

THOMPSON

Electric Industries INC

CATALOGUE

HIGH-EFFICIENCY

EX D/EEX D Flameproof Motors



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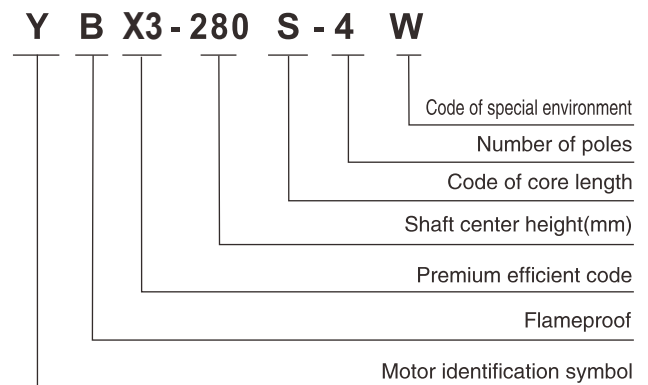
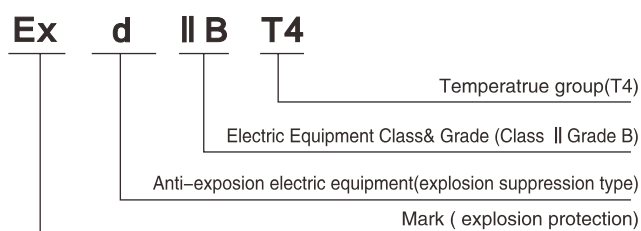
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GENERALIZATION

YBX3 series high efficiency and premium efficiency flameproof three-phase asynchronous motors, is the upgraded version of YB3 series, developed by combining the current market situation and aiming at the same level of Siemens.

This series of motors has the explosion-proof performance meeting the specification in standard GB3836.1-2010 Electric equipment for explosive atmosphere, Part 1: general requirement and GB3836.2-2010 Electric equipment for explosive atmosphere, Part 2: Flameproof class "d", and is in compliance with IEC79-1 and DIN EN50014-50020. It has explosive mark Exd I Mb, Exd II AT4 Gb, Exd IIBT4 Gb and is applicable for locations where the explosive gas mixture exists. Exd I is applicable for the underground environment of coal mines with methane or coal dust. Exd II AT4 and Exd II BT4 are applicable for factory with II type A and B class, and locations where T1, T2, T3 and T4 explosive gas mixture exists.

Explanation of Ex marking and designation



TECHNICAL FEATURES

- High efficiency
In compliance with IE3, IE2 of IEC60034-30-1:2014, and GB2, GB3 of GB18613-2012.
- Dual frequency, wide voltage
the rated voltage is 220V-690V, 50HZ and 60HZ supplies applicable.
- Low noise
The YB, YB2, YB3 range has been designed to minimize motors noise levels, by means of improving magnetic and electrical design, ventilator condition, and structure assembling size and technology.
- The flameproof construction for Exd I Mb, Exd II AT4 Gb, Exd II BT4 Gb are available.
- The degree of protection is IP55 for motor main enclosures.
- The cooling form is IC411.
- The stator windings are of Class F insulation and long service life.
- A cylindrical shaft extension is equipped on motors, which is driven by coupling or spur gearing.
- The stator windings are wound with polyester enamel round wire of high strength and then treated with the progress of vacuum-pressure impregnation to make them become a solid integral. Therefore, the winding insulation is excellent in electrical and, mechanical properties, moisture resistance and thermal stability.
- The rotors are of cast-aluminum, and dynamically balanced to make the motor operate smoothly with small vibration and low noise.
- The stator and rotor cores are laminated with high-class cold-rolled electrical steel sheet with high permeability and low loss, thus makes the motors possess low loss and high efficiency.
- The motors are fitted with low vibration and low noise bearings special for motors, for the motors of frame size 160 and below, bilaterally shielded ball bearings are used and corrugated spring washers at the driving ends pressed on bearings with proper pressure to restrain effectively the vibration and noise produced during motors' operation. For the motors of frame size 180 and above, the bearings with inner and outer covers are used and retaining rings at bearing position are equipped on shafts to prevent the rotor efficiently from moving axially. In order to operate safely and reliable, the bearings of the motors frame size 180 and above are provided with greasing Attachments, which are of the use to drain or replenish the lubricating grease with our stopping the motors. For the frame size 250 and above, the positions for mounting bearing temperature monitoring sensors are preliminary left.
- For the motors of frame size 280 and below, the fans are made of frictional electric proof, being of small inertia movement and low loss characterize. However, for the motors of frame 315 and above, cast-aluminum or steel-plate-welded fans are fitted which are of lightweight and high strength. For the whole series motors, the fans are key-jointed on the shaft to make the motor operation safely and reliable. The cowls are made of fabricated steel plate. On a prerequisite of preventing from the ingress of solid substances of certain size, they enable the motors to get maximum area of ventilation in order to form adequate currents.
- Terminal box: The protection degree for the enclosure is IP55. The terminal box is located at the top of the motor. The inside of the terminal box is spacious and easily accessible. Cables can be fitted either from left or right side of the terminal box. Lead-in can be of rubber sheathed cable or steel pipe wiring. According to different requirement of starting the motor, the terminal box is made of either one entry for direct starting or double entry for Y-Δ starting. Threaded flameproof structure is provided between the terminal box and the main space of the frame. Between the terminal box base and the connecting funnel a connecting sleeve is equipped with rubber pad fitted inside for hermetic seal. When servicing, it is not necessary to remove the rubber pad, only the connecting sleeve is to be removed, to ensure flameproof. The terminal box is designed to have three or six terminals upon request. A terminal for grounding is provided in the terminal box for safety.

OPERATING CONDITIONS

Ambient temperature : $-15^{\circ}\text{C} \leq \theta \leq 40^{\circ}\text{C}$

Altitude: Up to 1000m above sea level

Rated voltage: 220/380V 230/400V 380/660V 400/690V

Rated frequency: 50HZ 60HZ

Connection: Star for 3KW and below, Delta for 4KW and above

Duty Type: Continuous (S1)

Explosion-proof marks: ExdI Mb 、 ExdIIT4 Gb、 ExdIIBT4 Gb

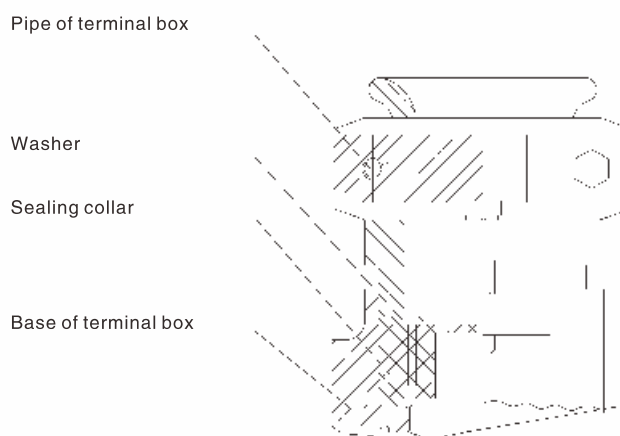
Insulation Class: F with a temperature rise 80K

Protection Degree: IP54 or IP55 for motor body, IP55 for terminal box

Cooling Method: IC411

TERMINAL BOX

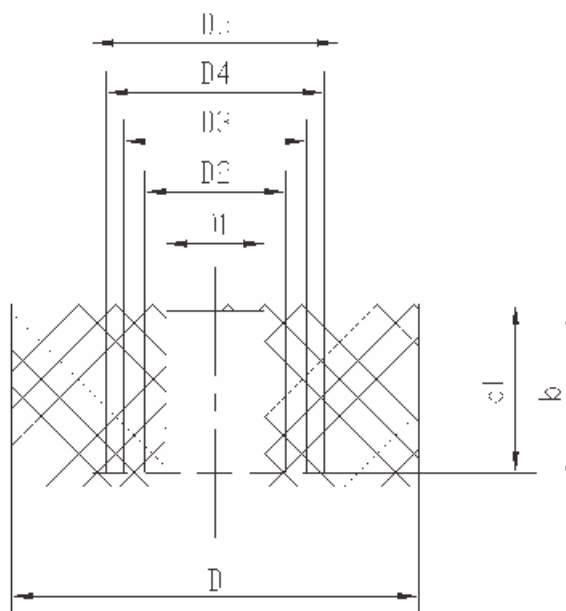
THE POSITION OF TERMINAL BOX IS ON TOP OF THE MOTOR, THE POWER CABLE CAN BE LED OUT THROUGH THE OUTLET OF THE TERMINAL BOX IN FOUR DIRECTIONS BY TURNING THE BOX AT ANY ONE OF THE FOUR POSITIONS WITH 90 DEGREE. THERE IS A SEALING CONSTRUCTION AT THE OUTLET (DETAILS, SEE FIGURE)



