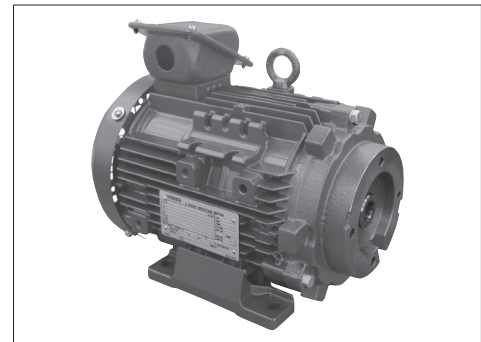


**MT Series Electric Motors**

AR/A/A3H series variable displacement piston pumps and PV2R series vane pumps can be installed directly to these electric motors. The power output range is from 0.75 to 18.5 kW.

Two types are available: directly connected type in which the pump shaft is directly inserted in the hollow motor shaft (models M1 and M2); and bell housing type in which couplings are used (models M3 to M7).

- Easy to install a pump
- Free from worry about noise and vibration caused by insufficient centering.
- Compact in size, requiring less space for installation.
- Safe because the rotating part is not exposed.



**Specifications**

| Model Numbers  | Output × Number of Poles | Voltage-Frequency V Hz     | Rated Current A      | Starting Current A   | Rotational Speed r/min | Insulation Class | Mass kg                      | Type Ambient Conditions in Using   |
|--|--------------------------|----------------------------|----------------------|----------------------|------------------------|------------------|------------------------------|--|
| M1-0.75-41   | 0.75 kW×4P               | 200-50<br>200-60<br>220-60 | 3.8<br>3.4<br>3.4    | 27.3<br>23.8<br>26.2 | 1440<br>1730<br>1745   | F                | 17.5                         | <ul style="list-style-type: none"> <li>●Type<br/>Total Enclosed Splash Proof Type (IP44 IC411, IEC60034-1)</li> <li>●Ambient Conditions in Using<br/>Location : Indoor Room<br/>Ambient Temperature Range : -20 to +40 °C<br/>Ambient Humidity : 100 % RH or less (bedewing must be avoided)<br/>Altitude : 1000 m or less<br/><br/>To be nothing corrosive and explosive gasses and steam.</li> </ul> |
| M1-1.5-41  | 1.5 kW×4P                | 200-50<br>200-60<br>220-60 | 6.8<br>6.4<br>6.0    | 46.6<br>41.0<br>45.1 | 1445<br>1740<br>1750   | F                | 22.0                         |  |
| M1-2.2-41  | 2.2 kW×4P                | 200-50<br>200-60<br>220-60 | 10.6<br>9.4<br>9.2   | 96.0<br>81.0<br>89.1 | 1460<br>1755<br>1765   | F                | 30.0                         |  |
| M1-3.7-41<br>M2-3.7-40   | 3.7 kW×4P                | 200-50<br>200-60<br>220-60 | 15.6<br>14.6<br>13.8 | 134<br>118<br>130    | 1460<br>1755<br>1765   | F                | 41.0                         |  |
| M2-5.5-40<br>M3-5.5-40<br>M4-5.5-40<br>M5-5.5-40<br>M6-5.5-40              | 5.5 kW×4P                | 200-50<br>200-60<br>220-60 | 23.4<br>21.4<br>20.6 | 200<br>166<br>183    | 1465<br>1760<br>1765   | F                | 62.0<br>63.0<br>65.0<br>68.0 |  |
| M2-7.5-40<br>M3-7.5-40<br>M4-7.5-40<br>M5-7.5-40<br>M6-7.5-40<br>M7-7.5-40 | 7.5 kW×4P                | 200-50<br>200-60<br>220-60 | 30.8<br>28.6<br>27.4 | 264<br>218<br>240    | 1460<br>1755<br>1765   | F                | 75.0<br>74.0<br>76.0<br>77.5 |  |
| M4-11-40<br>M5-11-40<br>M7-11-40   | 11 kW×4P                 | 200-50<br>200-60<br>220-60 | 46.0<br>42.0<br>40.0 | 365<br>302<br>332    | 1475<br>1770<br>1775   | F                | 114.0<br>131.0               |  |
| M4-15-40<br>M5-15-40<br>M7-15-40   | 15 kW×4P                 | 200-50<br>200-60<br>220-60 | 58.8<br>55.6<br>52.0 | 484<br>408<br>449    | 1470<br>1760<br>1770   | F                | 131.0                        |  |
| M4-18.5-40<br>M5-18.5-40   | 18.5 kW×4P               | 200-50<br>200-60<br>220-60 | 74.0<br>69.0<br>65.0 | 668<br>524<br>576    | 1475<br>1770<br>1775   | F                | 193.0                        |  |

★1. For motors other than those for 200 / 220 V AC, please contact us.

**Application**

| Model Numbers          | Piston Pumps          |                         |                               | Vane Pumps★1 |
|------------------------|-----------------------|-------------------------|-------------------------------|--------------|
|                        | Single Pumps          | Double Pumps            | Variable / Fixed Double Pumps |              |
| M1- * -41<br>M3- * -40 | AR16/AR22/A10/A16/A22 | A1616/A1622/A2222       | A16R1/A22R1                   | PV2R1        |
| M2- * -40<br>M4- * -40 | A37 (excluding 04E)   | -                       | -                             | PV2R2★2      |
| M5- * -40              | A37 (04E) /A56        | A1637/A2237/A1656/A2256 | A37R1/A56R1                   | -            |
| M6- * -40              | A3H16                 | -                       | -                             | -            |
| M7- * -40              | A3H37                 | -                       | -                             | -            |

★1. Vane pump is also possible. However, different mounting bolt is required in order to install the vane pumps.

★2. This pump is special designed product. Please contact us for further details.

### Model Number Designation

| M1                             | -1.5  | -R  | -41           |
|--------------------------------|---|---|---------------|
| Series Number                  | Motor Capacity  | Terminal Box Location <sup>★1</sup>   | Design Number |
| M1 [For AR16/AR22/A10/A16/A22] | 0.75: 0.75 kW×4P, 1.5: 1.5 kW×4P,<br>2.2: 2.2 kW×4P, 3.7: 3.7 kW×4P | [When viewed from the pump mounting surface]<br><br><b>None:</b> Upper Side (Standard)<br><br><b>R:</b> Right Side<br><b>L:</b> Left Side | 41            |
| M2 [For A37 (excluding 04E)]   | 3.7: 3.7 kW×4P, 5.5: 5.5 kW×4P,<br>7.5: 7.5 kW×4P                   |   | 40            |
| M3 [For AR16/AR22/A10/A16/A22] | 5.5: 5.5 kW×4P, 7.5: 7.5 kW×4P                                      |   |               |
| M4 [For A37 (excluding 04E)]   | 5.5: 5.5 kW×4P, 7.5: 7.5 kW×4P,<br>11: 11 kW×4P, 15: 15 kW×4P,      |   |               |
| M5 [For A37(04E)/A56]          | 18.5: 18.5 kW×4P  |   |               |
| M6 [For A3H16]                 | 5.5: 5.5 kW×4P, 7.5: 7.5 kW×4P                                      |   |               |
| M7 [For A3H37]                 | 7.5: 7.5 kW×4P, 11: 11 kW×4P,<br>15: 15 kW×4P                       |   |               |

★1. For the following models, either the left or right side terminal box location is selectable [the upper side (standard) terminal box is not available].  
M1-0.75 / M4-18.5 / M5-18.5