

Features:

- Prepared for direct mounting to hydraulic pumps. No coupling or bell housing required.
- No coupling alignment necessary.
- Compact size due to elimination of bell housing.
- Reduced vibration and noise due to no rotating coupling or bell housing noise amplifier.
- IE3 compliant Premium Efficiency Electric Motors.
- Robust cast iron housing.
- Squirrel cage induction motor design



### Ordering Details

E	Electric Motor																																																																									
C	Close Coupled																																																																									
10-	Horsepower: 0.5, 1, 2, 3, 5, 7.5, 10, 15, 20, 30, 40																																																																									
215-	Frame Size, Nema:	<table border="1"> <thead> <tr> <th>Code/ Nema Frame</th> <th>Horsepower</th> <th>Code/ Nema Frame</th> <th>Horsepower</th> <th>Code/ Nema Frame</th> <th>Horsepower</th> </tr> </thead> <tbody> <tr> <td>56</td> <td>0.5</td> <td>184</td> <td>5</td> <td>256</td> <td>20</td> </tr> <tr> <td>143</td> <td>1</td> <td>213</td> <td>7.5</td> <td>284</td> <td>25</td> </tr> <tr> <td>145</td> <td>2</td> <td>215</td> <td>10</td> <td>286</td> <td>30</td> </tr> <tr> <td>182</td> <td>3</td> <td>254</td> <td>15</td> <td>324</td> <td>40</td> </tr> </tbody> </table>	Code/ Nema Frame	Horsepower	Code/ Nema Frame	Horsepower	Code/ Nema Frame	Horsepower	56	0.5	184	5	256	20	143	1	213	7.5	284	25	145	2	215	10	286	30	182	3	254	15	324	40																																										
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50/60	Frequency: 50/60 = 50 and 60 Hz dual frequency, 60= 60Hz only																																																																									
-	Options: Blank=none, C=Capacitor																																																																									
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Example Part Number: EC10-215-2A-K.8-3-1740-240/480-50/60-1

## Technical Specifications:

### 3 Phase –60 Hz, 4 Poles, IE3 Rated Totally Enclosed Fan Cooled (IP54), Class F Insulation

HP <sup>3</sup>	KW <sup>3</sup>	Frame		RPM <sup>2</sup>	Weight, kg	Number of Poles	Full Load Current, Amps		Power Factor, 100% Load, 22VAC	Efficiency, 100% Load, %	Efficiency, 75% Load, %	Efficiency, 50% Load, %
		NEMA	IEC				240VAC	480VAC				
0.5 <sup>1</sup>	.37	56	80L	1720	13	4	1.56	0.78	-	-	-	-
1	.75	143	80L	1720	17	4	2.7	1.3	79.0	85.5	87.2	94.8
2	1.5	145	90L	1740	25	4	5.4	2.7	78.0	86.5	87.4	88.1
3	2.2	182	100L	1750	38	4	7.8	3.9	79.0	89.5	89.5	90.1
5	3.7	184	112M	1760	48	4	11.9	6.0	83.0	89.5	90.6	91.8
7.5	5.5	213	132S	1760	68	4	17.4	8.7	85.0	91.7	89.8	94.1
10	7.5	215	132M	1760	80	4	22.9	11.5	87.5	91.7	91.9	94.1
15	11	254	160M	1770	120	4	33.0	16.5	87.4	92.4	93.4	92.6
20	15	256	160L	1770	150	4	44.7	22.4	87.9	93.0	93.0	92.5
25	18.5	284	180MC	1770	180	4	58.7	29.3	-	93.6	-	
30	22	286	180MC	1770	220	4	67.8	33.9	-	93.6	-	
40	30	324	180LC	1770	240	4	94.4	47.2	-	94.1	-	

<sup>1</sup>IE1 standard efficiency rated

<sup>2</sup>Over Speed = 120% for 1 min.

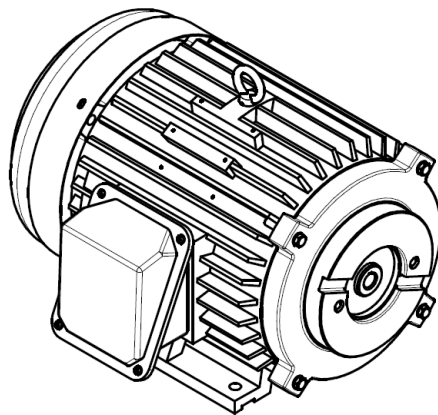
<sup>3</sup>Overtorque = 150% for 15 sec.

