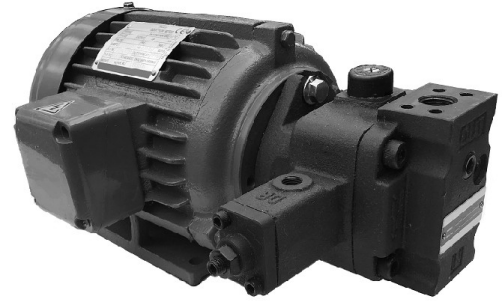


**Features:**

- 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**

S	System																																																									
PM-	Pump/Motor Group																																																									
EG	Pump Type: EG = External Gear (fixed Volume); AP=Axial Piston (Variable Volume); V = Vane (Variable Volume)																																																									
12	Pump Displacement, cc/rev: (Reference Page 2 for selection)	<table border="1"> <thead> <tr> <th colspan="2">EG Pump</th> <th colspan="2">AP Pump</th> <th colspan="2">V Pump</th> </tr> <tr> <th>Code:</th> <th>cc/rev.</th> <th>Code:</th> <th>cc/rev.</th> <th>Code:</th> <th>cc/rev.</th> </tr> </thead> <tbody> <tr> <td>1.3, 2, 2.7, 3.4, 4, 6, 8, 12, 14, 16, 20, 28, 30</td> <td></td> <td>10, 18, 25, 38, 42, 70</td> <td></td> <td>8, 12, 16</td> <td></td> </tr> </tbody> </table>	EG Pump		AP Pump		V Pump		Code:	cc/rev.	Code:	cc/rev.	Code:	cc/rev.	1.3, 2, 2.7, 3.4, 4, 6, 8, 12, 14, 16, 20, 28, 30		10, 18, 25, 38, 42, 70		8, 12, 16																																							
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2A	Pump Mounting Flange:	<table border="1"> <thead> <tr> <th>Code</th> <th>Flange Details</th> <th>EG Pump cc/rev.</th> <th>AP Pump cc/rev.</th> <th>V Pump cc/rev.</th> </tr> </thead> <tbody> <tr> <td>2AA</td> <td>SAE AA, 2 Bolt</td> <td>1.3, 2, 2.7, 3.4</td> <td>-</td> <td>-</td> </tr> <tr> <td>2A</td> <td>SAE A, 2 Bolt</td> <td>4, 6, 8, 12, 14, 16, 20, 28, 30</td> <td>10, 18</td> <td>8, 12, 16</td> </tr> <tr> <td>2B</td> <td>SAE B, 2 Bolt</td> <td>-</td> <td>25, 38, 42</td> <td>-</td> </tr> <tr> <td>2C</td> <td>SAE C, 2 Bolt</td> <td>-</td> <td>70</td> <td>-</td> </tr> </tbody> </table>	Code	Flange Details	EG Pump cc/rev.	AP Pump cc/rev.	V Pump cc/rev.	2AA	SAE AA, 2 Bolt	1.3, 2, 2.7, 3.4	-	-	2A	SAE A, 2 Bolt	4, 6, 8, 12, 14, 16, 20, 28, 30	10, 18	8, 12, 16	2B	SAE B, 2 Bolt	-	25, 38, 42	-	2C	SAE C, 2 Bolt	-	70	-																															
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K0.6-	Pump Shaft:	<p><b>Keyed</b></p> <table border="1"> <thead> <tr> <th>Code</th> <th>Shaft Dia., in.</th> <th>Key Width, in.</th> <th>EG Pump cc/rev.</th> <th>AP Pump cc/rev.</th> <th>V Pump cc/rev.