

Equipment category		
Gas symbol G	Dust symbol D	Zone Criteria Presence of Gas or Dust
Category 1 Zone 0	Category 1 Zone 20	Continuously or very long period
Category 2 Zone 1	Category 2 Zone 21	Present in normal operation
Category 3 Zone 2	Category 3 Zone 22	Unlikely but if present, then only for a short time

Note: Category 1, Zone 0 and Zone 20 are not applicable to electric motors

Dust are marked differently, eg:
CE 1180 Ex II 2 D T125°C
 T125°C = certified external surface temperature

- IEC/Metric Aluminum
- IEC/Metric Cast Iron
- ATEX EEXD IIB Explosion Proof
- ATEX EEXDE IIC Explosion Proof
- ATEX EEXNA Non-Sparking
- IEC/Metric Brake Motor

IEC/Metric
Aluminium

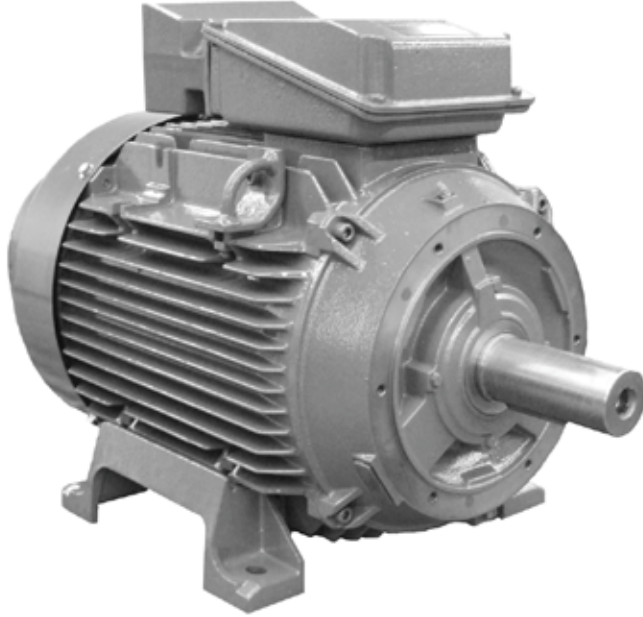
IEC/Metric
Cast Iron

ATEX EEXD IIB
Explosion Proof

ATEX EEXDE IIC
Explosion Proof

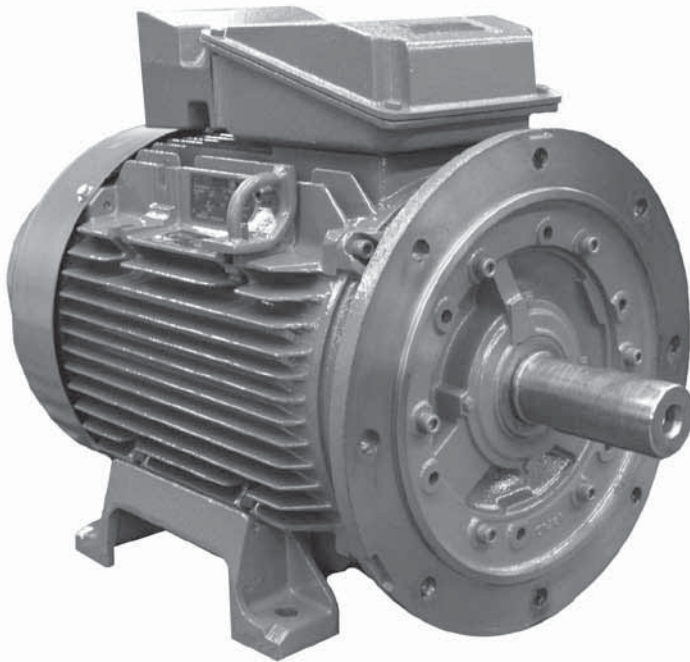
ATEX EEXNA
Non-Sparking

IEC/Metric
Brake Motor



ATEX/IECex EExnA Non-Sparking Motors. Features Include:

- Motors comply with CENELEC/ EURONORM standards EN60079 certified by BASEEFA / ATEX / IECex
- Zone 2, Group II T3 non sparking
- TEFC enclosure
- Cast iron construction
- Service factor 1.0 50Hz
- 380-415V/660-720V/3PH/50HZ
- 440-480V/3PH/60HZ
- Class F insulation
- Removable/ repositionable feet for easy conversion to terminal box on top, left, right, or round body configuration
- 3 year warranty



Notes:

BS - British Standard Dimensions
X - Motors Are For Export Only
EX - IECEx Rated
RF - Removable Feet