### 1 Phase –60 Hz, 4 Poles, IE3 Rated Totally Enclosed Fan Cooled, Class F Insulation

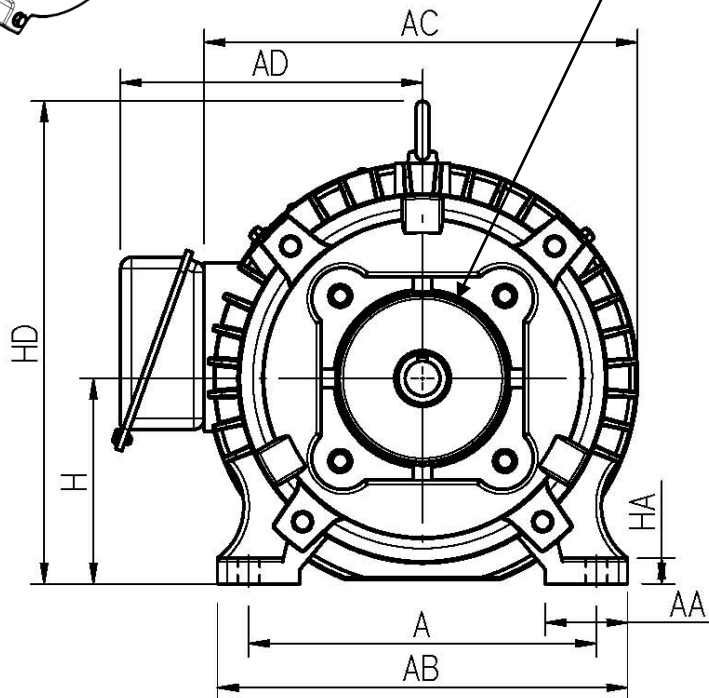
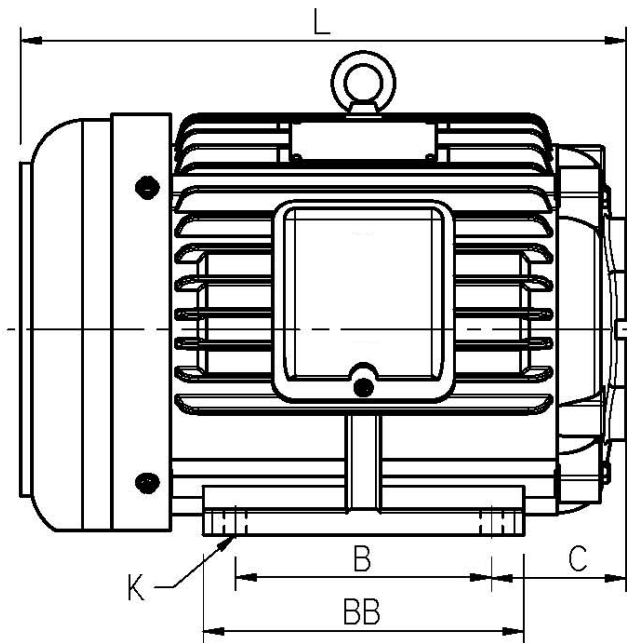
HP	KW	Frame		RPM	Weight, kg	Number of Poles	Full Load Current, Amps		Power Factor, 100% Load, 22VAC	Efficiency, 100% Load, %	Efficiency, 75% Load, %	Efficiency, 50% Load, %
		NEMA	IEC				240VAC	480VAC				
0.5 <sup>1</sup>	.37	56	80L			4						
1	.75	143	80L			4						
2	1.5	145	90L			4						
3	2.2	182	112M			4						
5	3.7	184	112M			4						