</th> </tr> </thead> <tbody> <tr> <td>K0.5</td> <td>0.500</td> <td>0.125</td> <td>1.3, 2, 2.7, 3.4</td> <td>-</td> <td>-</td> </tr> <tr> <td>K0.6</td> <td>0.625</td> <td>0.156</td> <td>4, 6, 8, 12, 14, 16, 20, 28, 30</td> <td>-</td> <td>-</td> </tr> <tr> <td>K0.7</td> <td>0.750</td> <td>0.187</td> <td>-</td> <td>10, 18</td> <td>8, 12, 16</td> </tr> <tr> <td>K0.8</td> <td>0.875</td> <td>0.250</td> <td>-</td> <td>25, 38, 42</td> <td>-</td> </tr> <tr> <td>K1.2</td> <td>1.25</td> <td>0.312</td> <td>-</td> <td>70</td> <td>-</td> </tr> </tbody> </table>	Code	Shaft Dia., in.	Key Width, in.	EG Pump cc/rev.	AP Pump cc/rev.	V Pump cc/rev.	K0.5	0.500	0.125	1.3, 2, 2.7, 3.4	-	-	K0.6	0.625	0.156	4, 6, 8, 12, 14, 16, 20, 28, 30	-	-	K0.7	0.750	0.187	-	10, 18	8, 12, 16	K0.8	0.875	0.250	-	25, 38, 42	-	K1.2	1.25	0.312	-	70	-																				
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H	Motor Mounting Direction: H=Horizontal																																																									
10	Horsepower: (Reference Page 2 for selection)	<table border="1"> <thead> <tr> <th>Code</th> <th>EG Pump cc/rev.</th> <th>AP Pump cc/rev.</th> <th>V Pump cc/rev.</th> </tr> </thead> <tbody> <tr> <td>0.5, 1</td> <td>1.3 - 4</td> <td>-</td> <td>-</td> </tr> <tr> <td>1.5</td> <td>1.3 - 12</td> <td>-</td> <td>-</td> </tr> <tr> <td>2</td> <td>2 - 12</td> <td>-</td> <td>8</td> </tr> <tr> <td>3</td> <td>2.7 - 20</td> <td>8, - 12</td> <td>12, 16</td> </tr> <tr> <td>5</td> <td>3.4 - 30</td> <td>8 - 18</td> <td>-</td> </tr> <tr> <td>7.5</td> <td>6 - 30</td> <td>8, - 28</td> <td>-</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Code</th> <th>EG Pump cc/rev.</th> <th>AP Pump cc/rev.</th> <th>V Pump cc/rev.</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>8 - 30</td> <td>10-70</td> <td>-</td> </tr> <tr> <td>15</td> <td>-</td> <td>10-70</td> <td>-</td> </tr> <tr> <td>20</td> <td>-</td> <td>18-70</td> <td>-</td> </tr> <tr> <td>25</td> <td>-</td> <td>25-70</td> <td>-</td> </tr> <tr> <td>30</td> <td>-</td> <td>25-70</td> <td>-</td> </tr> <tr> <td>40</td> <td>-</td> <td>28-70</td> <td>-</td> </tr> </tbody> </table>	Code	EG Pump cc/rev.	AP Pump cc/rev.	V Pump cc/rev.	0.5, 1	1.3 - 4	-	-	1.5	1.3 - 12	-	-	2	2 - 12	-	8	3	2.7 - 20	8, - 12	12, 16	5	3.4 - 30	8 - 18	-	7.5	6 - 30	8, - 28	-	Code	EG Pump cc/rev.	AP Pump cc/rev.	V Pump cc/rev.	10	8 - 30	10-70	-	15	-	10-70	-	20	-	18-70	-	25	-	25-70	-	30	-	25-70	-	40	-	28-70	-
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240/480	240 or 480	3	0.5, 1, 2, 3, 5, 7.5, 10, 15, 20, 25, 30, 40																																																							
1	Series: 1																																																									