**ATEX/IECex EEXNA Zone 2 Non-Sparking IEC 90S-315M - TEFC
B3 (Foot Mount) - Cast Iron**



HP	Kw	RPM	Frame	Voltage	P/N	List	FL Eff.	L Dim. (mm)	S.F. 50 Hz	FL Amps	LBS	Notes
1	0.75	1500	80M	380-415 V	AN4M001-E	\$668	79.6	278	1.0	1.80	38	BS, X, EX, RF
		1000	90S	380-415 V	AN6M001-E	\$794	75.9	364	1.0	2.10	56	BS, X, EX, RF
1.5	1.1	3000	80M	380-415 V	AN2M1.5-E	\$679	79.6	278	1.0	2.20	38	BS, X, EX, RF
		1500	90S	380-415 V	AN4M1.5-E	\$780	81.4	364	1.0	2.40	56	BS, X, EX, RF
		1000	90L	380-415 V	AN6M1.5-E	\$931	78.1	364	1.0	2.90	67	BS, X, EX, RF
2	1.5	3000	90S	380-415 V	AN2M002-E	\$819	81.3	364	1.0	2.90	56	BS, X, EX, RF
		1500	90L	380-415 V	AN4M002-E	\$913	82.8	364	1.0	3.60	67	BS, X, EX, RF
		1000	100L	380-415 V	AN6M002-E	\$1,212	79.8	409	1.0	3.70	70	BS, X, EX, RF
3	2.2	3000	90L	380-415 V	AN2M003-E	\$938	83.2	364	1.0	4.40	67	BS, X, EX, RF
		1500	100L	380-415 V	AN4M003-E	\$1,121	84.3	409	1.0	4.90	70	BS, X, EX, RF
		1000	112M	380-415 V	AN6M003-E	\$1,495	81.8	442	1.0	5.30	123	BS, X, EX, RF
4	3	3000	100L	380-415 V	AN2M004-E	\$1,192	84.6	409	1.0	5.70	70	BS, X, EX, RF
		1500	100L	380-415 V	AN4M004-E	\$1,249	85.5	409	1.0	6.60	70	BS, X, EX, RF
		1000	132S	380-415 V	AN6M004-E	\$1,922	83.3	484	1.0	6.70	173	BS, X, EX, RF
5.5	4	3000	112M	380-415 V	AN2M5.5-E	\$1,409	85.8	442	1.0	7.00	123	BS, X, EX, RF
		1500	112M	380-415 V	AN4M5.5-E	\$1,495	86.6	442	1.0	8.40	123	BS, X, EX, RF
		1000	132M	380-415 V	AN6M5.5-E	\$2,136	84.6	484	1.0	9.00	170	BS, X, EX, RF
7.5	5.5	3000	132S	380-415 V	AN2M7.5-E	\$1,828	87	484	1.0	9.80	173	BS, X, EX, RF
		1500	132S	380-415 V	AN4M7.5-E	\$2,024	87.7	484	1.0	10.70	173	BS, X, EX, RF
		1000	132M	380-415 V	AN6M7.5-E	\$2,386	86	484	1.0	11.90	170	BS, X, EX, RF
10	7.5	3000	132S	380-415 V	AN2M010-E	\$2,055	88.1	484	1.0	13.00	173	BS, X, EX, RF
		1500	132M	380-415 V	AN4M010-E	\$2,263	88.7	484	1.0	14.20	170	BS, X, EX, RF
		1000	160M	380-415 V	AN6M010-E	\$3,340	87.2	604	1.0	16.00	293	BS, X, EX, RF
15	11	3000	160M	380-415 V	AN2M015-E	\$3,187	89.4	604	1.0	19.30	293	BS, X, EX, RF
		1500	160M	380-415 V	AN4M015-E	\$3,299	89.8	604	1.0	20.20	293	BS, X, EX, RF
		1000	160L	380-415 V	AN6M015-E	\$3,951	88.7	604	1.0	23.10	333	BS, X, EX, RF
20	15	3000	160M	380-415 V	AN2M020-E	\$3,305	90.3	604	1.0	25.60	293	BS, X, EX, RF
		1500	160L	380-415 V	AN4M020-E	\$3,448	90.6	604	1.0	27.00	333	BS, X, EX, RF
		1000	180L	380-415 V	AN6M020-E	\$5,000	89.7	787	1.0	29.40	408	BS, X, EX, RF
25	18.5	3000	160L	380-415 V	AN2M025-E	\$4,091	90.9	604	1.0	30.80	333	BS, X, EX, RF
		1500	180M	380-415 V	AN4M025-E	\$4,132	91.2	663	1.0	32.80	395	BS, X, EX, RF
		1000	200L	380-415 V	AN6M025-E	\$7,811	90.4	787	1.0	35.70	750	BS, X, EX, RF
30	22	3000	180M	380-415 V	AN2M030-E	\$4,789	91.3	663	1.0	35.70	395	BS, X, EX, RF
		1500	180L	380-415 V	AN4M030-E	\$4,817	91.6	663	1.0	39.50	408	BS, X, EX, RF
		1000	200L	380-415 V	AN6M030-E	\$9,668	90.9	787	1.0	41.40	750	BS, X, EX, RF
40	30	3000	200L	380-415 V	AN2M040-E	\$7,609	92	787	1.0	50.10	750	BS, X, EX, RF
		1500	200L	380-415 V	AN4M040-E	\$6,964	92.3	787	1.0	52.00	750	BS, X, EX, RF
		1000	225M	380-415 V	AN6M040-E	\$12,304	91.7	915	1.0	55.90	1050	BS, X, EX, RF
50	37	3000	200L	380-415 V	AN2M050-E	\$7,850	92.5	787	1.0	61.70	750	BS, X, EX, RF
		1500	225S	380-415 V	AN4M050-E	\$7,724	92.7	970	1.0	63.60	914	BS, X, EX, RF
		1000	250S	380-415 V	AN6M050-E	\$14,816	92.2	985	1.0	67.50	1384	BS, X, EX, RF
60	45	3000	225M	380-415 V	AN2M060-E	\$10,237	92.9	885	1.0	74.20	1050	BS, X, EX, RF
		1500	225M	380-415 V	AN4M060-E	\$10,118	93.1	915	1.0	77.10	1050	BS, X, EX, RF
		1000	250M	380-415 V	AN6M060-E	\$18,181	92.7	1021	1.0	81.00	1384	BS, X, EX, RF
75	55	3000	250S	380-415 V	AN2M075-E	\$13,118	93.2	985	1.0	90.60	1384	BS, X, EX, RF
		1500	250S	380-415 V	AN4M075-E	\$12,021	93.5	985	1.0	94.50	1384	BS, X, EX, RF
		1000	280S	380-415 V	AN6M075-E	\$21,188	93.1	1090	1.0	98.30	1512	BS, X, EX, RF
100	75	3000	250M	380-415 V	AN2M100-E	\$16,090	93.8	1030	1.0	122.40	1384	BS, X, EX, RF
		1500	250M	380-415 V	AN4M100-E	\$14,486	94	1021	1.0	126.30	1384	BS, X, EX, RF
		1000	280M	380-415 V	AN6M100-E	\$28,796	93.7	1145	1.0	132.00	1896	BS, X, EX, RF

