

#### PRODUCT DATA SHEET

# Omni<sup>™</sup> Series Motors

Low-Profile Direct Drive Motors for the World's Machines and Robots

The Omni Series enables OEMs to design high performance, reliable, small and lightweight systems using flexible and easy-to-integrate rotary motor components.

> CELERAMOTION.COM



Low-Profile Direct Drive Motors for the World's Machines and Robots





### Compact and Powerful

Designed for easy integration into OEM assemblies, the Omni Series is offered in a wide range of low-profile form factors with a large through hole for convenient routing of cables, optics, and other system elements. Frameless direct drive kit construction enables easy integration into machinery, robot joints, rotary stages and actuators.

Built using state-of-the art magnetic designs, the Omni Series delivers high torque density, low cogging and low stator and rotor mass in a thermally efficient package. Direct drive technology provides high speeds and accelerations with good mechanical stiffness and zero backlash, reducing settling times and increasing system performance and throughput.

Three models of the Omni Series motors are available: ULT for low-mid range torque requirements; UTH for high torque requirements; and UTO for applications that require an outside rotating configuration. All models are compatible with a wide range of controllers and drives. Windings and form factors can be customized to meet application requirements.

#### Benefits

- High torque density in low-profile form factors enables small footprint
- Large through hole for convenient routing of cables, optics, plumbing and other system elements
- High mechanical stiffness and low rotor inertia for efficient control of highly dynamic axes
- Low cogging for accurate and smooth motion
- Easy integration into system design
- Compatible with wide range of drives and controllers
- Custom windings and form factors available to meet application requirements

| Specifications     | Units | ULT Models               | UTH Models                | UTO Models            |
|--------------------|-------|--------------------------|---------------------------|-----------------------|
| Continuous Torque: | Nm    | 0.04 to 6.58             | 0.53 to 4.56              | 0.01 to 0.35          |
| Peak Torque:       | Nm    | 0.12 to 19.74            | 1.61 to 13.70             | 0.04 to 1.05          |
| Diameter:          | mm    | 25 to 165 (Stator OD)    | 63 to 127 (Stator OD)     | 20 to 52 (Rotor OD)   |
| Through Hole:      | mm    | 11.6 to 109.2 (Rotor ID) | 12.68 to 53.34 (Rotor ID) | 9 to 17.8 (Stator ID) |

Product groups listed and corresponding data are provided as a reference. Actual motor attributes are model and configuration specific. Peak torque output is based on a 3:1 peak to continuous current ratio, and is based on limited duty cycle. Contact Celera Motion for torque-speed specifications. Specifications subject to change.





