

## Contact Details

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# Motor Pumps



## Features

- These are motor pumps that integrate a DS10P type vane pump and an electric motor in one body. Adoption of a direct coupling system enables one-touch assembly without couplings, protective covers, a pump base, or even centering work.

## Nomenclature

※ - MD ※ ※ - 60  
 1 2 3 4 5

### 1 Applicable fluid code

No designation: Petroleum-based hydraulic fluid, water-glycol hydraulic fluid  
 Water/oil emulsion type hydraulic fluid  
 F: Phosphate ester hydraulic fluid

### 2 Model No.

MD: Compact single stage vane pump

### 3 Pump capacity code

1: DS11P  
 2: DS12P  
 3: DS13P  
 4: DS14P

### 4 Motor output

1: 0.75 kW-4P  
 2: 1.5 kW-4P  
 3: 2.2 kW-4P

### 5 Design No.

(The design No. is subject to change)

## Specifications

Model No.	Pump					Motor						
	Pump model	Discharge rate (at no load) L/min		Maximum operating pressure MPa {kgf/cm <sup>2</sup> }		Output (number of poles) kW (4P)	Rated current A			Starting current A		
		50Hz	60Hz	50Hz	60Hz		200V (50Hz)	200V (60Hz)	220V (60Hz)	200V (50Hz)	200V (60Hz)	220V (60Hz)
MD11	DS11P	4.1	5.0	5.2 {52}	4.4 {44}	0.75	4.2	3.6	3.6	28	25	28
MD21	DS12P	6.4	7.7	3.6 {36}	3.0 {30}							
MD22				7.0 {70}	7.0 {70}	1.5	6.8	6.3	6.0	42	37	41
MD32	DS13P	10.5	12.6	5.6 {56}	4.7 {47}							
MD33				7.0 {70}	7.0 {70}	2.2	10.4	9.3	9.1	74	64	70
MD43	DS14P	18.4	22.1	5.2 {52}	4.3 {43}							

### ● Electric wiring

- Connect the power cable such that the phases at the pump motor and power supply sides are as shown to the right. Check that the pressure rises at the pressure gauge. If the motor rotates in the reverse direction, switch the connection between two phases among the three to correct the direction of rotation.



- Be sure to connect the ground terminal.
- Install a no-fuse breaker on the main power supply. In addition, install an earth leakage breaker.
- These are premium efficiency products and therefore they tend to have a higher starting current value than products with the old design. Pay attention to the design of the power distribution when replacing products of the old design.

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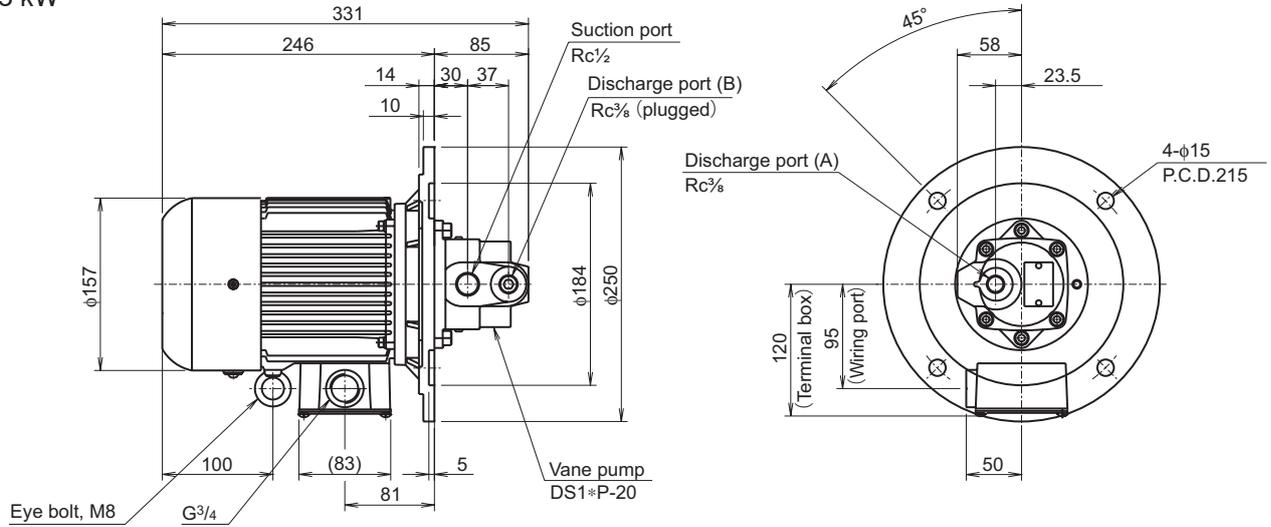
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VANE PUMPS