Discount Category 18

IEC/Metric
Aluminum

IEC/Metric
Cast Iron

ATEX EEXD IIB
Explosion Proof

ATEX EEXDE IIC
Explosion Proof

ATEX EEXNA
Non-Sparking

IEC/Metric
Brake Motor

IEC/Metric
Aluminum

IEC/Metric
Cast Iron

ATEX EEXD IIB
Explosion Proof

ATEX EEXDE IIC
Explosion Proof

ATEX EEXNA
Non-Sparking

IEC/Metric
Brake Motor

HP	Kw	RPM	Frame	Voltage	P/N	List	FL Eff.	L Dim. (mm)	S.F. 50 Hz	FL Amps	LBS	Notes
125	90	3000	280S	380-415 V	AN2M125-E	\$19,180	94.1	1070	1.0	146.50	1512	BS, X, EX, RF
		1500	280S	380-415 V	AN4M125-E	\$16,821	94.2	1090	1.0	151.30	1512	BS, X, EX, RF
		1000	315S	380-415 V	AN6M125-E	\$33,634	94	1215	1.0	158.10	2354	BS, X, EX, RF
150	110	3000	280M	380-415 V	AN2M150-E	\$27,817	94.3	1115	1.0	177.30	1896	BS, X, EX, RF
		1500	280M	380-415 V	AN4M150-E	\$27,123	94.5	1145	1.0	184.10	1896	BS, X, EX, RF
		1000	315M	380-415 V	AN6M150-E	\$36,054	94.3	1245	1.0	189.90	2533	BS, X, EX, RF
200	150	3000	315M	380-415 V	AN2M200-E	\$35,467	94.7	1215	1.0	238.10	2533	BS, X, EX, RF
		1500	315M	380-415 V	AN4M200-E	\$35,683	94.9	1245	1.0	247.70	2533	BS, X, EX, RF