CABLE ENTRY

Classified no	Frame size	Max.fl.amps	Entry size
1	H63-80	2.6	1×M20×1.5
2	H90-100	6.8	1×M20×1.5
3	H112-132	15.4	2×M32×1.5
4	H160-180	42.5	2×M40×1.5
5	H200-225	84.2	2×M50×1.5
6	H250-280	166.6	2×M63×1.5
7	H315	358	2×M63×1.5
8	H355	546	2×M63×1.5

DIMENSIONS OF THE SEALING GASKET



Sealing gasket dimensions in various frame size(single cable entry)

Frame Size	DIMENSIONS(mm)							
	D	D1	D2	D3	D4	D5	b1	b
63-132	Φ42	Φ14	Φ20	Φ25	-	-	24	26
160-180	Φ58	Φ14	Φ20	Φ26	Φ31	Φ35	28.8	31.2
200-225	Φ72	Φ20	Φ26	Φ32	Φ38	Φ42	30	32
250-280	Φ90	Φ25	Φ31	Φ36	Φ45	Φ50	36	38
315-355	Φ105	Φ40	Φ46	Φ51	Φ57	Φ64	42	45

Sealing gasket dimensions in various frame size(Double cable entry)

Frame Size	DIMENSIONS(mm)							
	D	D1	D2	D3	D4	D5	b1	b
63-132	-	-	-	-	-	-	-	-
160-180	-	-	-	-	-	-	-	-
200-225	-	-	-	-	-	-	-	-
250-280	Φ72	Φ20	Φ26	Φ32	Φ38	Φ42	30	32
315-355	Φ90	Φ31	Φ36	Φ45	Φ50	-	36	38

SPEED 3000RPM 2-POLE 50HZ

Type	Rated Output		Rated Speed rpm	Efficiency η %	Efficiency at 75% load	Efficiency at 50% load	Power factor $\cos\Phi$	Rated current A			Rated Torque Nm	$\frac{T_s}{T_n}$	$\frac{T_{max}}{T_n}$	$\frac{I_s}{I_n}$	Moment (J) kgm^2	Noise LwdB (A)	Weight kg
	kW	HP						380V	400V	415V							
YBX3-631-2	0.18	0.25	2730	65.9	65.9	64.6	0.80	0.52	0.49	0.47	0.63	2.2	2.2	5.5	0.0002	61	16.5
YBX3-632-2	0.25	0.37	2730	69.7	69.7	68.3	0.81	0.67	0.64	0.62	0.87	2.2	2.2	5.5	0.0005	61	18
YBX3-711-2	0.37	0.5	2750	73.8	73.8	72.3	0.81	0.94	0.89	0.86	1.28	2.2	2.2	6.1	0.0008	64	20.5
YBX3-712-2	0.55	0.75	2750	77.8	77.8	76.2	0.82	1.31	1.24	1.20	1.91	2.3	2.3	6.1	0.0009	64	21.5
YBX3-80M1-2	0.75	1	2880	80.7	80.7	79.1	0.82	1.72	1.64	1.58	2.49	2.3	2.3	7.0	0.0011	72	42
YBX3-80M2-2	1.1	1.5	2880	82.7	82.7	81.0	0.83	2.43	2.31	2.23	3.65	2.2	2.3	7.3	0.0013	72	45
YBX3-90S-2	1.5	2	2895	84.2	84.2	82.5	0.84	3.22	3.06	2.95	4.95	2.2	2.3	7.6	0.0016	76	53
YBX3-90L-2	2.2	3	2895	85.9	85.9	84.2	0.85	4.58	4.35	4.19	7.26	2.2	2.3	7.6	0.0019	77	56
YBX3-100L-2	3	4	2895	87.1	87.1	85.4	0.87	6.02	5.71	5.51	9.90	2.2	2.3	7.8	0.0034	80	70
YBX3-112M-2	4	5.5	2905	88.1	88.1	86.3	0.88	7.84	7.45	7.18	13.1	2.2	2.3	8.3	0.007	80	90
YBX3-132S1-2	5.5	7.5	2930	89.2	89.2	87.4	0.88	10.6	10.1	9.75	17.9	2.0	2.3	8.3	0.013	82	106
YBX3-132S2-2	7.5	10	2930	90.1	90.1	88.3	0.88	14.4	13.7	13.2	24.4	2.0	2.3	7.9	0.016	82	112
YBX3-160M1-2	11	15	2945	91.2	91.2	89.4	0.89	20.6	19.6	18.9	35.7	2.0	2.3	8.1	0.042	82	160
YBX3-160M2-2	15	20	2945	91.9	91.9	90.1	0.89	27.9	26.5	25.5	48.6	2.0	2.3	8.1	0.053	85	175
YBX3-160L-2	18.5	25	2940	92.4	92.4	90.6	0.89	34.2	32.5	31.3	60.1	2.0	2.3	8.2	0.061	87	192
YBX3-180M-2	22	30	2955	92.7	92.7	90.8	0.89	40.5	38.5	37.1	71.1	2.0	2.3	8.2	0.095	87	252
YBX3-200L1-2	30	40	2960	93.3	93.3	91.4	0.89	54.9	52.1	50.3	96.8	2.0	2.3	7.6	0.15	89	331
YBX3-200L2-2	37	50	2960	93.7	93.7	91.8	0.89	67.4	64.0	61.7	119.4	2.0	2.3	7.6	0.165	89	350
YBX3-225M-2	45	60	2965	94.0	94.0	92.1	0.90	80.8	76.8	74.0	144.9	2.0	2.3	7.7	0.246	91	461
YBX3-250M-2	55	75	2970	94.3	94.3	92.4	0.90	98.5	93.5	90.2	176.9	2.0	2.3	7.7	0.332	91	530
YBX3-280S-2	75	100	2975	94.7	94.7	92.8	0.90	134	127	122	240.8	1.8	2.3	7.1	0.653	95	715
YBX3-280M-2	90	125	2975	95.0	95.0	93.1	0.90	160	152	146	288.9	1.8	2.3	7.1	0.75	95	836
YBX3-315S-2	110	150	2978	95.2	95.2	93.3	0.90	195	185	179	352.8	1.8	2.3	7.1	1.32	95	1265
YBX3-315M-2	132	180	2978	95.4	95.4	93.5	0.90	234	222	214	423.3	1.8	2.3	7.1	2.1	95	1335
YBX3-315L1-2	160	200	2980	95.6	95.6	93.7	0.91	279	265	256	512.8	1.8	2.3	7.2	2.35	95	1552
YBX3-315L2-2	200	270	2980	95.8	95.8	93.9	0.91	349	331	319	640.9	1.8	2.2	7.2	2.72	95	1840
YBX3-355M2-2	250	340	2982	95.8	95.8	93.9	0.91	436	414	399	800.6	1.6	2.2	7.2	3.45	98	2415
YBX3-355L2-2	315	430	2982	95.8	95.8	93.9	0.91	549	522	503	1009	1.6	2.2	7.2	3.93	98	2670