Example Part Number: SPM-EG122AK0.6-H10240/480-1

# Performance Specifications:

## Fixed Displacement Pump –EG

Pump Type	Pump, cc/rev.	Motor, HP	Pump Limits		*Pump with Motor HP Limits	
			Max. Flow, GPM	Max. Pressure, PSI	Appr. Max. Flow at Max. Pressure, GPM	Appr. Max. Pressure at Max. Flow, PSI
EG	1.3	0.5	0.59	2900	0.25	1307
EG		1	0.59	2900	0.50	2615
EG		1.5	0.59	2900	0.59	2900
EG	2.2	0.5	0.91	2900	0.25	848
EG		1	0.91	2900	0.50	1695
EG		1.5	0.91	2900	0.75	2543
EG		2	0.91	2900	0.91	2900
EG		2.7	0.91	2900	0.91	2900
EG	2.7	0.5	1.22	2900	0.25	632
EG		1	1.22	2900	0.50	1264
EG		1.5	1.22	2900	0.75	1897
EG		2	1.22	2900	1.00	2529
EG		3	1.22	2900	1.22	2900
EG	3.4	0.5	1.54	2900	0.25	501
EG		1	1.54	2900	0.50	1002
EG		1.5	1.54	2900	0.75	1503
EG		2	1.54	2900	1.00	2003
EG		3	1.54	2900	1.51	2900
EG		5	1.56	2900	1.56	2900
EG	4	0.5	1.81	3625	0.20	426
EG		1	1.81	3625	0.40	852
EG		1.5	1.81	3625	0.60	1278
EG		2	1.81	3625	0.80	1705
EG		3	1.81	3625	1.21	2557
EG		5	1.83	3625	1.83	3625
EG	6	1.5	2.72	3625	0.60	851
EG		2	2.72	3625	0.80	1134
EG		3	2.72	3625	1.21	1701
EG		5	2.75	3625	2.01	2805
EG		7.5	2.75	3625	2.75	3625
EG	8	1.5	3.62	3625	0.60	639
EG		2	3.62	3625	0.80	852
EG		3	3.62	3625	1.21	1278
EG		5	3.66	3625	2.01	2107
EG		7.5	3.66	3625	3.01	3161
EG		10	3.66	3625	3.66	3625
EG		15	3.66	3625	3.66	3625
EG	12	1.5	5.43	3625	0.60	426
EG		2	5.43	3625	0.80	568
EG		3	5.43	3625	1.21	852
EG		5	5.49	3625	2.01	1405
EG		7.5	5.49	3625	3.01	2107
EG		10	5.49	3625	4.02	2810
EG	14	15	5.49	3625	5.49	3625
EG		3	6.34	3625	1.21	730
EG		5	6.41	3625	2.01	1203
EG		7.5	6.41	3625	3.01	1805
EG		10	6.41	3625	4.02	2407
EG	16	15	6.41	3625	6.03	3610
EG		3	7.24	3625	1.21	639
EG		5	7.33	3625	2.01	1052
EG		7.5	7.33	3625	3.01	1578
EG		10	7.33	3625	4.02	2105
EG		15	7.33	3625	6.03	3157
EG	20	20	7.33	3625	7.33	3625
EG		3	9.05	3625	1.21	511
EG		5	9.16	3625	2.01	842
EG		7.5	9.16	3625	3.01	1263
EG		10	9.16	3625	4.02	1684
EG	23	15	9.16	3625	6.03	2526
EG		20	9.16	3625	8.04	3368
EG		5	10.53	2900	2.51	732
EG		7.5	10.53	2900	3.77	1099
EG	28	10	10.53	2900	5.02	1465
EG		15	10.53	2900	7.54	2197
EG		20	10.53	2900	10.05	2900
EG		5	12.82	2320	3.14	602
EG		7.5	12.82	2320	4.71	902
EG	30	10	12.82	2320	6.28	1203
EG		15	12.82	2320	9.42	1805
EG		20	12.82	2320	12.56	2320
EG		5	13.74	2320	3.14	561
EG	30	7.5	13.74	2320	4.71	842
EG		10	13.74	2320	6.28	1123
EG		15	13.74	2320	9.42	1684
EG		20	13.74	2320	12.56	2245