<sup>1</sup>Not IE3 rated

**Motor Dimensions, 3 Phase:**



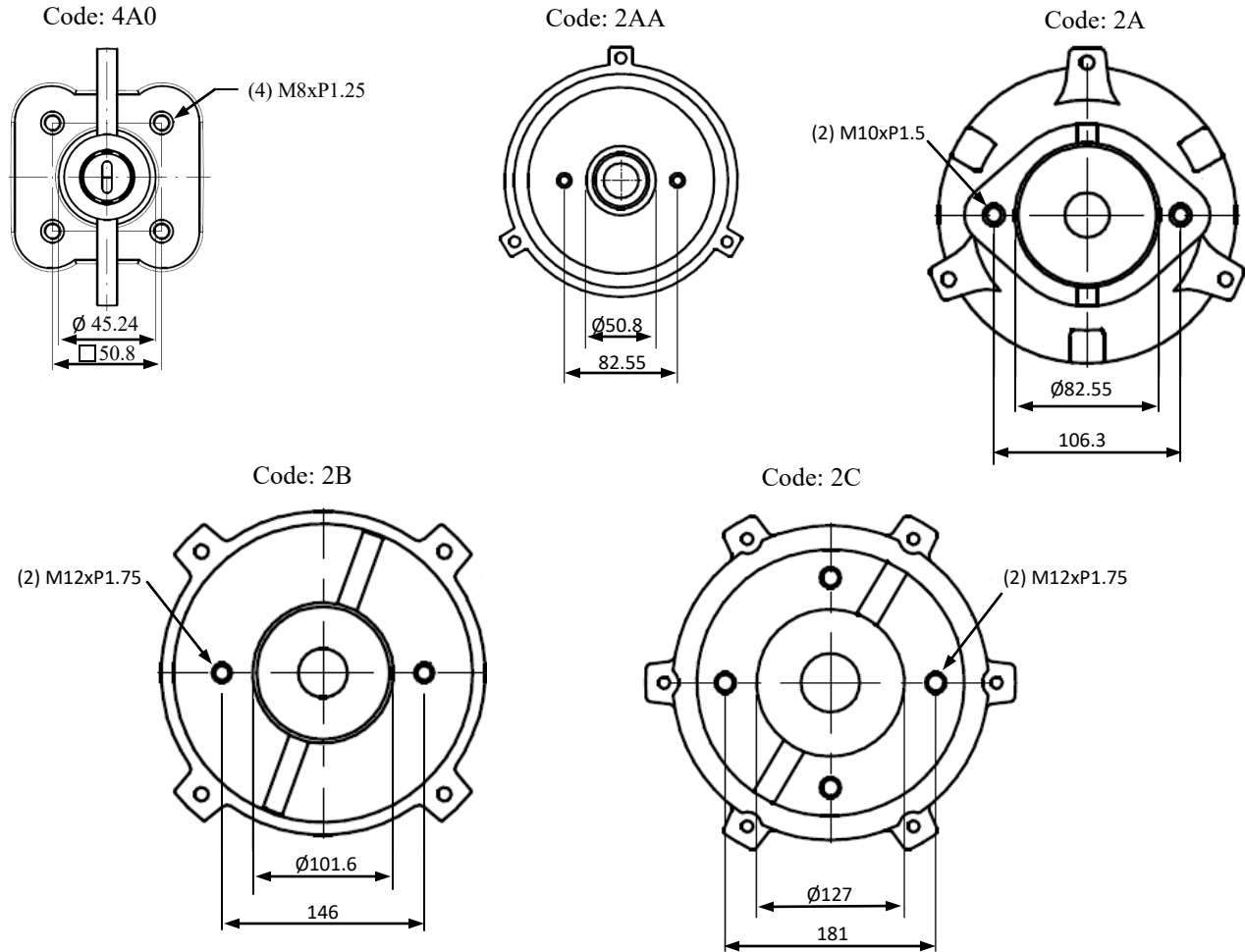
Reference Page 4 for Pump Flange Dimensions.