SPEED 1500RPM 4-POLE 50HZ

Type	Rated Output		Rated Speed rpm	Efficiency η %	Efficiency at 75% load	Efficiency at 50% load	Power factor $\cos\Phi$	Rated current A			Rated Torque Nm	T_s Tn	T_{max} Tn	I_s In	Moment (J) kgm^2	Noise LwdB (A)	Weight kg
	kW	HP						380V	400V	415V							
YBX3-631-4	0.12	0.18	1320	64.8	64.8	63.5	0.72	0.39	0.37	0.36	0.87	2.1	2.2	4.4	0.00022	52	18.5
YBX3-632-4	0.18	0.25	1320	69.9	69.9	68.5	0.73	0.54	0.51	0.49	1.30	2.1	2.2	4.4	0.00048	52	19
YBX3-711-4	0.25	0.37	1340	73.5	73.5	72.0	0.74	0.70	0.66	0.64	1.78	2.1	2.2	5.2	0.00085	55	21
YBX3-712-4	0.37	0.5	1340	77.3	77.3	75.8	0.75	0.97	0.92	0.89	2.64	2.1	2.2	5.2	0.00095	55	21.5
YBX3-80M1-4	0.55	0.75	1400	80.8	80.8	79.2	0.75	1.38	1.31	1.26	3.75	2.4	2.3	5.2	0.0022	58	42
YBX3-80M2-4	0.75	1	1420	82.5	82.5	80.9	0.75	1.84	1.75	1.69	5.04	2.3	2.3	6.6	0.0028	58	45
YBX3-90S-4	1.1	1.5	1445	84.1	84.1	82.4	0.76	2.61	2.48	2.39	7.27	2.3	2.3	6.8	0.0033	61	50
YBX3-90L-4	1.5	2	1445	85.3	85.3	83.6	0.77	3.47	3.3	3.18	9.91	2.3	2.3	7.0	0.0038	61	56
YBX3-100L1-4	2.2	3	1435	86.7	86.7	85.0	0.81	4.76	4.52	4.36	14.6	2.3	2.3	7.6	0.0065	64	70
YBX3-100L2-4	3	4	1435	87.7	87.7	85.9	0.82	6.34	6.02	5.8	20.0	2.3	2.3	7.6	0.008	64	98
YBX3-112M-4	4	5.5	1440	88.6	88.6	86.8	0.82	8.37	7.95	7.66	26.5	2.2	2.3	7.8	0.012	65	116
YBX3-132S-4	5.5	7.5	1460	89.6	89.6	87.8	0.83	11.2	10.7	10.3	36.0	2.0	2.3	7.9	0.026	71	125
YBX3-132M-4	7.5	10	1460	90.4	90.4	88.6	0.84	15.0	14.3	13.7	49.1	2.0	2.3	7.5	0.035	71	126
YBX3-160M-4	11	15	1465	91.4	91.4	89.6	0.85	21.5	20.4	19.7	71.7	2.2	2.3	7.7	0.082	75	190
YBX3-160L-4	15	20	1465	92.1	92.1	90.3	0.86	28.8	27.3	26.3	97.8	2.2	2.3	7.8	0.096	75	212
YBX3-180M-4	18.5	25	1470	92.6	92.6	90.7	0.86	35.3	33.5	32.3	120.2	2.0	2.3	7.8	0.145	76	275
YBX3-180L-4	22	30	1470	93.0	93.0	91.1	0.86	41.8	39.7	38.3	142.9	2.0	2.3	7.8	0.17	76	302
YBX3-200L-4	30	40	1475	93.6	93.6	91.7	0.86	56.6	53.8	51.8	194.2	2.0	2.3	7.3	0.278	79	425
YBX3-225S-4	37	50	1485	93.9	93.9	92.0	0.86	69.6	66.1	63.7	237.9	2.0	2.3	7.4	0.44	81	460
YBX3-225M-4	45	60	1485	94.2	94.2	92.3	0.86	84.4	80.2	77.3	289.4	2.0	2.3	7.4	0.5	81	478
YBX3-250M-4	55	75	1485	94.6	94.6	92.7	0.86	103	97.6	94.1	353.7	2.2	2.3	7.4	0.695	83	675
YBX3-280S-4	75	100	1486	95.0	95.0	93.1	0.88	136	129	125	482.0	2.0	2.3	6.9	1.22	86	780
YBX3-280M-4	90	125	1486	95.2	95.2	93.3	0.88	163	155	149	578.4	2.0	2.3	6.9	1.49	86	915
YBX3-315S-4	110	150	1488	95.4	95.4	93.5	0.89	197	187	180	706.0	2.0	2.2	7.0	3.49	93	1325
YBX3-315M-4	132	180	1488	95.6	95.6	93.7	0.89	236	224	216	847.2	2.0	2.2	7.0	3.67	94	1385
YBX3-315L1-4	160	200	1488	95.8	95.8	93.9	0.89	285	271	261	1027	2.0	2.2	7.1	4.25	94	1520
YBX3-315L2-4	200	270	1490	96.0	96.0	94.1	0.90	352	334	322	1282	2.0	2.2	7.1	5.2	94	2070
YBX3-355M2-4	250	340	1490	96.0	96.0	94.1	0.90	440	418	403	1602	2.0	2.2	7.1	7.1	95	2395
YBX3-355L2-4	315	430	1490	96.0	96.0	94.1	0.90	554	526	507	2019	2.0	2.2	7.1	8.8	95.0	2990

SPEED 1000RPM 6-POLE 50HZ

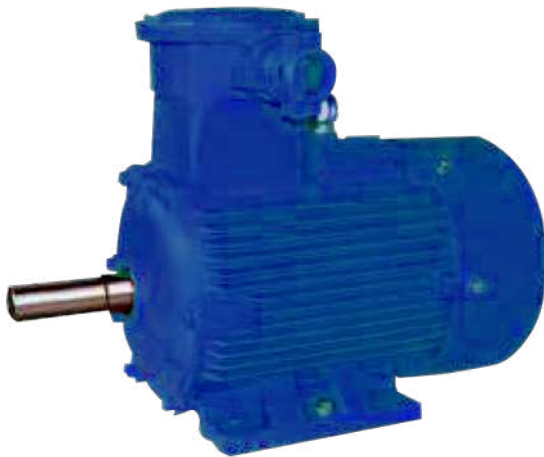
Type	Rated Output		Rated Speed rpm	Efficiency η %	Efficiency at 75% load	Efficiency at 50% load	Power factor $\cos\Phi$	Rated current A			Rated Torque Nm	$\frac{T_s}{T_n}$	$\frac{T_{max}}{T_n}$	$\frac{I_s}{I_n}$	Moment (J) kgm^2	Noise LwdB (A)	Weight kg
	kW	HP						380V	400V	415V							
YBX3-711-6	0.18	0.25	855	63.9	63.9	62.6	0.66	0.65	0.62	0.59	2.01	1.9	2.0	4.0	0.00081	52	20.5
YBX3-712-6	0.25	0.37	855	68.6	68.6	67.2	0.68	0.81	0.77	0.75	2.79	1.9	2.0	4.0	0.00092	52	22
YBX3-80M1-6	0.37	0.5	890	73.5	73.5	72.0	0.70	1.09	1.04	1.00	3.97	1.9	2.0	4.7	0.0024	54	45
YBX3-80M2-6	0.55	0.75	890	77.2	77.2	75.7	0.72	1.50	1.43	1.38	5.90	1.9	2.1	4.7	0.0026	54	50
YBX3-90S-6	0.75	1	935	78.9	78.9	77.3	0.71	2.03	1.93	1.86	7.66	2.0	2.1	6.0	0.0037	57	68
YBX3-90L-6	1.1	1.5	945	81.0	81.0	79.4	0.73	2.83	2.69	2.59	11.1	2.0	2.1	6.0	0.0048	57	72
YBX3-100L-6	1.5	2	949	82.5	82.5	80.9	0.73	3.78	3.59	3.47	15.1	2.0	2.1	6.5	0.0096	61	88
YBX3-112M-6	2.2	3	955	84.3	84.3	82.6	0.74	5.36	5.09	4.91	22.0	2.0	2.1	6.6	0.016	65	106
YBX3-132S-6	3	4	968	85.6	85.6	83.9	0.74	7.20	6.84	6.59	29.6	2.0	2.1	6.8	0.033	69	115
YBX3-132M1-6	4	5.5	968	86.8	86.8	85.1	0.74	9.46	8.99	8.66	39.5	2.0	2.1	6.8	0.039	69	118
YBX3-132M2-6	5.5	7.5	968	88.0	88.0	86.2	0.75	12.7	12.0	11.6	54.3	2.0	2.1	7.0	0.045	69	125
YBX3-160M-6	7.5	10	970	89.1	89.1	87.3	0.79	16.2	15.4	14.8	73.8	2.0	2.1	7.0	0.096	73	179
YBX3-160L-6	11	15	970	90.3	90.3	88.5	0.80	23.1	22.0	21.2	108.3	2.0	2.1	7.2	0.14	73	205
YBX3-180L-6	15	20	978	91.2	91.2	89.4	0.81	30.9	29.3	28.2	146.5	2.0	2.1	7.3	0.23	73	260
YBX3-200L1-6	18.5	25	980	91.7	91.7	89.9	0.81	37.8	35.9	34.7	180.3	2.0	2.1	7.3	0.33	76	335
YBX3-200L2-6	22	30	980	92.2	92.2	90.4	0.81	44.8	42.5	41.0	214.4	2.0	2.1	7.4	0.37	76	362
YBX3-225M-6	30	40	980	92.9	92.9	91.0	0.83	59.1	56.2	54.1	292.3	2.0	2.1	6.9	0.56	76	475
YBX3-250M-6	37	50	985	93.3	93.3	91.4	0.84	71.7	68.1	65.7	358.7	2.0	2.1	7.1	0.85	80	605
YBX3-280S-6	45	60	985	93.7	93.7	91.8	0.85	85.8	81.6	78.6	436.3	2.0	2.0	7.3	1.45	80	730
YBX3-280M-6	55	75	985	94.1	94.1	92.2	0.86	103	98.1	94.6	533.2	2.0	2.0	7.3	1.8	85	840
YBX3-315S-6	75	100	985	94.6	94.6	92.7	0.84	143	136	131	727.2	2.0	2.0	6.6	4.3	85	1245
YBX3-315M-6	90	125	988	94.9	94.9	93.0	0.85	170	161	155	869.9	2.0	2.0	6.7	5.01	85	1315
YBX3-315L1-6	110	150	988	95.1	95.1	93.2	0.85	207	196	189	1063	2.0	2.0	6.7	5.6	85	1506
YBX3-315L2-6	132	180	988	95.4	95.4	93.5	0.86	244	232	224	1276	2.0	2.0	6.8	6.6	92	1612
YBX3-355S-6	160	200	990	95.6	95.6	93.7	0.86	296	281	271	1543	1.8	2.0	6.8	10.5	92	2025
YBX3-355M2-6	200	270	990	95.8	95.8	93.9	0.87	365	346	334	1929	1.8	2.0	6.8	11.5	92	2265
YBX3-355L2-6	250	340	990	95.8	95.8	93.9	0.87	456	433	417	2412	1.8	2.0	6.8	13.2	92	2590