## Variable Displacement Pump, V and AP

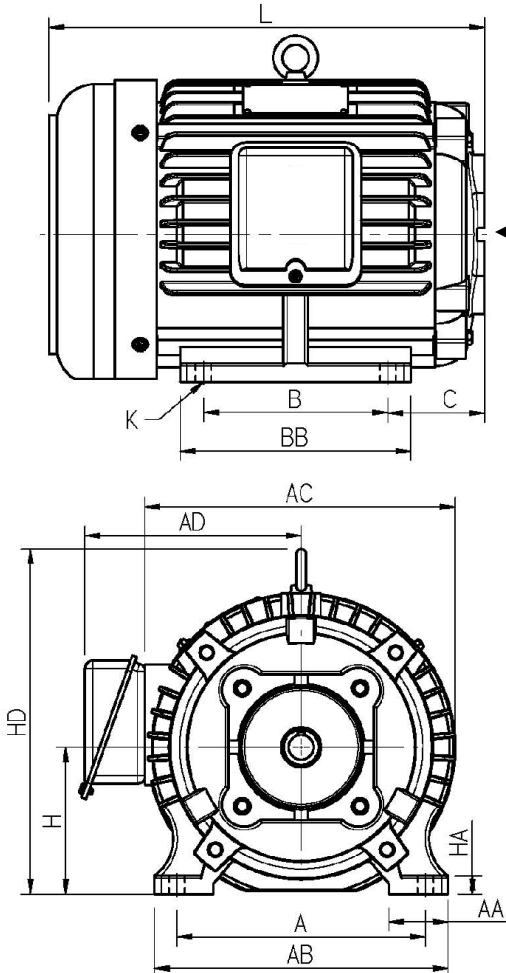
Pump Type	Pump, cc/rev.	Motor, HP	Pump Limits		*Pump with Motor HP Limits	
			Max. Flow, GPM	Max. Pressure, PSI	Appr. Max. Flow at Max. Pressure, GPM	Appr. Max. Pressure at Max. Flow, PSI
V	8	2	3.62	797	3.6	797
AP	10	5	4.58	3625	2.0	1591
AP		7.5	4.58	3625	3.0	2386
AP		10	4.58	3625	4.0	3181
AP		3	4.58	3625	1.2	954
AP		5	4.58	3625	2.0	1591
AP		7.5	4.58	3625	3.0	2386
AP	12	10	4.58	3625	4.0	3181
AP		15	4.58	3625	4.6	3625
V		3	5.43	797	5.4	797
V	16	3	7.24	797	5.5	604
AP	18	5	8.24	3625	2.0	884
AP		7.5	8.24	3625	3.0	1326
AP		10	8.24	3625	4.0	1768
AP		15	8.24	3625	6.0	2652
AP		20	8.24	3625	8.0	3536
AP		25	7.5	11.45	3625	3.0
AP	10		11.45	3625	4.0	1272
AP	15		11.45	3625	6.0	1909
AP	20		11.45	3625	8.0	2545
AP	25		11.45	3625	10.0	3181
AP	30		11.45	3625	11.5	3625
AP	38	10	17.4	3625	4.0	837
AP		15	17.4	3625	6.0	1256
AP		20	17.4	3625	8.0	1675
AP		25	17.4	3625	10.0	2093
AP		30	17.4	3625	12.1	2512
AP		40	17.4	3625	16.1	3349
AP	42	10	19.23	3625	4.0	758
AP		15	19.23	3625	6.0	1136
AP		20	19.23	3625	8.0	1515
AP		25	19.23	3625	10.0	1894
AP		30	19.23	3625	12.1	2273
AP		40	19.23	3625	16.1	3030
AP	70	10	32.05	3625	4.0	455
AP		15	32.05	3625	6.0	682
AP		20	32.05	3625	8.0	909
AP		25	32.05	3625	10.0	1136
AP		30	32.05	3625	12.1	1364
AP		40	32.05	3625	16.1	1818

Note:

\*Due to the limit of the motor power, both the max. pressure and max flow may not be possible together. Listed are the limits of flow when max pressure is needed and the limits of pressure when max flow is needed.

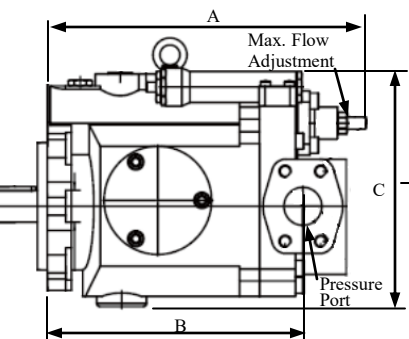
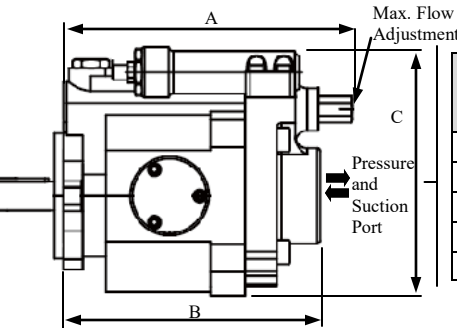
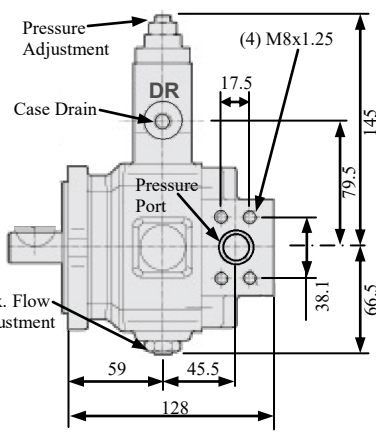
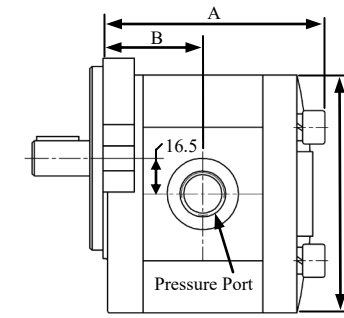
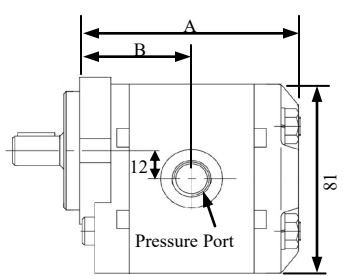
The motor may be over powered up to 150% for not longer than 15 seconds.