Discount Category 18

**ATEX/IECex EEXNA Zone 2 Non-Sparking IEC 90S-315M - TEFC
B14 (C-Face With B3 Removable Feet) - Cast Iron**



HP	Kw	RPM	Frame	Voltage	P/N	List	FL Eff.	L Dim. (mm)	S.F. 50 Hz	FL Amps	LBS	Notes
1	0.75	1500	80M	380-415 V	AN4M001-EC	\$1,026	79.6	278	1.0	1.80	45	BS, X, EX, RF
		1000	90S	380-415 V	AN6M001-EC	\$1,152	75.9	364	1.0	2.10	63	BS, X, EX, RF
1.5	1.1	3000	80M	380-415 V	AN2M1.5-EC	\$1,038	79.6	278	1.0	2.20	45	BS, X, EX, RF
		1500	90S	380-415 V	AN4M1.5-EC	\$1,138	81.4	364	1.0	2.40	63	BS, X, EX, RF
		1000	90L	380-415 V	AN6M1.5-EC	\$1,289	78.1	364	1.0	2.90	77	BS, X, EX, RF
2	1.5	3000	90S	380-415 V	AN2M002-EC	\$1,177	81.3	364	1.0	2.90	66	BS, X, EX, RF
		1500	90L	380-415 V	AN4M002-EC	\$1,271	82.8	364	1.0	3.60	78	BS, X, EX, RF
		1000	100L	380-415 V	AN6M002-EC	\$1,600	79.8	409	1.0	3.70	82	BS, X, EX, RF
3	2.2	3000	90L	380-415 V	AN2M003-EC	\$1,296	83.2	364	1.0	4.40	78	BS, X, EX, RF
		1500	100L	380-415 V	AN4M003-EC	\$1,508	84.3	409	1.0	4.90	82	BS, X, EX, RF
		1000	112M	380-415 V	AN6M003-EC	\$1,882	81.8	442	1.0	5.30	135	BS, X, EX, RF
4	3	3000	100L	380-415 V	AN2M004-EC	\$1,579	84.6	409	1.0	5.70	82	BS, X, EX, RF
		1500	100L	380-415 V	AN4M004-EC	\$1,637	85.5	409	1.0	6.60	82	BS, X, EX, RF
		1000	132S	380-415 V	AN6M004-EC	\$2,362	83.3	484	1.0	6.70	192	BS, X, EX, RF
5.5	4	3000	112M	380-415 V	AN2M5.5-EC	\$1,797	85.8	442	1.0	7.00	138	BS, X, EX, RF
		1500	112M	380-415 V	AN4M5.5-EC	\$1,882	86.6	442	1.0	8.40	138	BS, X, EX, RF
		1000	132M	380-415 V	AN6M5.5-EC	\$2,576	84.6	484	1.0	9.00	192	BS, X, EX, RF
7.5	5.5	3000	132S	380-415 V	AN2M7.5-EC	\$2,268	87	484	1.0	9.80	195	BS, X, EX, RF
		1500	132S	380-415 V	AN4M7.5-EC	\$2,464	87.7	484	1.0	10.70	195	BS, X, EX, RF
		1000	132M	380-415 V	AN6M7.5-EC	\$2,826	86	484	1.0	11.90	192	BS, X, EX, RF
10	7.5	3000	132S	380-415 V	AN2M010-EC	\$2,495	88.1	484	1.0	13.00	195	BS, X, EX, RF
		1500	132M	380-415 V	AN4M010-EC	\$2,703	88.7	484	1.0	14.20	192	BS, X, EX, RF
		1000	160M	380-415 V	AN6M010-EC	\$4,159	87.2	604	1.0	16.00	311	BS, X, EX, RF
15	11	3000	160M	380-415 V	AN2M015-EC	\$4,006	89.4	604	1.0	19.30	311	BS, X, EX, RF
		1500	160M	380-415 V	AN4M015-EC	\$4,118	89.8	604	1.0	20.20	311	BS, X, EX, RF
		1000	160L	380-415 V	AN6M015-EC	\$4,770	88.7	604	1.0	23.10	351	BS, X, EX, RF
20	15	3000	160M	380-415 V	AN2M020-EC	\$4,124	90.3	604	1.0	25.60	311	BS, X, EX, RF
		1500	160L	380-415 V	AN4M020-EC	\$4,267	90.6	604	1.0	27.00	351	BS, X, EX, RF
25	18.5	3000	160L	380-415 V	AN2M025-EC	\$4,910	90.9	604	1.0	30.80	351	BS, X, EX, RF