SPEED 750RPM 8-POLE 50HZ

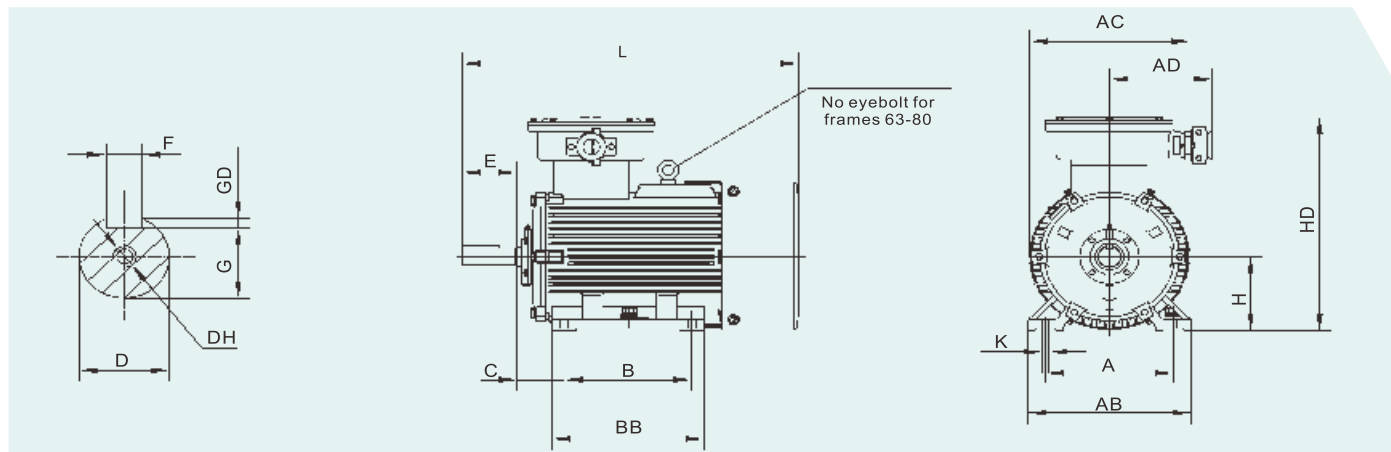
Type	Rated Output		Rated Speed rpm	Efficiency η %	Efficiency at 75% load	Efficiency at 50% load	Power factor $\cos\Phi$	Rated current A			Rated Torque Nm	$\frac{T_s}{T_n}$	$\frac{T_{max}}{T_n}$	$\frac{I_s}{I_n}$	Moment (J) kgm^2	Noise LwdB (A)	Weight kg
	kW	HP						380V	400V	415V							
YBX3-80M1-8	0.18	0.25	650	58.7	58.7	57.5	0.61	0.76	0.73	0.70	2.64	1.8	1.9	3.3	0.003	52	42
YBX3-80M2-8	0.25	0.37	650	64.1	64.1	62.8	0.61	0.97	0.92	0.89	3.67	1.8	1.9	3.3	0.005	52	46
YBX3-90S-8	0.37	0.5	675	69.3	69.3	67.9	0.61	1.33	1.26	1.22	5.23	1.8	1.9	4.0	0.006	56	52
YBX3-90L-8	0.55	0.75	675	73.0	73.0	71.5	0.61	1.88	1.78	1.72	7.78	1.8	2.0	4.0	0.008	56	56
YBX3-100L1-8	0.75	1	685	75.0	75.0	73.5	0.67	2.27	2.15	2.08	10.5	1.8	2.0	4.0	0.015	59	71
YBX3-100L2-8	1.1	1.5	685	77.7	77.7	76.1	0.69	3.12	2.96	2.85	15.3	1.8	2.0	5.0	0.02	59	88
YBX3-112M-8	1.5	2	695	79.7	79.7	78.1	0.70	4.08	3.88	3.74	20.6	1.8	2.0	5.0	0.05	61	105
YBX3-132S-8	2.2	3	710	81.9	81.9	80.3	0.71	5.75	5.46	5.26	29.6	1.8	2.0	6.0	0.08	64	113
YBX3-132M-8	3	4	710	83.5	83.5	81.8	0.73	7.48	7.10	6.85	40.4	1.8	2.0	6.0	0.1	64	120
YBX3-160M1-8	4	5.5	725	84.8	84.8	83.1	0.73	9.82	9.33	8.99	52.7	1.9	2.0	6.0	0.13	68	150
YBX3-160M2-8	5.5	7.5	725	86.2	86.2	84.5	0.74	13.1	12.4	12.0	72.4	1.9	2.0	6.0	0.18	68	165
YBX3-160L-8	7.5	10	725	87.3	87.3	85.6	0.75	17.4	16.5	15.9	98.8	1.9	2.0	6.0	0.26	68	200
YBX3-180L-8	11	15	735	88.6	88.6	86.8	0.75	25.2	23.9	23.0	142.9	2.0	2.0	6.5	0.35	70	258
YBX3-200L-8	15	20	730	89.6	89.6	87.8	0.76	33.5	31.8	30.6	196.2	2.0	2.0	6.6	0.39	73	265
YBX3-225S-8	18.5	25	730	90.1	90.1	88.3	0.76	41.0	39.0	37.6	242.0	1.9	2.0	6.6	0.6	73	430
YBX3-225M-8	22	30	730	90.6	90.6	88.8	0.78	47.3	44.9	43.3	287.8	1.9	2.0	6.6	0.9	73	455
YBX3-250M-8	30	40	735	91.3	91.3	89.5	0.79	63.2	60.0	57.9	389.8	1.9	2.0	6.5	1.5	75	610
YBX3-280S-8	37	50	735	91.8	91.8	90.0	0.79	77.5	73.6	71.0	480.7	1.9	2.0	6.6	1.9	76	695
YBX3-280M-8	45	60	735	92.2	92.2	90.4	0.79	93.9	89.2	85.9	584.7	1.9	2.0	6.6	4.5	76	805
YBX3-315S-8	55	75	735	92.5	92.5	90.7	0.81	112	106	102	714.6	1.8	2.0	6.6	5.5	82	1058
YBX3-315M-8	75	100	735	93.1	93.1	91.2	0.81	151	144	138	974.5	1.8	2.0	6.2	5.8	82	1265
YBX3-315L1-8	90	125	735	93.4	93.4	91.5	0.82	179	170	163	1169	1.8	2.0	6.4	6.8	82	1290
YBX3-315L2-8	110	150	735	93.7	93.7	91.8	0.82	218	207	199	1429	1.8	2.0	6.4	10.6	82	1495
YBX3-355S-8	132	180	740	94.0	94.0	92.1	0.82	260	247	238	1704	1.8	2.0	6.4	11.6	82	1885
YBX3-355M-8	160	220	740	94.3	94.3	92.4	0.82	314	299	288	2065	1.8	2.0	6.4	13.3	90	2095
YBX3-355L2-8	200	270	740	94.6	94.6	92.7	0.83	387	368	354	2581	1.8	2.0	6.4	13.6	90	2535