**Pump/Motor Dimensions, 3 Phase:**



HP	KW	Dimensions					
		A	AA	AB	AC	AD	B
0.5	.37						
1	.75	125	35	155	174	136	100
2	1.5	140	40	172	195	146	125
3	2.2	160	41	197	220	162	140
5	3.7	190	45	224	237	1265	140
7.5	5.5	216	50	253	274	218	140
10	7.5	216	50	253	275	217	178
15	11	254	50	300	339	256	210
20	15	254	50	300	339	256	254
25	18.5						
30	22						
40	30						

HP	KW	Dimensions						
		BB	C	H	HA	HD	K	L
0.5	.37							
1	.75	130	53.5	80	10	167	10	237
2	1.5	156	52	90	10	192	12	270
3	2.2	177	65	100	13	245	12	303
5	3.7	175	73.5	112	14	263	12	331
7.5	5.5	213	92	132	15	308	12	374
10	7.5	213	92	132	15	308	12	412
15	11	250	86.5	160	18	374	15	478
20	15	300	86.5	160	18	374	15	522
25	18.5							
30	22							
40	30							



**EG- Series 8, SAE AA**

Displacement cc/rev.	A mm	B mm	Pressure Port	Suction Port
1.3	82	42	SAE -6	SAE -8
2	84	43	SAE -6	SAE -10
2.7	86	44	SAE -10	SAE -12
3.4	88	45	SAE -10	SAE -12

**EG- Series 8, SAE A**

Displacement cc	A mm	B mm	Pressure Port	Suction Port
4	96	43.3	SAE -8	SAE -10
6	98	45	SAE -8	SAE -10
8	102	46.5	SAE -10	SAE -12
10	104	48	SAE -10	SAE -12
12	108	49.5	SAE -10	SAE -12
14	110	51	SAE -10	SAE -12
16	114	52.5	SAE -10	SAE -12
20	120	56	SAE -10	SAE -12
23	123	58	SAE -10	SAE -12
25	128	60	SAE -10	SAE -12
28	133	63	SAE -10	SAE -12
30	136	64	SAE -10	SAE -12

**V - Series 0, SAE A**

Displacement cc	Pressure Port	Suction Port	Case Drain DR
8	1/2" NPTF	3/4" NPTF	1/4" NPTF
12	1/2" NPTF	3/4" NPTF	
16	1/2" NPTF	3/4" NPTF	

**AP - Series 5, SAE A and B, Rear Port**

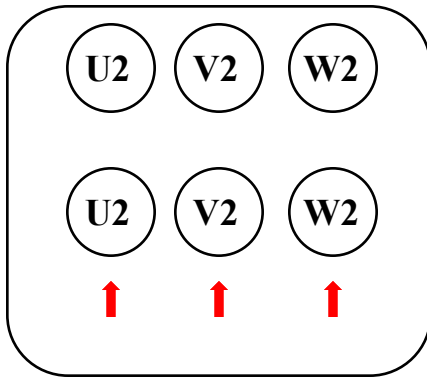
Displacement cc	A mm	B mm	C mm	Pressure Port	Suction Port
10	211	189	163	SAE -16	SAE -16
18	211	189	163	SAE -16	SAE -16
25	211	189	163	SAE -16	SAE -16
38	222	202	163	SAE -16	SAE -16
42	222	202	163	SAE -16	SAE -16

**AP - Series 5, SAE C, Rear Port**

Displacement cc	A mm	B mm	C mm	Pressure Port	Suction Port
70	320	256.5	266	Code 61, 1.25" Flange	Code 61, 1.25" Flange