Discount Category 18

IEC/Metric
Aluminum

IEC/Metric
Cast Iron

ATEX EEXD IIB
Explosion Proof

ATEX EEXDE IIC
Explosion Proof

ATEX EEXNA
Non-Sparking

IEC/Metric
Brake Motor

**ATEX/IECex EEXNA Zone 2 Non-Sparking IEC 90S-315M - TEFC
B5 (D-Flange With B3 Removable Feet) - Cast Iron**

HP	Kw	RPM	Frame	Voltage	P/N	List	FL Eff.	L Dim. (mm)	S.F. 50 Hz	FL Amps	LBS	Notes
1	0.75	1500	80M	380-415 V	AN4M001-ED	\$1,026	79.6	278	1.0	1.80	45	BS, X, EX, RF
		1000	90S	380-415 V	AN6M001-ED	\$1,152	75.9	364	1.0	2.10	63	BS, X, EX, RF
1.5	1.1	3000	80M	380-415 V	AN2M1.5-ED	\$1,038	79.6	278	1.0	2.20	45	BS, X, EX, RF
		1500	90S	380-415 V	AN4M1.5-ED	\$1,138	81.4	364	1.0	2.40	63	BS, X, EX, RF
		1000	90L	380-415 V	AN6M1.5-ED	\$1,289	78.1	364	1.0	2.90	77	BS, X, EX, RF
2	1.5	3000	90S	380-415 V	AN2M002-ED	\$1,177	81.3	364	1.0	2.90	66	BS, X, EX, RF
		1500	90L	380-415 V	AN4M002-ED	\$1,271	82.8	364	1.0	3.60	78	BS, X, EX, RF
		1000	100L	380-415 V	AN6M002-ED	\$1,600	79.8	409	1.0	3.70	82	BS, X, EX, RF
3	2.2	3000	90L	380-415 V	AN2M003-ED	\$1,296	83.2	364	1.0	4.40	78	BS, X, EX, RF
		1500	100L	380-415 V	AN4M003-ED	\$1,508	84.3	409	1.0	4.90	82	BS, X, EX, RF
		1000	112M	380-415 V	AN6M003-ED	\$1,882	81.8	442	1.0	5.30	135	BS, X, EX, RF
4	3	3000	100L	380-415 V	AN2M004-ED	\$1,579	84.6	409	1.0	5.70	82	BS, X, EX, RF
		1500	100L	380-415 V	AN4M004-ED	\$1,637	85.5	409	1.0	6.60	82	BS, X, EX, RF
		1000	132S	380-415 V	AN6M004-ED	\$2,362	83.3	484	1.0	6.70	192	BS, X, EX, RF
5.5	4	3000	112M	380-415 V	AN2M5.5-ED	\$1,797	85.8	442	1.0	7.00	138	BS, X, EX, RF
		1500	112M	380-415 V	AN4M5.5-ED	\$1,882	86.6	442	1.0	8.40	138	BS, X, EX, RF
		1000	132M	380-415 V	AN6M5.5-ED	\$2,576	84.6	484	1.0	9.00	192	BS, X, EX, RF
7.5	5.5	3000	132S	380-415 V	AN2M7.5-ED	\$2,268	87	484	1.0	9.80	195	BS, X, EX, RF
		1500	132S	380-415 V	AN4M7.5-ED	\$2,464	87.7	484	1.0	10.70	195	BS, X, EX, RF
		1000	132M	380-415 V	AN6M7.5-ED	\$2,826	86	484	1.0	11.90	192	BS, X, EX, RF
10	7.5	3000	132S	380-415 V	AN2M010-ED	\$2,495	88.1	484	1.0	13.00	195	BS, X, EX, RF
		1500	132M	380-415 V	AN4M010-ED	\$2,703	88.7	484	1.0	14.20	192	BS, X, EX, RF
		1000	160M	380-415 V	AN6M010-ED	\$4,159	87.2	604	1.0	16.00	311	BS, X, EX, RF
15	11	3000	160M	380-415 V	AN2M015-ED	\$4,006	89.4	604	1.0	19.30	311	BS, X, EX, RF
		1500	160M	380-415 V	AN4M015-ED	\$4,118	89.8	604	1.0	20.20	311	BS, X, EX, RF
		1000	160L	380-415 V	AN6M015-ED	\$4,770	88.7	604	1.0	23.10	351	BS, X, EX, RF
20	15	3000	160M	380-415 V	AN2M020-ED	\$4,124	90.3	604	1.0	25.60	311	BS, X, EX, RF
		1500	160L	380-415 V	AN4M020-ED	\$4,267	90.6	604	1.0	27.00	351	BS, X, EX, RF
		1000	180L	380-415 V	AN6M020-ED	\$5,968	89.7	787	1.0	29.40	426	BS, X, EX, RF
25	18.5	3000	160L	380-415 V	AN2M025-ED	\$4,910	90.9	604	1.0	30.80	351	BS, X, EX, RF
		1500	180M	380-415 V	AN4M025-ED	\$5,100	91.2	663	1.0	32.80	416	BS, X, EX, RF
		1000	200L	380-415 V	AN6M025-ED	\$9,399	90.4	787	1.0	35.70	768	BS, X, EX, RF
30	22	3000	180M	380-415 V	AN2M030-ED	\$5,757	91.3	663	1.0	35.70	416	BS, X, EX, RF
		1500	180L	380-415 V	AN4M030-ED	\$5,785	91.6	663	1.0	39.50	437	BS, X, EX, RF
		1000	200L	380-415 V	AN6M030-ED	\$11,356	90.9	787	1.0	41.40	768	BS, X, EX, RF
40	30	3000	200L	380-415 V	AN2M040-ED	\$9,297	92	787	1.0	50.10	768	BS, X, EX, RF
		1500	200L	380-415 V	AN4M040-ED	\$8,652	92.3	787	1.0	52.00	768	BS, X, EX, RF
		1000	225M	380-415 V	AN6M040-ED	\$14,490	91.7	915	1.0	55.90	1072	BS, X, EX, RF
50	37	3000	200L	380-415 V	AN2M050-ED	\$9,538	92.5	787	1.0	61.70	768	BS, X, EX, RF
		1500	225S	380-415 V	AN4M050-ED	\$9,911	92.7	970	1.0	63.60	938	BS, X, EX, RF
		1000	250S	380-415 V	AN6M050-ED	\$17,052	92.2	985	1.0	67.50	1402	BS, X, EX, RF
60	45	3000	225M	380-415 V	AN2M060-ED	\$12,423	92.9	885	1.0	74.20	1072	BS, X, EX, RF
		1500	225M	380-415 V	AN4M060-ED	\$12,304	93.1	915	1.0	77.10	1072	BS, X, EX, RF
		1000	250M	380-415 V	AN6M060-ED	\$20,417	92.7	1021	1.0	81.00	1402	BS, X, EX, RF
75	55	3000	250S	380-415 V	AN2M075-ED	\$15,353	93.2	985	1.0	90.60	1402	BS, X, EX, RF
		1500	250S	380-415 V	AN4M075-ED	\$14,257	93.5	985	1.0	94.50	1402	BS, X, EX, RF
		1000	280S	380-415 V	AN6M075-ED	\$23,724	93.1	1090	1.0	98.30	1532	BS, X, EX, RF
100	75	3000	250M	380-415 V	AN2M100-ED	\$18,325	93.8	1030	1.0	122.40	1402	BS, X, EX, RF
		1500	250M	380-415 V	AN4M100-ED	\$16,722	94	1021	1.0	126.30	1402	BS, X, EX, RF
		1000	280M	380-415 V	AN6M100-ED	\$31,337	93.7	1145	1.0	132.00	1914	BS, X, EX, RF