SPEED 600RPM 10-POLE 50HZ

Type	Output		Speed r/min	Rated current A			Efficiency η % 100%	Power factor $\cos\Phi$ 100%	Rated Torque Nm	$\frac{T_s}{T_n}$	$\frac{T_{max}}{T_n}$	$\frac{I_s}{I_n}$	Moment (J) kgm ²	Noise LwdB(A)	Weight Kg
	kW	Hp		380V	400V	415V									
YBX3-315S-10	45	60	590	99.6	94.6	91.2	91.5	0.75	728.4	1.5	2.0	6.2	5.23	82	960
YBX3-315M-10	55	75	590	121	115	111	92.0	0.75	890.3	1.5	2.0	6.2	6.05	82	1110
YBX3-315L1-10	75	100	590	162	154	148	92.5	0.76	1214.0	1.5	2.0	6.2	6.98	82	1290
YBX3-315L2-10	90	125	590	191	181	175	93.0	0.77	1456.8	1.5	2.0	6.2	7.21	82	1360
YBX3-315M1-10	110	150	590	230	218	211	93.2	0.78	1780.5	1.3	2.0	6.0	13.8	90	1500
YBX3-355M2-10	132	180	590	275	261	252	93.5	0.78	2136.6	1.3	2.0	6.0	15	90	1600
YBX3-355L-10	160	220	590	333	317	305	93.5	0.78	2589.8	1.3	2.0	6.0	16.64	90	1700

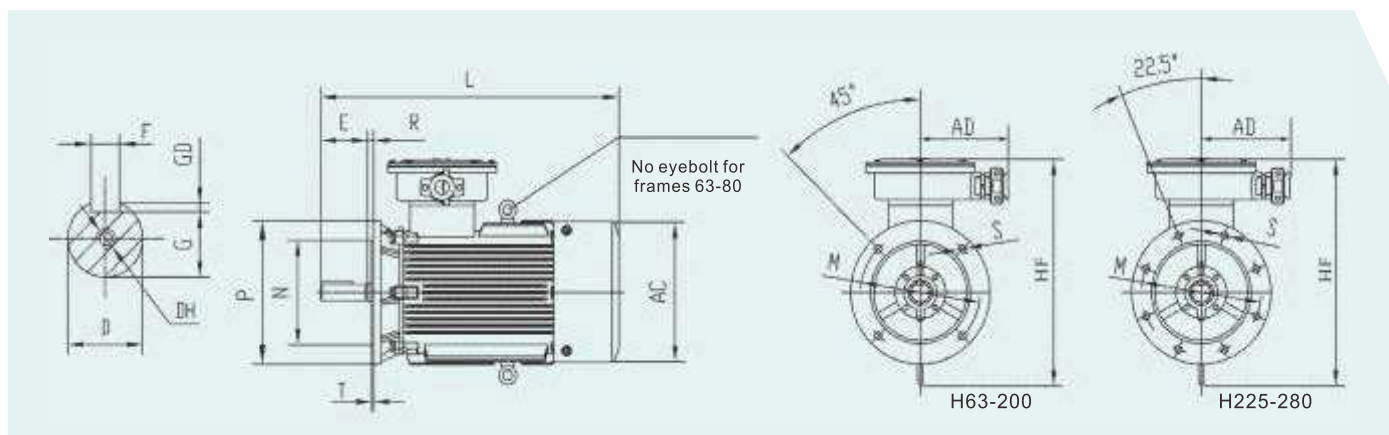


IM B3 H63-355



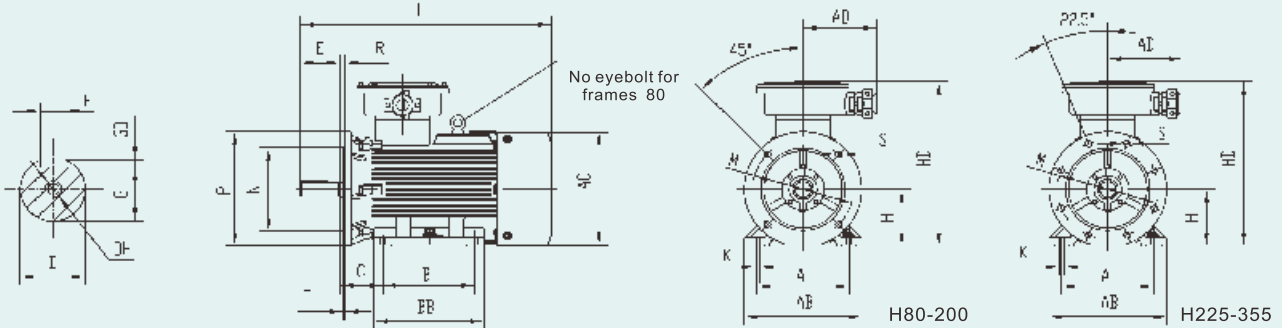
Type	Poles	Mounting Dimensions										Overall Dimensions						
		A	B	C	D	E	F	G	GD	H	K	AB	AC	AD	BB	HD	L	DH
63M	2, 4	100	80	40	11	23	4	8.5	2.5	63	7	130	150	165	110	230	270	M4×10
71M	2, 4, 6	112	90	45	14	30	5	11	3	71	7	140	155	165	114	250	300	M5×12
80M	2, 4, 6, 8	125	100	50	19	40	6	15.5	3.5	80	10	165	165	180	130	320	330	M6×16
90S	2, 4, 6, 8	140	100	56	24	50	8	20	4	90	12	180	180	180	135	350	370	M8×19
90L	2, 4, 6, 8	140	125	56	24	50	8	20	4	90	12	180	180	180	160	350	395	M8×19
100L	2, 4, 6, 8	160	140	63	28	60	8	24	4	100	12	200	205	180	180	400	450	M10×22
112M	2, 4, 6, 8	190	140	70	28	60	8	24	4	112	12	245	230	200	180	420	500	M10×22
132S	2, 4, 6, 8	216	140	89	38	80	10	33	5	132	15	280	270	200	190	450	550	M12×28
132M	2, 4, 6, 8	216	178	89	38	80	10	33	5	132	15	280	270	200	230	450	600	M12×28
160M	2, 4, 6, 8	254	210	108	42	110	12	37	5	160	15	330	325	220	260	520	720	M16×36
160L	2, 4, 6, 8	254	254	108	42	110	12	37	5	160	15	330	325	220	310	520	750	M16×36
180M	2, 4, 6, 8	279	241	121	48	110	14	42.5	5.5	180	19	355	360	220	241	550	770	M16×36
180L	2, 4, 6, 8	279	279	121	48	110	14	42.5	5.5	180	19	355	360	220	279	550	790	M16×36
200L	2, 4, 6, 8	318	305	133	55	110	16	49	6	200	19	390	400	250	370	645	840	M20×42
225S	4, 8	356	286	149	60	140	18	53	7	225	19	435	400	250	355	690	890	M20×42
225M	2	356	311	149	55	110	16	49	6	225	19	435	400	250	380	690	890	M20×42
	4, 6, 8	356	311	149	60	140	18	53	7	225	19	435	400	250	380	690	920	M20×42
250M	2	406	349	168	60	140	18	53	7	250	24	490	500	300	420	730	965	M20×42
	4, 6, 8	406	349	168	65	140	18	58	7	250	24	490	500	300	420	730	965	M20×42
280S	2	457	368	190	65	140	18	58	7	280	24	545	565	300	445	810	1010	M20×42
	4, 6, 8	457	368	190	75	140	20	67.5	7.5	280	24	545	565	300	445	810	1010	M20×42
280M	2	457	419	190	65	140	18	58	7	280	24	545	565	300	500	810	1080	M20×42
	4, 6, 8	457	419	190	75	140	20	67.5	7.5	280	24	545	565	300	500	810	1080	M20×42
315S	2	508	406	216	65	140	18	58	7	315	28	640	630	360	550	1020	1185	M20×42
	4, 6, 8, 10	508	406	216	80	170	22	71	9	315	28	640	630	360	550	1020	1260	M20×42
315M	2	508	457	216	65	140	18	58	7	315	28	640	630	360	680	1020	1305	M20×42
	4, 6, 8, 10	508	457	216	80	170	22	71	9	315	28	640	630	360	680	1020	1380	M20×42
315L	2	508	508	216	65	140	18	58	7	315	28	640	630	360	680	1020	1305	M20×42
	4, 6, 8, 10	508	508	216	80	170	22	71	9	315	28	640	630	360	680	1020	1380	M20×42
355S	2	610	500	254	75	140	20	67.5	7.5	355	28	740	750	360	640	1080	1415	M20×42
	4, 6, 8, 10	610	500	254	95	170	25	86	9	355	28	740	750	360	640	1080	1485	M24×50
355M	2	610	560	254	75	140	20	67.5	7.5	355	28	740	750	360	700	1080	1495	M20×42
	4, 6, 8, 10	610	560	254	95	170	25	86	9	355	28	740	750	360	700	1080	1565	M24×50
355L	2	610	630	254	75	140	20	67.5	7.5	355	28	740	750	360	770	1080	1645	M20×42
	4, 6, 8, 10	610	630	254	95	170	25	86	9	355	28	740	750	360	770	1080	1675	M24×50

