

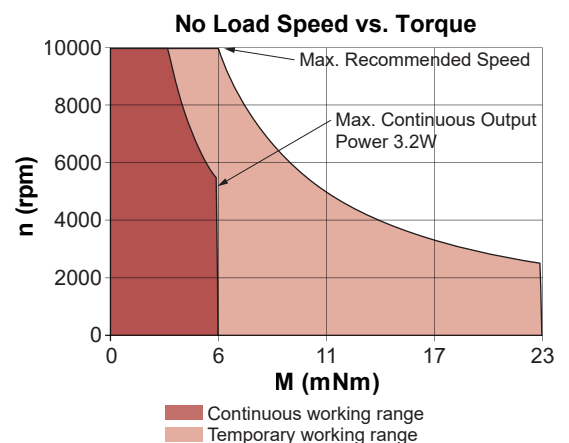
Dimensions in mm.

| Electrical Data | Symbol | 17N78 1 | | | | Unit |
|-----------------------------|--------------|--------------|------------|------------|-------------|----------------------|
| | | 216E | 210E | 208E | 207E | |
| 1 Nominal Voltage | V | 6 | 12 | 18 | 24 | Volt |
| 2 No-Load Speed | n_0 | 8,480 | 8,460 | 8,460 | 8,900 | rpm |
| 3 No-Load Current | I_0 | 16.0 | 7.7 | 4.9 | 3.5 | mA |
| 4 Terminal Resistance | R | 3.2 | 17.3 | 38.4 | 65.0 | Ω |
| 5 Output Power | P_{2max} | 3.6 | 3.1 | 3.2 | 3.1 | W |
| 6 Stall Torque | mNm | 12.5 (1.78) | 9.3 (1.32) | 9.4 (1.34) | 9.4 (1.34) | mNm (oz-in) |
| 7 Efficiency | η_{max} | 82 | 80 | 81 | 81 | % |
| 8 Max Continuous Speed | $n_{e max}$ | 10,000 | 10,000 | 10,000 | 10,000 | rpm |
| 9 Max Continuous Torque | $M_{e max}$ | 5.7 (0.81) | 4.8 (0.68) | 4.9 (0.7) | 4.8 (0.68) | mNm (oz-in) |
| 10 Max Continuous Current | $I_{e max}$ | 0.86 | 0.37 | 0.25 | 0.19 | A |
| 11 Back-EMF Constant | k_E | 0.70 | 1.40 | 2.10 | 2.67 | mV/rpm |
| 12 Torque Constant | k_M | 6.70 | 13.40 | 20.10 | 25.50 | mNm/A |
| 13 Motor Regulation | R/k^2 | 71.3 | 96.3 | 95.05 | 99.96 | 10 ³ /Nms |
| 14 Friction Torque | T_F | 0.1 (0.02) | 0.1 (0.02) | 0.1 (0.02) | 0.09 (0.02) | mNm (oz-in) |
| 15 Rotor Inductance | L | 0.11 | 0.40 | 0.90 | 1.41 | mH |
| 16 Mechanical Time Constant | τ_m | 7.8 | 7.7 | 7.2 | 7.2 | ms |
| 17 Rotor Inertia | J | 1.10 | 0.80 | 0.76 | 0.72 | g-cm ² |

| General Data | | | | |
|---|-------------------|--------------------------------|--|---------------|
| 18 Thermal Resistance (rotor/body) | R_{th1}/R_{th2} | 10/30 | | °C/W |
| 19 Thermal Time Constant (rotor/stator) | t_{W1}/t_{W2} | 7/400 | | S |
| 20 Operating Temperature Range: | motor | -30°C to 85°C (-22°F to 185°F) | | °C (°F) |
| | rotor | | | 100°C (212°F) |
| 21 Shaft Load Max.: (5 mm. from bearing) | -radial -axial | With sleeve bearings | | |
| | | 1.5 (5.4) | | N (oz) |
| | | 100 (359.6) | | N (oz) |
| 22 Shaft Play: | -radial | <0.03 (0.0012) | | mm (inch) |
| | -axial | 0.15 (0.0059) | | mm (inch) |
| 23 Weight | g | 27 (0.96) | | g (oz) |
| 24 Commutation Segment | - | 9 | | segment |

Execution Table

| Gearbox | Single Shaft | F16 | MR2 |
|---------|--------------|-----|--------------|
| B16 | 5 | 5 | Upon Request |
| BA16 | 5 | 5 | Upon Request |
| R16 | 1 | 1 | Upon Request |



► Motor shaft rotates CW when seen from motor front face when +ve and -ve supply is given to respective terminals.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [portescap](#) manufacturer:

Other Similar products are found below :

[12G88-213E.1001](#) [22S28-205E.1](#) [16N1R78214E1005](#) [16G88-208E.1](#) [08G61-105.1](#) [22S28-208E.1](#) [16N78-210E.1001](#) [35NT2R32-416SP.1](#)
[17N78213E1](#) [17N78-208E.1](#) [17S78-208P.1](#) [22S28-210P.1](#) [17N1R78213E1](#) [17S78-209E.1](#) [22N78313P1001](#) [13N88-110.1](#) [12G88-215E.1001](#)
[16N78-212E.1001](#) [35GLT2R82-326P.1](#) [16G88-211E.1](#) [22N78-311P.1001](#) [22N78-319P.1001](#) [16N78-212P.1001](#) [16N28-207E.201](#) [16G88-](#)
[220P.1](#) [16N78214E1001](#) [22V28-213E.201](#) [30GT2R82-234E.4](#) [16N28-210E.1](#) [13N88-213E.1](#) [16N78-208E.1001](#) [16N78-135.1001](#) [22N28-](#)
[213E.286](#) [16N28-208E.202](#) [22N28-210E.286](#) [16G88-213E.1](#) [08GS61-105C.1](#) [13N88-216E.1](#)