**Applimotion** *Motors & Actuators* 

## Low-Profile Direct Drive Motors for the World's Machines and Robots

### **Omni UTH High Performance Motors**

| SIZE                              |                         | UTH                 | l-63                | UTH-100              |                      |  |
|-----------------------------------|-------------------------|---------------------|---------------------|----------------------|----------------------|--|
| MODEL NUMBER                      |                         | UTH-63-B-24-A-H-000 | UTH-63-B-24-A-N-000 | UTH-100-A-25-E-H-000 | UTH-100-A-25-E-N-000 |  |
| PERFORMANCE SPECIFICATION         | ONS                     |                     |                     |                      |                      |  |
| Continuous Torque*                | Nm                      | 0.53                | 0.53                | 1.70                 | 1.70                 |  |
|                                   | oz-in                   | 76                  | 76                  | 241                  | 241                  |  |
| Peak Torque                       | Nm                      | 1.61                | 1.61                | 5.11                 | 5.11                 |  |
|                                   | oz-in                   | 228                 | 228                 | 723                  | 723                  |  |
| ELECTRICAL SPECIFICATIONS         | S                       |                     |                     |                      |                      |  |
| Continuous Current*               | A <sub>DC</sub>         | 4.1                 | 4.1                 | 18.8                 | 18.8                 |  |
| Resistance phase-phase            | Ohm                     | 1.82                | 1.82                | 0.17                 | 0.17                 |  |
| Inductance <sub>phase-phase</sub> | mH                      | 4.50                | 4.50                | 0.19                 | 0.19                 |  |
| Ke <sub>phase-phase</sub>         | V <sub>peak</sub> /krpm | 13.9                | 13.9                | 9.5                  | 9.5                  |  |
| Kt <sub>TRAP</sub>                | Nm/A <sub>DC</sub>      | 0.133               | 0.133               | 0.091                | 0.091                |  |
| Kt <sub>SINE</sub>                | Nm/A <sub>peak</sub>    | 0.115               | 0.115               | 0.079                | 0.079                |  |
| Km                                | Nm/√W                   | 0.098               | 0.098               | 0.220                | 0.220                |  |
| THERMAL SPECIFICATIONS            |                         |                     |                     |                      |                      |  |
| Thermal Resistance                | °C/W                    | 3.0                 | 3.0                 | 1.5                  | 1.5                  |  |
| MECHANICAL SPECIFICATIO           | NS                      |                     |                     |                      |                      |  |
| Stator OD                         | mm                      | 63.50               | 63.50               | 101.60               | 101.60               |  |
| Stator ID                         | mm                      | 29.16               | 29.16               | 65.02                | 65.02                |  |
| Rotor OD                          | mm                      | 28.14               | 28.14               | 62.99                | 62.99                |  |
| Rotor ID                          | mm                      | 12.68               | 12.68               | 43.18                | 43.18                |  |
| Stator Length                     | mm                      | 26.42               | 25.40               | 26.92                | 24.38                |  |
| End Turn, Lead Side               | mm                      | 7.37                | 6.35                | 7.11                 | 4.57                 |  |
| Stack Height                      | mm                      | 12.70               | 12.70               | 15.24                | 15.24                |  |
| End Turn, Non-Lead Side           | mm                      | 6.35                | 6.35                | 4.57                 | 4.57                 |  |
| Rotor Length                      | mm                      | 15.27               | 15.27               | 17.78                | 17.78                |  |
| Weight - Total**                  | kg                      | 0.274               | 0.274               | 0.714                | 0.714                |  |
| Stator Weight                     | kg                      | 0.213               | 0.213               | 0.474                | 0.474                |  |
| Rotor Weight                      | kg                      | 0.061               | 0.061               | 0.240                | 0.240                |  |
| Pole Count                        | #                       | 8                   | 8                   | 12                   | 12                   |  |
| Rotor Inertia                     | lb-in-sec²              | 6.32E-05            | 6.32E-05            | 1.50E-03             | 1.50E-03             |  |
|                                   | kg-m²                   | 7.14E-06            | 7.14E-06            | 1.70E-04             | 1.70E-04             |  |
| Halls                             |                         | Yes                 | No                  | Yes                  | No                   |  |

Consult a Celera Motion applications engineer before using bus voltage levels beyond 50 V<sub>DC</sub> or operating at speeds greater than 4000 RPM. All data measured at 40° C ambient. \*At continuous current, assuming a 90° C temperature rise. \*\*Weights are estimated as motor leads can become significant to total weight. Contact Celera Motion for torque-speed specifications. Specifications subject to change.



**Applimotion** *Motors & Actuators* 

## Low-Profile Direct Drive Motors for the World's Machines and Robots

### **Omni UTH High Performance Motors**

| SIZE                              |                         | UTH-127              |                      |  |  |  |
|-----------------------------------|-------------------------|----------------------|----------------------|--|--|--|
| MODEL NUMBER                      |                         | UTH-127-A-30-A-H-000 | UTH-127-A-30-A-N-000 |  |  |  |
| PERFORMANCE SPECIFICAT            | IONS                    |                      |                      |  |  |  |
| Continuous Torque*                | Nm                      | 4.56                 | 4.56                 |  |  |  |
|                                   | oz-in                   | 647                  | 647                  |  |  |  |
| Peak Torque                       | Nm                      | 13.70                | 13.70                |  |  |  |
|                                   | oz-in                   | 1941                 | 1941                 |  |  |  |
| ELECTRICAL SPECIFICATION          | NS                      |                      |                      |  |  |  |
| Continuous Current*               | A <sub>DC</sub>         | 5.70                 | 5.70                 |  |  |  |
| Resistance <sub>phase-phase</sub> | Ohm                     | 3.13                 | 3.13                 |  |  |  |
| Inductance <sub>phase-phase</sub> | mH                      | 9.30                 | 9.30                 |  |  |  |
| Ke <sub>phase-phase</sub>         | V <sub>peak</sub> /krpm | 84.60                | 84.60                |  |  |  |
| Kt <sub>TRAP</sub>                | Nm/A <sub>DC</sub>      | 0.808                | 0.808                |  |  |  |
| Kt <sub>sine</sub>                | Nm/A <sub>peak</sub>    | 0.699                | 0.699                |  |  |  |
| Km                                | Nm/√W                   | 0.457                | 0.457                |  |  |  |
| THERMAL SPECIFICATIONS            |                         |                      |                      |  |  |  |
| Thermal Resistance                | °C/W                    | 0.9                  | 0.9                  |  |  |  |
| MECHANICAL SPECIFICATION          | ONS                     |                      |                      |  |  |  |
| Stator OD                         | mm                      | 127.00               | 127.00               |  |  |  |
| Stator ID                         | mm                      | 76.45                | 76.45                |  |  |  |
| Rotor OD                          | mm                      | 74.96                | 74.96                |  |  |  |
| Rotor ID                          | mm                      | 53.34                | 53.34                |  |  |  |
| Stator Length                     | mm                      | 32.64                | 27.94                |  |  |  |
| End Turn, Lead Side               | mm                      | 11.05                | 6.35                 |  |  |  |
| Stack Height                      | mm                      | 16.51                | 16.51                |  |  |  |
| End Turn, Non-Lead Side           | e mm                    | 5.08                 | 5.08                 |  |  |  |
| Rotor Length                      | mm                      | 20.57                | 20.57                |  |  |  |
| Weight - Total**                  | kg                      | 1.262                | 1.262                |  |  |  |
| Stator Weight                     | kg                      | 0.895                | 0.895                |  |  |  |
| Rotor Weight                      | kg                      | 0.367                | 0.367                |  |  |  |
| Pole Count                        | #                       | 12                   | 12                   |  |  |  |
| Rotor Inertia                     | lb-in-sec <sup>2</sup>  | 3.32E-03             | 3.32E-03             |  |  |  |
|                                   | kg-m²                   | 3.76E-04             | 3.76E-04             |  |  |  |
|                                   |                         |                      |                      |  |  |  |