IM B5 H63-280



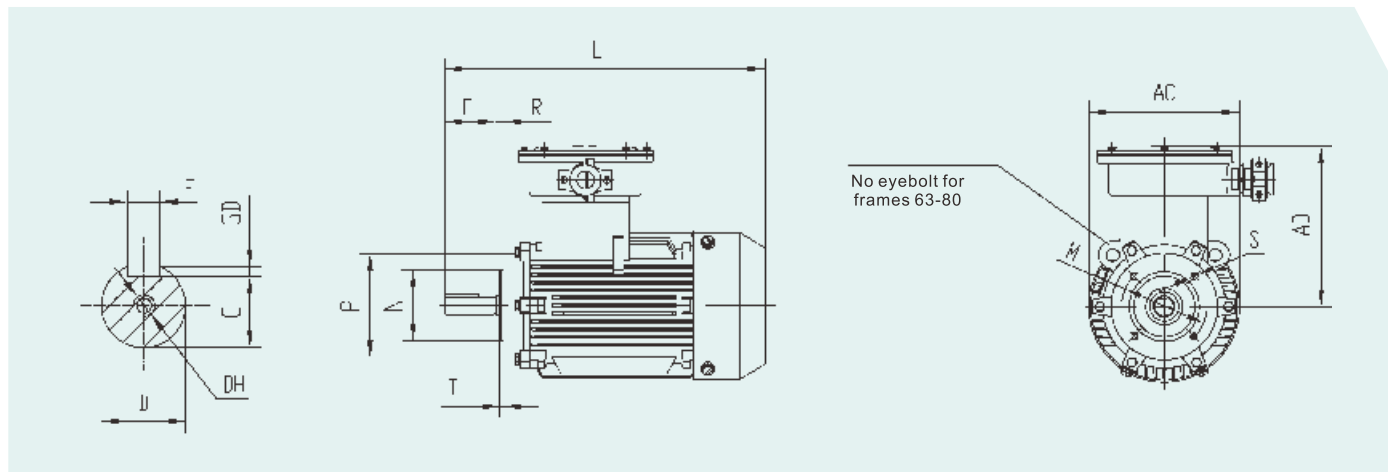
Type	Poles	Mounting Dimensions											Flange holes	Overall Dimensions				
		D	E	F	G	GD	M	N	P	R	S	T		AC	AD	L	DH	HF
63M	2, 4	11	23	4	8.5	2.5	115	95	140	0	10	3	4	130	170	270	M4×10	240
71M	2, 4, 6	14	30	5	11	3	130	110	160	0	10	3	4	145	170	300	M5×12	250
80M	2, 4, 6, 8	19	40	6	15.5	3.5	165	130	200	0	12	3.5	4	165	180	330	M6×16	340
90S	2, 4, 6, 8	24	50	8	20	4	165	130	200	0	12	3.5	4	180	180	370	M8×19	340
90L	2, 4, 6, 8	24	50	8	20	4	165	130	200	0	12	3.5	4	180	180	395	M8×19	340
100L	2, 4, 6, 8	28	60	8	24	4	215	180	250	0	15	4	4	205	180	450	M10×22	380
112M	2, 4, 6, 8	28	60	8	24	4	215	180	250	0	15	4	4	230	200	500	M10×22	420
132S	2, 4, 6, 8	38	80	10	33	5	265	230	300	0	15	4	4	270	200	550	M12×28	480
132M	2, 4, 6, 8	38	80	10	33	5	265	230	300	0	15	4	4	270	200	600	M12×28	480
160M	2, 4, 6, 8	42	110	12	37	5	300	250	350	0	19	5	4	325	220	720	M16×36	540
160L	2, 4, 6, 8	42	110	12	37	5	300	250	350	0	19	5	4	325	220	750	M16×36	540
180M	2, 4, 6, 8	48	110	14	42.5	5.5	300	250	350	0	19	5	4	360	220	770	M16×36	570
180L	2, 4, 6, 8	48	110	14	42.5	5.5	300	250	350	0	19	5	4	360	220	790	M16×36	570
200L	2, 4, 6, 8	55	110	16	49	6	350	300	400	0	19	5	4	400	250	840	M20×42	610
225S	4, 8	60	140	18	53	7	400	350	450	0	19	5	8	400	250	890	M20×42	720
225M	2	55	110	16	49	6	400	350	450	0	19	5	8	400	250	890	M20×42	720
	4, 6, 8	60	140	18	53	7	400	350	450	0	19	5	8	400	250	920	M20×42	720
250M	2	60	140	18	53	7	500	450	550	0	19	5	8	500	300	965	M20×42	740
	4, 6, 8	65	140	18	58	7	500	450	550	0	19	5	8	500	300	965	M20×42	740
280S	2	65	140	18	58	7	500	450	550	0	19	5	8	565	300	1010	M20×42	900
	4, 6, 8	75	140	20	67.5	7.5	500	450	550	0	19	5	8	565	300	1010	M20×42	900
280M	2	65	140	18	58	7	500	450	550	0	19	5	8	565	300	1080	M20×42	900
	4, 6, 8	75	140	20	67.5	7.5	500	450	550	0	19	5	8	565	300	1080	M20×42	900