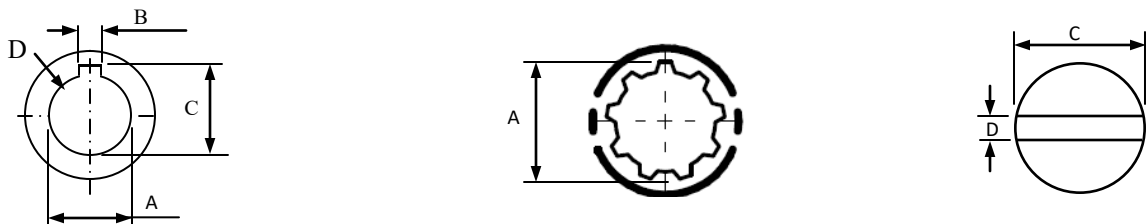
HP	KW	Frame		Dimensions												
		NEMA	IEC	A	AA	AB	AC	AD	B	BB	C	H	HA	HD	K	L
0.5	.37	56	80L													
1	.75	143	80L	125	35	155	174	136	100	130	53.5	80	10	167	10	237
2	1.5	145	90L	140	40	172	195	146	125	156	52	90	10	192	12	270
3	2.2	182	100L	160	41	197	220	162	140	177	65	100	13	245	12	303
5	3.7	184	112M	190	45	224	237	1265	140	175	73.5	112	14	263	12	331
7.5	5.5	213	132S	216	50	253	274	218	140	213	92	132	15	308	12	374
10	7.5	215	132M	216	50	253	275	217	178	213	92	132	15	308	12	412
15	11	254	160M	254	50	300	339	256	210	250	86.5	160	18	374	15	478
20	15	256	160L	254	50	300	339	256	254	300	86.5	160	18	374	15	522
25	18.5	284	180MC													
30	22	286	180MC													
40	30	324	180LC													

## Pump Mounting Flange and Shaft Dimensions (mm):

### Flange Mounts:



### Shaft Hole Dimensions:



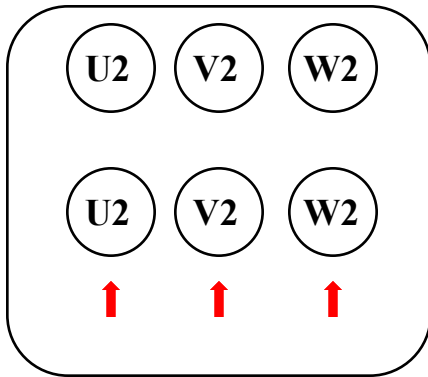
Code	Hole Dia. (A)	Key Width (B)	Height (C)	Min. Hole Depth (From mounting bolt face) (D)
K0.5	12.7 <sup>+0.018/-0.0</sup>	3.175 <sup>+0.05/-0.03</sup>	14.3 <sup>+0.015/-0.10</sup>	35
K0.6	15.875 <sup>+0.018/-0.0</sup>	4.00 <sup>+0.05/-0.03</sup>	17.9 <sup>+0.015/-0.10</sup>	35
K0.7	19.05 <sup>+0.021/-0.0</sup>	4.76 <sup>+0.05/-0.03</sup>	21.4 <sup>+0.015/-0.10</sup>	44
K0.8	22.23 <sup>+0.021/-0.0</sup>	6.35 <sup>+0.05/-0.03</sup>	25.1 <sup>+0.015/-0.10</sup>	58
K1.0	25.4 <sup>+0.021/-0.0</sup>	6.35 <sup>+0.05/-0.03</sup>	28.5 <sup>+0.15/-0.10</sup>	78
K1.25	31.75 <sup>+0.021/-0.0</sup>	7.94 <sup>+0.05/-0.03</sup>	35.5 <sup>+0.15/-0.10</sup>	84
K1.5	38.1 <sup>+0.021/-0.0</sup>	9.525 <sup>+0.05/-0.03</sup>	42.36 <sup>+0.15/-0.10</sup>	85

Code	Hole Dia. (A)	Spline Details	Min. Hole Depth (From mounting bolt face)
9T.5	12.7	9T 20/40	27
9T.6	15.875	9T 16/32	32
13T.8	22.225	13T 16/32 DP	42

Code	Tang Length (C)	Tang Width (D)
T4.4	14	4.4
T5	10	5

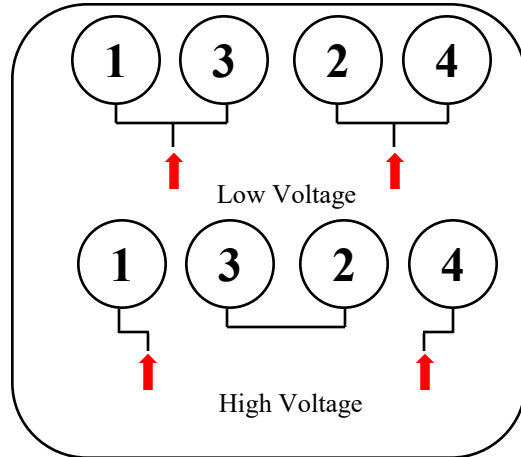
# Wiring Diagram:

## 3 Phase:



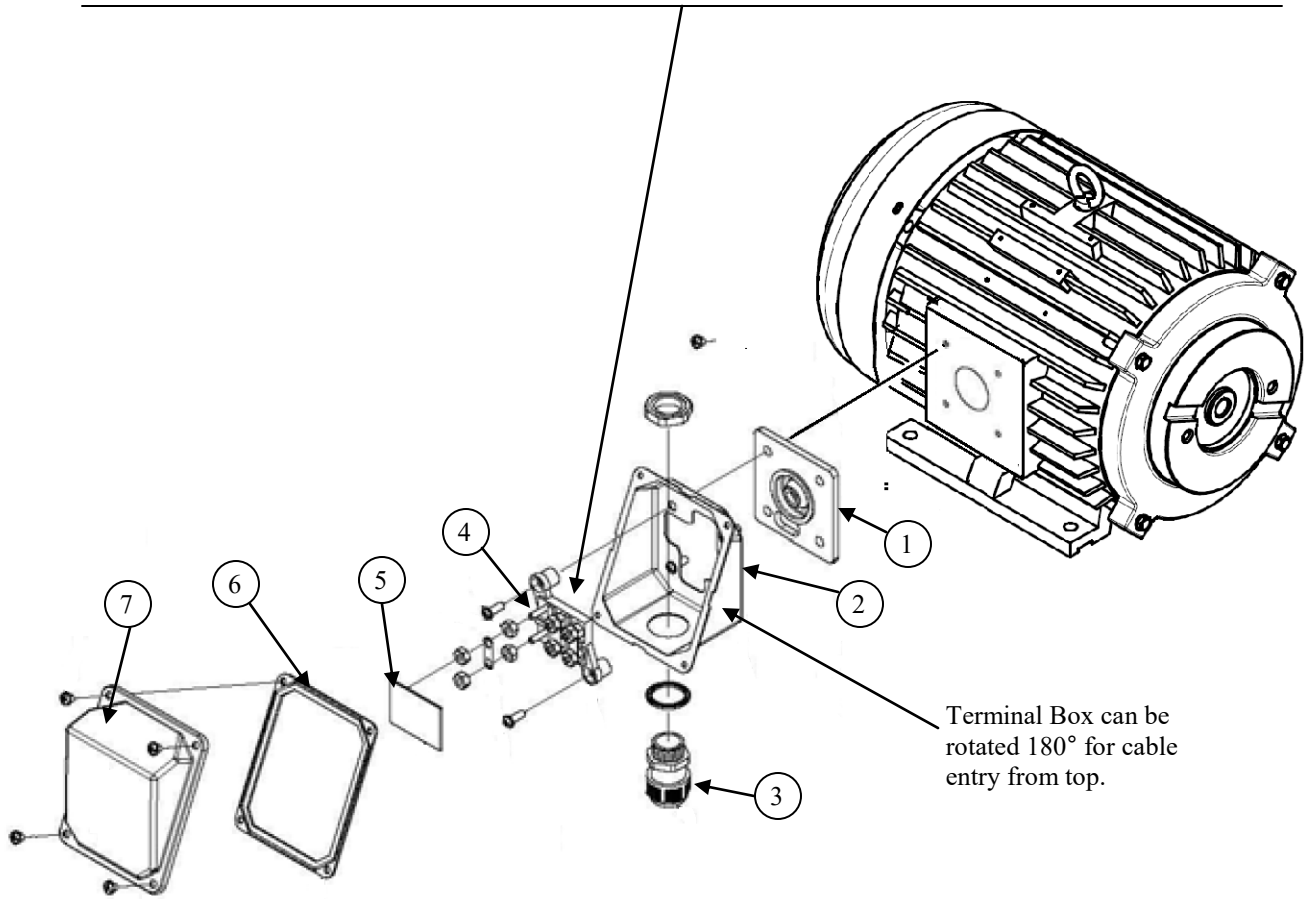
4-Pole

## 1 Phase:



High Voltage

4-Pole



Item No.	Description
1	Terminal Box Motor Seal
2	Terminal Box Lower Cover
3	Cable Gland Assembly
4	Terminal Connection Board
5	Terminal Board Cover
6	Terminal Box Upper Cover Seal
7	Terminal Box Upper Cover