Discount Category **18**

IEC/Metric
Aluminum

IEC/Metric
Cast Iron

ATEX EEXD IIB
Explosion Proof

ATEX EEXDE IIC
Explosion Proof

ATEX EEXNA
Non-Sparking

IEC/Metric
Brake Motor

**ATEX/IECex EEXNA Zone 2 Non-Sparking IEC 90S-315M - TEFC
B5 (D-Flange With B3 Removable Feet) - Cast Iron**



HP	Kw	RPM	Frame	Voltage	P/N	List	FL Eff.	L Dim. (mm)	S.F. 50 Hz	FL Amps	LBS	Notes
125	90	3000	280S	380-415 V	AN2M125-ED	\$21,721	94.1	1070	1.0	146.50	1532	BS, X, EX, RF
		1500	280S	380-415 V	AN4M125-ED	\$19,362	94.2	1090	1.0	151.30	1532	BS, X, EX, RF
		1000	315S	380-415 V	AN6M125-ED	\$36,498	94	1215	1.0	158.10	2380	BS, X, EX, RF
150	110	3000	280M	380-415 V	AN2M150-ED	\$30,358	94.3	1115	1.0	177.30	1914	BS, X, EX, RF
		1500	280M	380-415 V	AN4M150-ED	\$29,664	94.5	1145	1.0	184.10	1914	BS, X, EX, RF
		1000	315M	380-415 V	AN6M150-ED	\$38,918	94.3	1245	1.0	189.90	2560	BS, X, EX, RF
200	150	3000	315M	380-415 V	AN2M200-ED	\$38,331	94.7	1215	1.0	238.10	2560	BS, X, EX, RF
		1500	315M	380-415 V	AN4M200-ED	\$38,547	94.9	1245	1.0	247.70	2560	BS, X, EX, RF

Discount Category 18

IEC/Metric
Aluminum

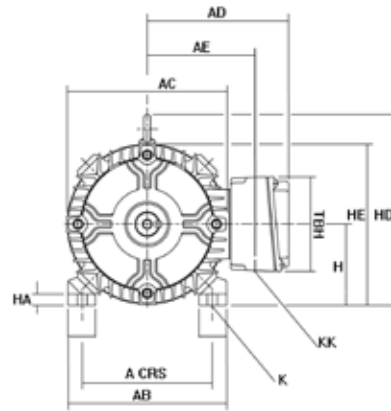
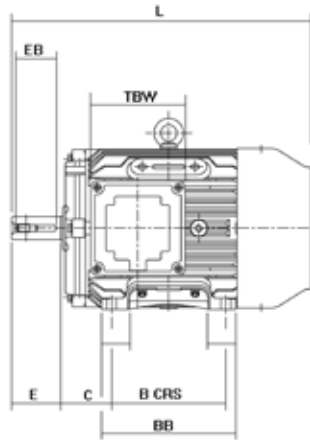
IEC/Metric
Cast Iron

ATEX EEXD IIB
Explosion Proof

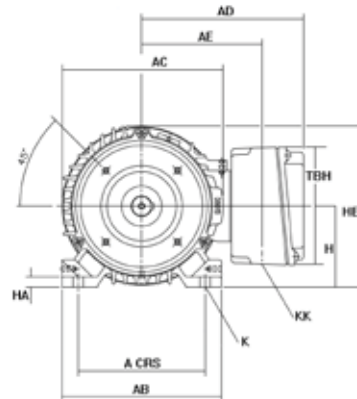
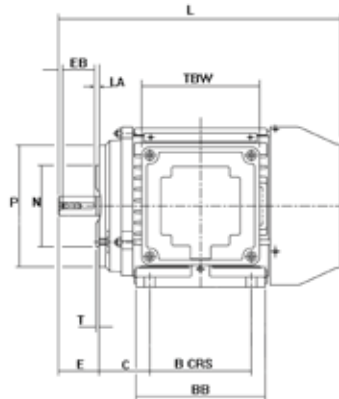
ATEX EEXDE IIC
Explosion Proof

ATEX EEXNA
Non-Sparking

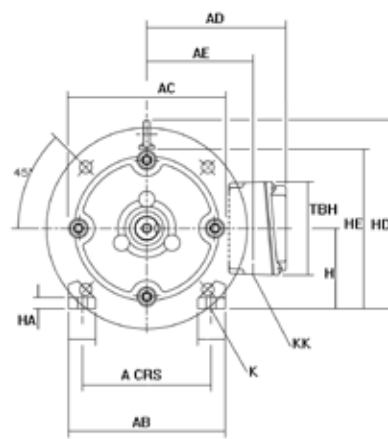
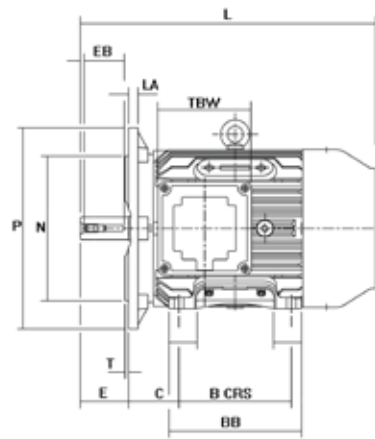
IEC/Metric
Brake Motor