IM B35 H80-355



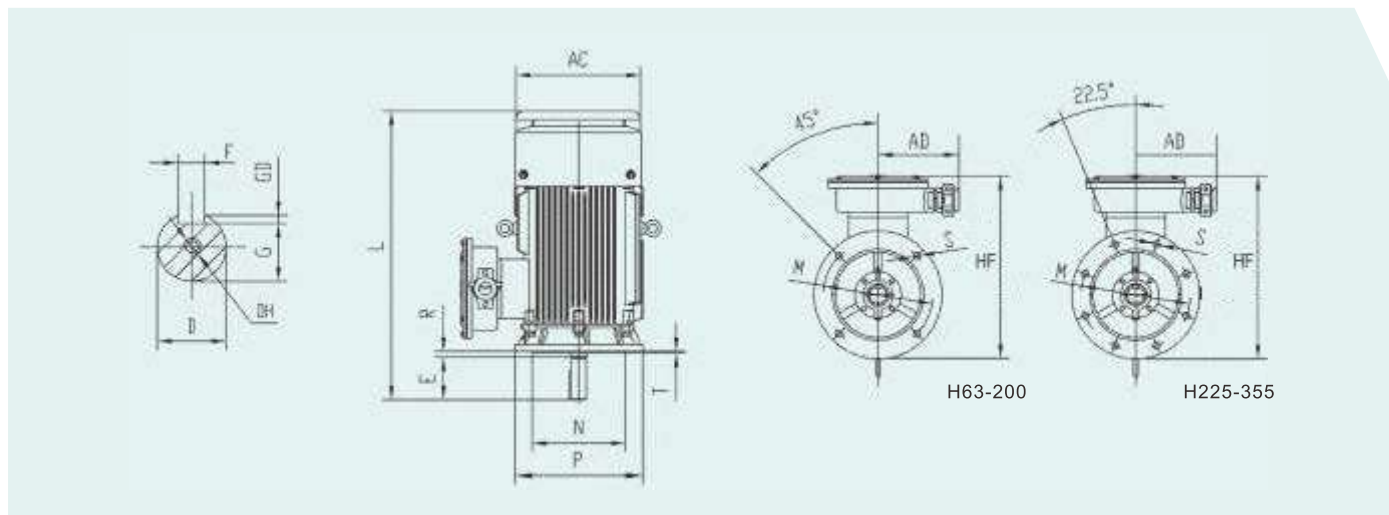
Type	Poles	Mounting Dimensions																Flange holes	Overall Dimensions							
		A	B	C	D	E	F	G	GD	H	K	M	N	P	R	S	T		AB	AC	AD	BB	HD	L	DH	
80M	2, 4, 6, 8	125	100	50	19	40	6	15.5	3.5	80	10	165	130	200	0	12	3.5	4	165	165	180	130	320	330	M6×16	
90S	2, 4, 6, 8	140	100	56	24	50	8	20	4	90	12	165	130	200	0	12	3.5	4	180	180	180	135	350	370	M8×19	
90L	2, 4, 6, 8	140	125	56	24	50	8	20	4	90	12	165	130	200	0	12	3.5	4	180	180	180	160	350	395	M8×19	
100L	2, 4, 6, 8	160	140	63	28	60	8	24	4	100	12	215	180	250	0	15	4	4	200	205	180	180	360	450	M10×22	
112M	2, 4, 6, 8	190	140	70	28	60	8	24	4	112	12	215	180	250	0	15	4	4	245	230	200	180	380	500	M10×22	
132S	2, 4, 6, 8	216	140	89	38	80	10	33	5	132	15	265	230	300	0	15	4	4	280	270	200	190	430	550	M12×28	
132M	2, 4, 6, 8	216	178	89	38	80	10	33	5	132	15	265	230	300	0	15	4	4	280	270	200	230	430	600	M12×28	
160M	2, 4, 6, 8	254	210	108	42	110	12	37	5	160	15	300	250	350	0	19	5	4	330	325	220	260	500	720	M16×36	
160L	2, 4, 6, 8	254	254	108	42	110	12	37	5	160	15	300	250	350	0	19	5	4	330	325	220	310	500	750	M16×36	
180M	2, 4, 6, 8	279	241	121	48	110	14	42.5	5.5	180	19	300	250	350	0	19	5	4	355	360	220	241	550	770	M16×36	
180L	2, 4, 6, 8	279	279	121	48	110	14	42.5	5.5	180	19	300	250	350	0	19	5	4	355	360	220	279	550	790	M16×36	
200L	2, 4, 6, 8	318	305	133	55	110	16	49	6	200	19	350	300	400	0	19	5	4	390	400	250	370	645	840	M20×42	
225S	4, 8	356	286	149	60	140	18	53	7	225	19	400	350	450	0	19	5	8	435	400	250	355	690	890	M20×42	
225M	2	356	311	149	55	110	16	49	6	225	19	400	350	450	0	19	5	8	435	400	250	380	690	890	M20×42	
	4, 6, 8	356	311	149	60	140	18	53	7	225	19	400	350	450	0	19	5	8	435	400	250	380	690	920	M20×42	
250M	2	406	349	168	60	140	18	53	7	250	24	500	450	550	0	19	5	8	490	500	300	420	730	965	M20×42	
	4, 6, 8	406	349	168	65	140	18	58	7	250	24	500	450	550	0	19	5	8	490	500	300	420	730	965	M20×42	
280S	2	457	368	190	65	140	18	58	7	280	24	500	450	550	0	19	5	8	545	565	300	445	810	1010	M20×42	
	4, 6, 8	457	368	190	75	140	20	67.5	7.5	280	24	500	450	550	0	19	5	8	545	565	300	445	810	1010	M20×42	
280M	2	457	419	190	65	140	18	58	7	280	24	500	450	550	0	19	5	8	545	565	300	500	810	1080	M20×42	
	4, 6, 8	457	419	190	75	140	20	67.5	7.5	280	24	500	450	550	0	19	5	8	545	565	300	500	810	1080	M20×42	
315S	2	508	406	216	65	140	18	58	7	315	28	600	550	660	0	24	6	8	640	630	360	550	1020	1185	M20×42	
	4, 6, 8, 10	508	406	216	80	170	22	71	9	315	28	600	550	660	0	24	6	8	640	630	360	550	1020	1260	M20×42	
315M	2	508	457	216	65	140	18	58	7	315	28	600	550	660	0	24	6	8	640	630	360	680	1020	1305	M20×42	
	4, 6, 8, 10	508	457	216	80	170	22	71	9	315	28	600	550	660	0	24	6	8	640	630	360	680	1020	1380	M20×42	
315L	2	508	508	216	65	140	18	58	7	315	28	600	550	660	0	24	6	8	640	630	360	680	1020	1305	M20×42	
	4, 6, 8, 10	508	508	216	80	170	22	71	9	315	28	600	550	660	0	24	6	8	640	630	360	680	1020	1380	M20×42	
355S	2	610	500	254	75	140	20	67.5	7.5	355	28	740	680	800	0	24	6	8	740	750	360	640	1080	1415	M20×42	
	4, 6, 8, 10	610	500	254	95	170	25	86	9	355	28	740	680	800	0	24	6	8	740	750	360	640	1080	1485	M24×50	
355M	2	610	560	254	75	140	20	67.5	7.5	355	28	740	680	800	0	24	6	8	740	750	360	700	1080	1495	M20×42	
	4, 6, 8, 10	610	560	254	95	170	25	86	9	355	28	740	680	800	0	24	6	8	740	750	360	700	1080	1565	M24×50	
355L	2	610	630	254	75	140	20	67.5	7.5	355	28	740	680	800	0	24	6	8	740	750	360	770	1080	1645	M20×42	
	4, 6, 8, 10	610	630	254	95	170	25	86	9	355	28	740	680	800	0	24	6	8	740	750	360	770	1080	1675	M24×50	

IM B14A H63-112



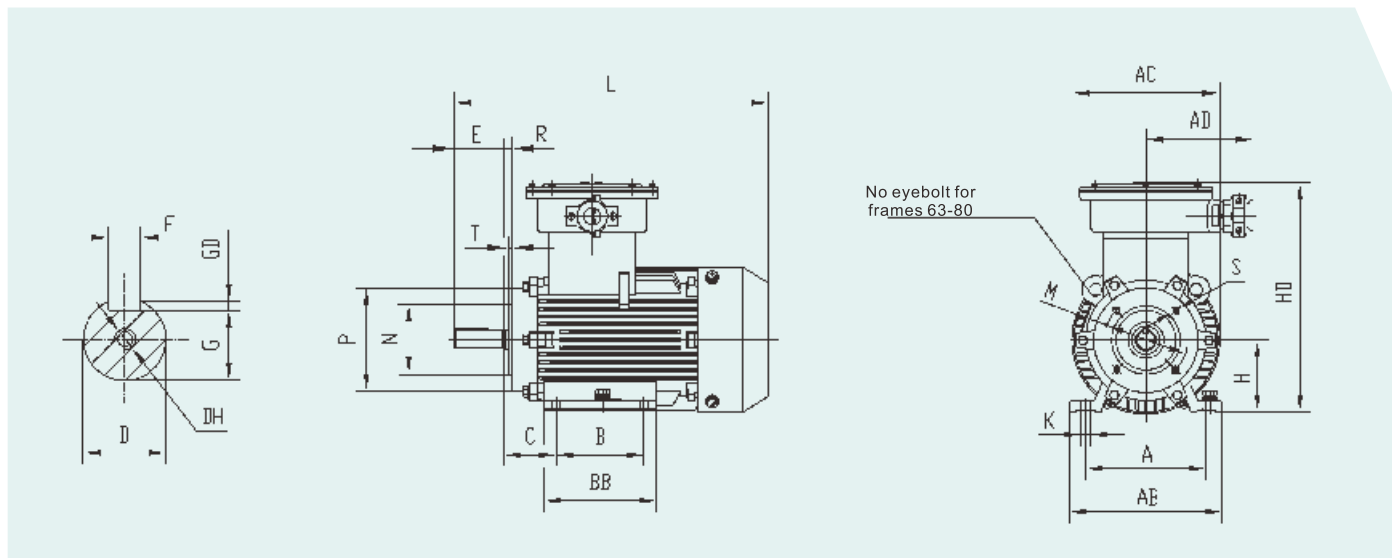
Type	Poles	Mounting Dimensions											Flange holes	Overall Dimensions			
		D	E	F	G	GD	M	N	P	R	S	T		AC	AD	L	DH
63M	2、4	11	23	4	8.5	2.5	75	60	90	0	M5	2.5	4	150	170	270	M4×12
71M	2、4、6	14	30	5	11	3	85	70	105	0	M6	2.5	4	155	170	300	M5×12
80M	2、4、6、8	19	40	6	15.5	3.5	100	80	120	0	M6	3	4	165	240	330	M6×16
90S	2、4、6、8	24	50	8	20	4	115	95	140	0	M8	3	4	180	260	360	M8×19
90L	2、4、6、8	24	50	8	20	4	115	95	140	0	M8	3	4	180	260	385	M8×19
100L	2、4、6、8	28	60	8	24	4	130	110	160	0	M8	3.5	4	205	300	440	M10×22
112M	2、4、6、8	28	60	8	24	4	130	110	160	0	M8	3.5	4	230	310	460	M10×22

