	600	550	660	24	6	630	2-M63x1.5	984	25	1350
355S*	75	M20	140	20	67.5	740	680	800	24	6	730	2-M63x1.5	1070	25	1420
355S*	95	M20	170	25	86	740	680	800	24	6	730	2-M63x1.5	1070	25	1450
355M*	75	M20	140	20	67.5	740	680	800	24	6	730	2-M63x1.5	1070	25	1500
355M	95	M20	170	25	86	740	680	800	24	6	730	2-M63x1.5	1070	25	1530
355L*	75	M20	140	20	67.5	740	680	800	24	6	730	2-M63x1.5	1070	25	1600
355L	95	M20	170	25	86	740	680	800	24	6	730	2-M63x1.5	1070	25	1630

* FOR 2 POLE MOTOR ONLY

**Dimension Drawings
Foot & Flange Mount B35**



FRAME	A	B	C	D	DB	E	F	G	H	K	AB	M	N	P	S	T	AC	BB	UB	HA	HD	LA	L
71M	112	90	45	14	M5	30	5	11	71	7	144	130	110	160	10	3.5	141	120	1-M20x1.5	7	242	6.5	295
80M	125	100	50	19	M6	40	6	15.5	80	10	160	165	130	200	12	3.5	163	170	1-M25x1.5	10	310	12	375
90S	140	100	56	24	M8	50	8	20	90	10	176	165	130	200	12	3.5	180	173	1-M25x1.5	14	350	12	400
90L	140	125	56	24	M8	50	8	20	90	10	176	165	130	200	12	3.5	180	208	1-M25x1.5	14	350	12	420
100L	160	140	63	28	M10	60	8	24	100	12	200	215	180	250	15	4	210	190	1-M25x1.5	15	350	14	470
112M	190	140	70	28	M10	60	8	24	112	12	240	215	180	250	15	4	221	180	2-M32x1.5	16	375	14	465
132S	216	140	89	38	M12	80	10	33	132	12	276	265	230	300	15	4	282	195	2-M32x1.5	18	419	14	525
132M	216	178	89	38	M12	80	10	33	132	12	276	265	230	300	15	4	282	220	2-M32x1.5	18	419	14	550
160M	254	210	108	42	M16	110	12	37	160	15	330	300	250	350	19	5	330	255	2-M32x1.5	20	495	16	720
160L	254	254	108	42	M16	110	12	37	160	15	330	300	250	350	19	5	330	300	2-M32x1.5	20	495	16	750
180M	279	241	121	48	M16	110	14	42.5	180	15	355	300	250	350	19	5	360	350	2-M32x1.5	22	525	18	770
180L	279	279	121	48	M16	110	14	42.5	180	15	355	300	250	350	19	5	360	370	2-M32x1.5	22	525	18	790
200L	318	305	133	55	M20	110	16	49	200	19	390	350	300	400	19	5	400	436	2-M50x1.5	25	600	18	890
225S	356	286	149	60	M20	140	18	53	225	19	434	400	350	450	19	5	448	355	2-M50x1.5	28	650	20	924
225M*	356	311	149	55	M20	110	16	49	225	19	434	400	350	450	19	5	448	390	2-M50x1.5	28	650	20	919
225M	356	311	149	60	M20	140	18	53	225	19	434	400	350	450	19	5	448	390	2-M50x1.5	28	650	20	949
250M*	406	349	168	60	M20	140	18	53	250	24	486	500	450	550	19	5	510	420	2-M63x1.5	30	720	22	930
250M	406	349	168	65	M20	140	18	58	250	24	486	500	450	550	19	5	510	420	2-M63x1.5	30	720	22	930
280S*	457	368	190	65	M20	140	18	58	280	24	545	500	450	550	19	5	548	460	2-M63x1.5	35	775	22	1000
280S	457	368	190	75	M20	140	20	67.5	280	24	545	500	450	550	19	5	548	460	2-M63x1.5	35	775	22	1000
280M*	457	419	190	65	M20	140	18	58	280	24	545	500	450	550	19	5	548	510	2-M63x1.5	35	775	22	1070
280M	457	419	190	75	M20	140	20	67.5	280	24	545	500	450	550	19	5	548	510	2-M63x1.5	35	775	22	1070
315S*	508	406	216	65	M20	140	18	58	315	28	630	600	550	660	24	6	630	570	2-M63x1.5	45	980	25	1210
315S	508	406	216	80	M20	170	22	71	315	28	630	600	550	660	24	6	630	570	2-M63x1.5	45	980	25	1240
315M*	508	457	216	65	M20	140	18	58	315	28	630	600	550	660	24	6	630	680	2-M63x1.5	45	980	25	1320
315M	508	457	216	80	M20	170	22	71	315	28	630	600	550	660	24	6	630	680	2-M63x1.5	45	980	25	1350
315L*	508	508	216	65	M20	140	18	58	315	28	630	600	550	660	24	6	630	680	2-M63x1.5	45	980	25	1320
315L	508	508	216	80	M20	170	22	71	315	28	630	600	550	660	24	6	630	680	2-M63x1.5	45	980	25	1350
355S*	610	500	254	75	M20	140	20	67.5	355	28	730	740	680	800	24	6	730	640	2-M63x1.5	52	1080	25	1420
355S*	610	500	254	95	M20	170	25	86	355	28	730	740	680	800	24	6	730	640	2-M63x1.5	52	1080	25	1450
355M*	610	560	254	75	M20	140	20	67.5	355	28	730	740	680	800	24	6	730	700	2-M63x1.5	52	1080	25	1500
355M	610	560	254	95	M20	170	25	86	355	28	730	740	680	800	24	6	730	700	2-M63x1.5	52	1080	25	1530
355L*	610	630	254	75	M20	140	20	67.5	355	28	730	740	680	800	24	6	730	770	2-M63x1.5	52	1080	25	1600
355L	610	630	254	95	M20	170	25	86	355	28	730	740	680	800	24	6	730	770	2-M63x1.5	52	1080	25	1630

* FOR 2 POLE MOTOR ONLY



IECEX Test Report Summary

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

ExTR Ref. No.: **NL/CNEX/ExTR22.0009/01** Page 1 of 1

ExTR Free Ref. No.: **23148** Status:**Issued**

Details of change: Addition of Trade Agent marking for:
CMP ELECTRIC MOTOR (AISA PACIFIC) SDN BHD
(1302330-V).
No.26-3, PSRN PUTERI 1 BANDAR PUTERI ,47100
PUCHONG SELANGOR, MALAYSIA Date of issue:**2024-03-13**

List of Standards Covered: [IEC 60079-0:2017 Edition:7.0](#) , [IEC 60079-1:2014 Edition:7.0](#)

Issuing ExTL: **CQST - China National Quality Supervision and Test**

Endorsing ExCB: **CNEX - CNEX-Global B.V.**

Manufacturer: **Anhui Wannan Electric Machine Co., Ltd.**
86 Nanhua Road,
21 Yangong Road,
Jingchuan Town, Jingxian County, Anhui Province

Location of Manufacturer: **China**

Ex Protection: **Ex db IIC T4 Gb**

Ratings: **Various, see certificate.**

Equipment: **Flameproof three-phase induction motors model YBX3**

Model Reference: **YBX3-71...355 (IIC)**

Related IECEx Certificates:
[IECEX CNEX 22.0009X Issue 1](#)

Comments:

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