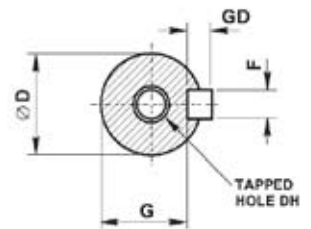
FOOT MOUNTED



C FACE MOUNTED



D FLANGE MOUNTED



IEC British Standard TEFC Dimensions

Frame Sizes 80 - 315

GENERAL														
FRAME	A	B	C	H	K	AA	AB	BB	HA	AC	HD	TBW	TBH	KK
80M	125	100	50	80	10	35	157	127	10	156	236	120	120	20
80S	125	100	50	80	10	35	157	127	10	156	236	120	120	20
90S	140	100	56	90	10	35	164	150	12	178	225	120	120	20
90L	140	125	56	90	10	35	164	150	12	178	225	120	120	20
100L	160	140	63	100	12	34	184	170	14	199	254	120	120	20
112M	190	140	70	112	12	40	218	170	16	215	279	135	135	25
132S	216	140	89	132	12	47	242	208	16	255	320	135	135	25
132M	216	178	89	132	12	47	242	208	16	255	320	135	135	25
160M	254	210	108	160	15	55	304	304	22	314	400	174	174	32
160L	254	254	108	160	15	55	304	304	22	314	400	174	174	32
180M	279	241	121	180	15	64	329	329	22	358	440	174	174	32
180L	279	279	121	180	15	64	329	329	22	358	440	174	174	32
200L	318	305	133	200	19	74	382	369	30	358	460	176	176	
225S	356	286	149	225	M16	70	426	349	25	410	550	220	285	
225M	356	311	149	225	M16	70	426	374	25	448	570	220	285	
250S	406	311	168	250	M20	79	482	381	28	448	595	220	285	
250M	406	349	168	250	M20	79	482	419	35	508	625	220	285	
280S	457	368	190	280	M20	83	540	438	35	508	655	220	285	
280M	457	419	190	280	M20	83	540	487	38	563	810	220	285	
315S	508	406	216	315	M24	89	597	483	38	563	845	330	326	
315M	508	457	216	315	M24	89	597	533	38	640	875	330	326	
315L	508	508	216	315	M24	89	597	583	38	640	875	330	326	

D FLANGE (B5)							C FACE (B14)						SHAFT DRIVE END										
FRAME	M	N	P	S	T	LA	FRAME	M	N	P	S	T	LA	FRAME	D	E	F	G	GD	EB	ED	DH	
63	115	95	140	10	3	7	63	75	60	90	M5	2.5	7	63	11	23	4	8.5	4	10	0	M4X10	
71	130	110	160	10	3.5	7	71	85	70	105	M6	2.5	9	71	14	30	5	11	5	20	5	M5X12.5	
80	165	130	200	12	3.5	12	80	100	80	120	M6	3.0	9	80	19	40	6	15.5	6	32	4	M6X16	
90S/L	165	130	200	12	3.5	10	90S/L	115	95	140	M8	3.0	9	90S/L	24	50	8	20	7	40	5	M8X19	
100L	215	180	250	14.5	4	12	100L	130	110	160	M8	3.5	12.5	100L	28	60	8	23.9	7	50	5	M10X22	
112M	215	180	250	14.5	4	12	112M	130	110	164	M8	3.5	13	112M	28	60	8	23.9	7	50	5	M10X22	
132S/M	265	230	300	14.5	4	12	132S/M	165	130	200	M10	3.5	14	132S/M	38	80	10	33	8	70	5	M12X28	
160M/L	300	250	350	18.5	5	13	160M/L	215	180	250	M14	4.0	13	160M/L	42	110	12	37	8	100	5	M16X36	
180M/L	300	250	350	18.5	5	15	180M/L	-	-	-	-	-	-	180M/L	48	110	14	42.5	9	100	5	M16X36	
200L	350	300	400	19	5	19	200L	-	-	-	-	-	-	200L	55	110	16	49	10	100	5	M20X42	
225S/M	400	350	450	19	5	19	225S/M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250S/M	500	450	550	19	5	25	250S/M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
280S/M	500	450	550	19	5	25	280S/M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
315S/M/L	600	550	660	24	6	29	315S/M/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

SHAFT DRIVE END																	
1800 RPM >									3600 RPM								
FRAME	D	E	F	G	GD	EB	ED	DH	FRAME	D	E	F	G	GD	EB	ED	DH
225S	60	140	18	53	11	125	5	M20X42	225S	55	110	16	49	10	100	5	M20X42
225M	60	140	18	53	11	125	5	M20X42	225M	55	110	16	49	10	100	5	M20X43
250S	70	140	20	62.5	12	125	5	M20X42	250S	60	140	18	53	11	125	5	M20X44
250M	70	140	20	62.5	12	125	5	M20X42	250M	60	140	18	53	11	125	5	M20X45
280S	80	170	22	71	14	160	5	M20X42	280S	65	140	18	58	11	125	5	M20X46
280M	80	170	22	71	14	160	5	M20X42	280M	65	140	18	58	11	125	5	M20X47
315S	85	170	22	76	14	160	5	M20X42	315S	65	140	18	58	11	125	5	M20X48
315M	85	170	22	76	14	160	5	M20X42	315M	65	140	18	58	11	125	5	M20X49
315L	85	170	22	76	14	160	5	M20X42	315L	65	140	18	58	11	125	5	M20X50