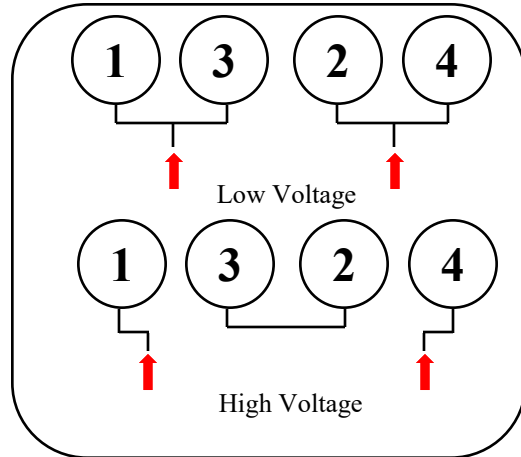
## Wiring Diagram:

3 Phase:

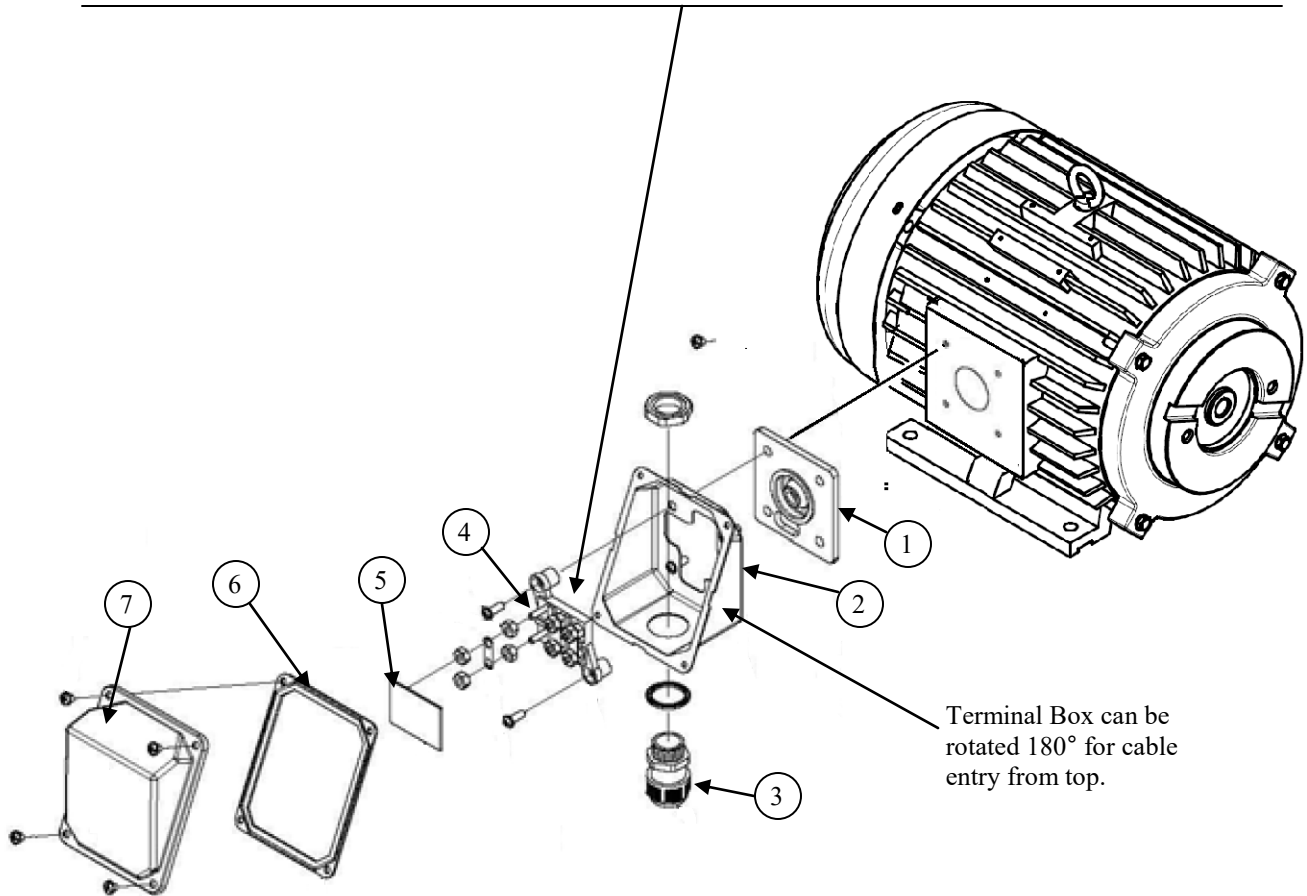


4-Pole

1 Phase:



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