IM VI H63-355



Type	Poles	Mounting Dimensions												Flange holes	Overall Dimensions				
		D	E	F	G	GD	M	N	P	R	S	T	AC		AD	L	DH	HF	
63M	2, 4	11	23	4	8.5	2.5	115	95	140	0	10	3	4	130	170	310	M4×10	240	
71M	2, 4, 6	14	30	5	11	3	130	110	160	0	10	3	4	145	170	340	M5×12	250	
80M	2, 4, 6, 8	19	40	6	15.5	3.5	165	130	200	0	12	3.5	4	165	180	375	M6×16	340	
90S	2, 4, 6, 8	24	50	8	20	4	165	130	200	0	12	3.5	4	180	180	405	M8×19	340	
90L	2, 4, 6, 8	24	50	8	20	4	165	130	200	0	12	3.5	4	180	180	430	M8×19	340	
100L	2, 4, 6, 8	28	60	8	24	4	215	180	250	0	15	4	4	205	180	485	M10×22	380	
112M	2, 4, 6, 8	28	60	8	24	4	215	180	250	0	15	4	4	230	200	520	M10×22	420	
132S	2, 4, 6, 8	38	80	10	33	5	265	230	300	0	15	4	4	270	200	590	M12×28	480	
132M	2, 4, 6, 8	38	80	10	33	5	265	230	300	0	15	4	4	270	200	630	M12×28	480	
160M	2, 4, 6, 8	42	110	12	37	5	300	250	350	0	19	5	4	325	220	730	M16×36	540	
160L	2, 4, 6, 8	42	110	12	37	5	300	250	350	0	19	5	4	325	220	770	M16×36	540	
180M	2, 4, 6, 8	48	110	14	42.5	5.5	300	250	350	0	19	5	4	360	220	800	M16×36	570	
180L	2, 4, 6, 8	48	110	14	42.5	5.5	300	250	350	0	19	5	4	360	220	820	M16×36	570	
200L	2, 4, 6, 8	55	110	16	49	6	350	300	400	0	19	5	4	400	250	875	M20×42	610	
225S	4, 8	60	140	18	53	7	400	350	450	0	19	5	8	450	250	935	M20×42	720	
225M	2	55	110	16	49	6	400	350	450	0	19	5	8	450	250	930	M20×42	720	
	4, 6, 8	60	140	18	53	7	400	350	450	0	19	5	8	450	250	960	M20×42	720	
250M	2	60	140	18	53	7	500	450	550	0	19	5	8	500	300	1035	M20×42	740	
	4, 6, 8	65	140	18	58	7	500	450	550	0	19	5	8	500	300	1035	M20×42	740	
280S	2	65	140	18	58	7	500	450	550	0	19	5	8	565	300	1100	M20×42	900	
	4, 6, 8	75	140	20	67.5	7.5	500	450	550	0	19	5	8	565	300	1100	M20×42	900	
280M	2	65	140	18	58	7	500	450	550	0	19	5	8	565	300	1150	M20×42	900	
	4, 6, 8	75	140	20	67.5	7.5	500	450	550	0	19	5	8	565	300	1150	M20×42	900	
315S	2	65	140	18	58	7	600	550	660	0	24	6	8	630	360	1370	M20×42	1090	
	4, 6, 8, 10	80	170	22	71	9	600	550	660	0	24	6	8	630	360	1420	M20×42	1090	
315M	2	65	140	18	58	7	600	550	660	0	24	6	8	630	360	1450	M20×42	1090	
	4, 6, 8, 10	80	170	22	71	9	600	550	660	0	24	6	8	630	360	1510	M20×42	1090	
315L	2	65	140	18	58	7	600	550	660	0	24	6	8	630	360	1540	M20×42	1090	
	4, 6, 8, 10	80	170	22	71	9	600	550	660	0	24	6	8	630	360	1540	M20×42	1090	
355S	2	75	140	20	67.5	7.5	740	680	800	0	24	6	8	750	360	1600	M20×42	1090	
	4, 6, 8, 10	95	170	25	86	9	740	680	800	0	24	6	8	750	360	1600	M24×50	1090	
355M	2	75	140	20	67.5	7.5	740	680	800	0	24	6	8	750	360	1600	M20×42	1090	
	4, 6, 8, 10	95	170	25	86	9	740	680	800	0	24	6	8	750	360	1600	M24×50	1090	
355L	2	75	140	20	67.5	7.5	740	680	800	0	24	6	8	750	360	1780	M20×42	1090	
	4, 6, 8, 10	95	170	25	86	9	740	680	800	0	24	6	8	750	360	1780	M24×50	1090	

IM B34A H63-112



Type	Poles	Mounting Dimensions																Flange holes	Overall Dimensions						
		A	B	C	D	E	F	G	GD	H	K	M	N	P	R	S	T		AB	AC	AD	BB	HD	L	DH
63M	2.4	100	80	40	11	23	4	8.5	2.5	63	7	75	60	90	0	M5	2.5	4	130	150	165	110	230	270	M4×12
71M	2.4.6	112	90	45	14	30	5	11	3	71	7	85	70	105	0	M6	2.5	4	140	155	165	114	250	300	M5×12
80M	2.4.6.8	125	100	50	19	40	6	15.5	3.5	80	10	100	80	120	0	M6	3	4	165	165	180	130	320	330	M6×16
90S	2.4.6.8	140	100	56	24	50	8	20	4	90	10	115	95	140	0	M8	3	4	180	180	180	135	350	360	M8×19
90L	2.4.6.8	140	125	56	24	50	8	20	4	90	10	115	95	140	0	M8	3	4	180	180	180	160	350	385	M8×19
100L	2.4.6.8	160	140	63	28	60	8	24	4	100	12	130	110	160	0	M8	3.5	4	200	205	180	180	400	440	M10×22
112M	2.4.6.8	190	140	70	28	60	8	24	4	112	12	130	110	160	0	M8	3.5	4	245	230	200	180	420	460	M10×22

SPECIFICATIONS OF IGNITION GROUP FOR FLAMEPROOF MOTORS

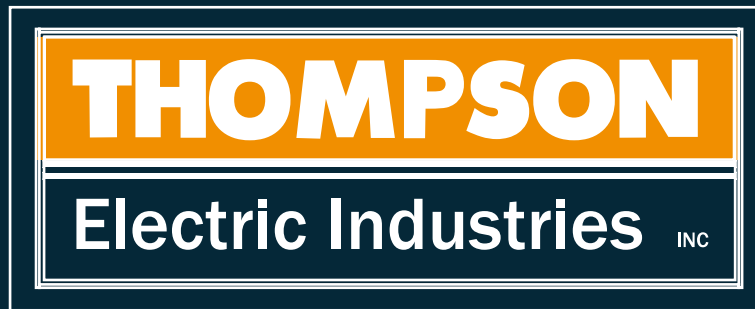
GB3836.1、IEC60079-0、EN50014	
Ignition group	Ignition temperature (°C)
T1	450
T2	300
T3	200
T4	135
T5	100
T6	85

Chines & International Specifications of Explosion

Location	Code of Standard	
	GB3836.1-IEC60079-1	CENELEC En50018
For Mines	flameproof class	
	d I	d I
	d II A	d II A
	d II A	d II A
	d II B	d II B
	d II C	d II C

To show the group of enclosures suitable for a particular flammable gas or vapour and its classification

Group of enclosure	Temp.class (°C)				
	T1	T2	T3	T4	T5
Flammable gas or vapour					
I	Methane Ammonia Acetic acid	Butyl alcohol Acetic anhydride	Cyclohexane		
II A	Ethane Propane Acetone Styrene Benzene Chlorobenzene Methanol Toluene Carbonmonoxide	Butane Ethanol Propene n-Butyl acetate Amyl acetate Chloroethylene Ethyl acetate	Pentane Hexane Heptane Octane Decane Hydrosulxide Gasoline	Ether Acetaldehyde	
II B	Hydrogen cyanide Coal gas	Ethylene oxide Butadiene 1,4-dioxan Ethylene	Isopentylens Dimethylether Butenal Ethaneethiol	Ethylene methyl ether Ethyl oxide Butyl oxide Tetrafluoroethylene	
II C	Water gas Hydrogen	Acetylene			



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