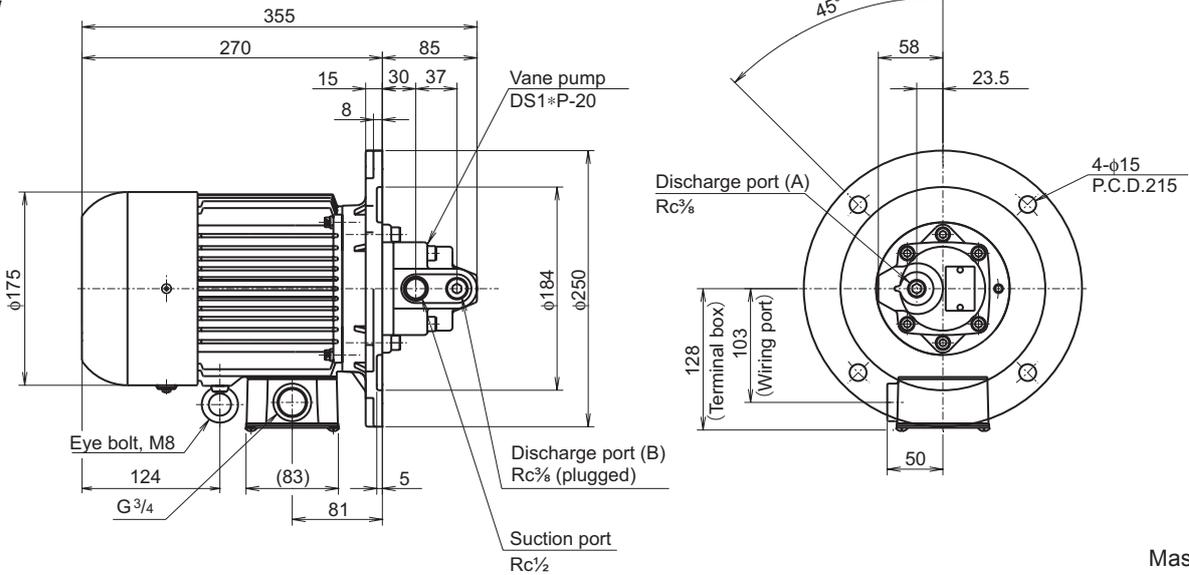
**External dimension diagram**

**MD×1-60**  
0.75 kW



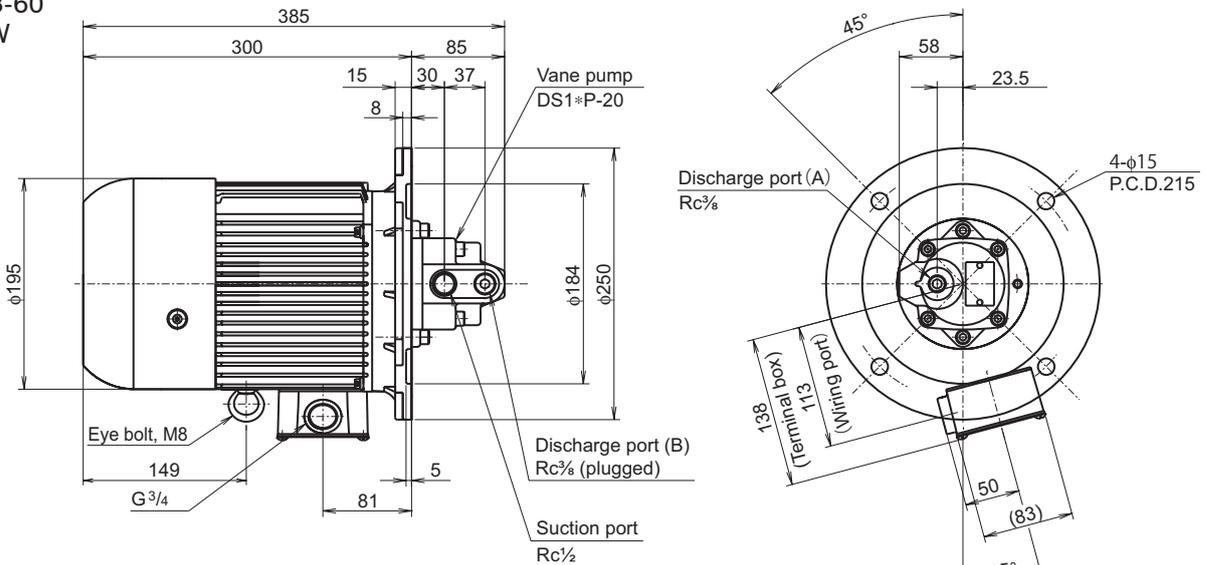
Mass: 20 kg

**MD×2-60**  
1.5 kW



Mass: 24 kg

**MD×3-60**  
2.2 kW



Mass: 30 kg