

# FC-280PA/SA

**MABUCHI MOTOR**

Carbon-brush motors

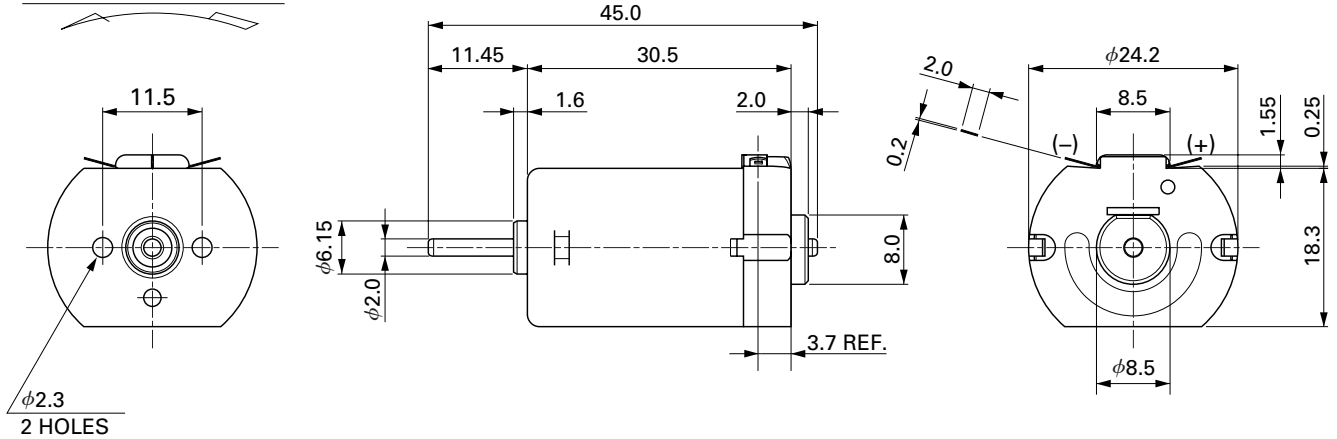
**OUTPUT : 0.4W~22W (APPROX)**

**WEIGHT : 35g (APPROX)**

**Typical Applications** Automotive Products : Door Lock Actuator  
Home Appliances

| MODEL          | VOLTAGE         |               | NO LOAD |         | AT MAXIMUM EFFICIENCY |         |        |      | STALL  |        |      |         |
|----------------|-----------------|---------------|---------|---------|-----------------------|---------|--------|------|--------|--------|------|---------|
|                | OPERATING RANGE | NOMINAL       | SPEED   | CURRENT | SPEED                 | CURRENT | TORQUE |      | OUTPUT | TORQUE |      | CURRENT |
|                |                 |               | r/min   | A       | r/min                 | A       | mN-m   | g-cm | W      | mN-m   | g-cm | A       |
| FC-280PA-20150 | 9~15            | 12V CONSTANT  | 12000   | 0.10    | 10360                 | 0.63    | 4.22   | 43.0 | 4.57   | 30.9   | 315  | 4.00    |
| FC-280PA-18165 | 9~15            | 12V CONSTANT  | 11000   | 0.10    | 9330                  | 0.56    | 4.24   | 43.2 | 4.13   | 27.9   | 284  | 3.12    |
| FC-280SA-18165 | 10~15           | 12V CONSTANT  | 12400   | 0.090   | 10660                 | 0.55    | 3.57   | 36.4 | 3.98   | 25.5   | 260  | 3.40    |
| FC-280SA-16200 | 10~15           | 12V CONSTANT  | 10000   | 0.070   | 8470                  | 0.39    | 3.30   | 33.7 | 2.92   | 21.6   | 220  | 2.15    |
| FC-280SA-4523  | 1~2             | 1.2V CONSTANT | 8700    | 0.58    | 7100                  | 2.58    | 2.42   | 24.7 | 1.80   | 13.2   | 135  | 11.5    |

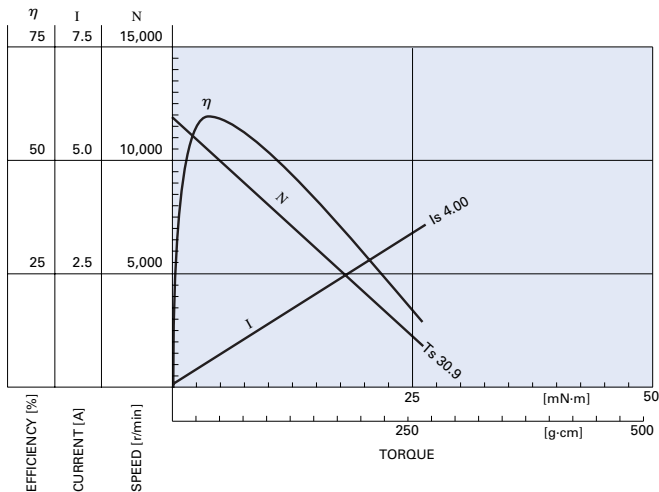
## DIRECTION OF ROTATION



UNIT: MILLIMETERS

## FC-280PA-20150

12.0V



## FC-280SA-18165

12.0V