**Definition
IP (Ingress Protection)
IEC Metric Motors**



Protection Against Solid Objects			Protection Against Liquids		
#	Brief Description*	Definitions	#	Brief Description*	Definitions
0	Non-protected machines	No special protection	0	Non-protected machines	No special protection
1	Machine protected against solid objects greater than 50 mm**	Accidental or inadvertent contact with or approach to live and moving parts inside the enclosure by a large surface of the human body, such as a hand (but no protection against deliberate access). Ingress of solid objects exceeding 50 mm in diameter	1	Machine protected against dripping water	Dripping water (vertically falling drops) shall have no harmful effect.
2	Machine protected against solid objects greater than 12 mm**	Contact by fingers or similar objects not exceeding 80 mm in length with or approach to live or moving parts inside the enclosure. Ingress of solid objects exceeding 12 mm in diameter.	2	Machine protected against dripping water when tilted up to 15°	Vertically dripping water shall have no harmful effect when the machine is tilted in any angle up to 15° from its normal position
3	Machine protected against solid objects greater than 2.5 mm**	Contact with or approach to live or moving parts inside the enclosure by tools or wires exceeding 2.5 mm in diameter. Ingress of solid objects exceeding 1 mm in diameter.	3	Machine protected against spraying water	Vertically dripping water shall have no harmful effect when the machine is tilted in any angle up to 15° from its normal position
4	Machine protected against solid objects greater than 1mm**	Contact with or approach to live or moving parts inside the enclosure by wires or strips of thickness greater than 1 mm in diameter.	4	Machine protected against splashing water	Water falling as a spray at any angle up to 60° from the vertical shall have no harmful effect
5	Dust-protected machine†	Contact with or approach to live or moving parts inside the enclosure. Ingress of dust is not totally prevented but dust does not enter insufficient quantity to interfere with satisfactory operation of the machine.	5	Machine protected against water jets	Water projected by a nozzle against the machine from any direction shall have no harmful effect.
6	Dust-tight machine†	Contact with or approach to live or moving parts inside the enclosure. No ingress of dust	6	Machine protected against heavy seas	Water from heavy seas or water projected in powerful jets shall not enter the machine in harmful quantities.

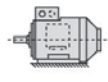
* The brief description given in column 2 on this table should not be used to specify the form of protection.

** Machines assigned a first characteristic number 1,2,3 or 4 will exclude both regularly or irregularly shaped solid objects proved that three normally per pendicular dimensions of the object exceed the appropriate figure in column "Definition".

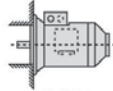
† The degree of protection against dust defined by this standard is a general one. When the nature (dimensions of particles, their nature, for instance fibrous particles) is specified, test conditions should be determined by an agreement between manufacturer and user.

IEC Mounting Codes

Horizontal shaft:



IM B3
IM 1001
foot mounted



IM B5
IM 3001
flange at DE
no feet



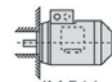
IM B6
IM 1051
foot wall mounted with
feet on left-hand side
when viewed from DE



IM B7
IM 1061
foot wall mounted with
feet on right-hand side
when viewed from DE

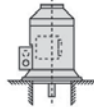


IM B8
IM 1071
ceiling mounted
with feet
above motor

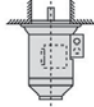


IM B14
IM 3601
face at DE
no feet

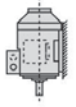
Vertical shaft:



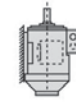
IM V1
IM 3011
flange at DE
shaft down
no feet



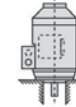
IM V3
IM 3031
flange at DE
shaft up
no feet



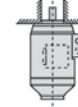
IM V5
IM 1011
vertical foot
wall mounted
shaft down



IM V6
IM 1031
vertical foot
wall mounted
shaft up



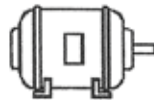
IM V18
IM 3611
face at DE
shaft down
no feet



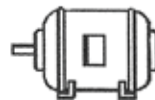
IM V19
IM 3631
face at DE
shaft up
no feet

NEMA Mounting Codes

FLOOR MOUNTINGS



ASSEMBLY F-1



ASSEMBLY F-2

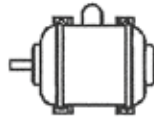


ASSEMBLY F-3

WALL MOUNTINGS



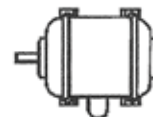
ASSEMBLY W-1



ASSEMBLY W-2



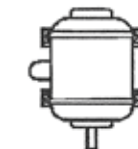
ASSEMBLY W-3



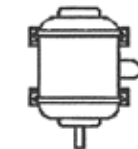
ASSEMBLY W-4



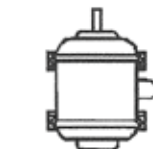
ASSEMBLY W-5



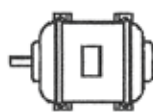
ASSEMBLY W-6



ASSEMBLY W-7



ASSEMBLY W-8



ASSEMBLY W-9



ASSEMBLY W-10



ASSEMBLY W-11



ASSEMBLY W-12

CEILING MOUNTINGS



ASSEMBLY C-1



ASSEMBLY C-2



ASSEMBLY C-3