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### Low-Profile Direct Drive Motors for the World's Machines and Robots

#### **Omni ULT Ultra Thin Motors**

| SIZE                              |                         | ULT-25                  | ULT                     | -45                     |                        | ULT                    | Г-63                    |                         |
|-----------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|------------------------|------------------------|-------------------------|-------------------------|
| MODEL NUMBER                      |                         | ULT-25-A-10-<br>A-N-000 | ULT-45-A-<br>34-A-H-000 | ULT-45-A-<br>34-A-N-000 | ULT-63-A-8-<br>A-H-000 | ULT-63-A-8-<br>A-N-000 | ULT-63-B-18-<br>B-H-000 | ULT-63-B-18-<br>B-N-000 |
| PERFORMANCE SPECIFICATION         | ONS                     |                         |                         |                         |                        |                        |                         |                         |
| Continuous Torque*                | Nm                      | 0.04                    | 0.12                    | 0.12                    | 0.09                   | 0.09                   | 0.20                    | 0.20                    |
|                                   | oz-in                   | 6                       | 17                      | 17                      | 13                     | 13                     | 29                      | 29                      |
| Peak Torque                       | Nm                      | 0.12                    | 0.36                    | 0.36                    | 0.27                   | 0.27                   | 0.61                    | 0.61                    |
|                                   | oz-in                   | 18                      | 51                      | 51                      | 39                     | 39                     | 87                      | 87                      |
| ELECTRICAL SPECIFICATIONS         | S                       |                         |                         |                         |                        |                        |                         |                         |
| Continuous Current*               | A <sub>DC</sub>         | 1.4                     | 2.7                     | 2.7                     | 5.6                    | 5.6                    | 2.0                     | 2.0                     |
| Resistance <sub>phase-phase</sub> | Ohm                     | 6                       | 2.7                     | 2.7                     | 0.96                   | 0.96                   | 7.5                     | 7.5                     |
| Inductance <sub>phase-phase</sub> | mH                      | 1.44                    | 0.43                    | 0.43                    | 0.10                   | 0.10                   | 1.20                    | 1.20                    |
| Ke <sub>phase-phase</sub>         | V <sub>peak</sub> /krpm | 3                       | 4.6                     | 4.6                     | 1.7                    | 1.7                    | 10.7                    | 10.7                    |
| Kt <sub>TRAP</sub>                | Nm/A <sub>DC</sub>      | 0.028                   | 0.044                   | 0.044                   | 0.016                  | 0.016                  | 0.102                   | 0.102                   |
| Kt <sub>sine</sub>                | Nm/A <sub>peak</sub>    | 0.024                   | 0.038                   | 0.038                   | 0.014                  | 0.014                  | 0.089                   | 0.089                   |
| Km                                | Nm/√W                   | 0.012                   | 0.027                   | 0.027                   | 0.017                  | 0.017                  | 0.037                   | 0.037                   |
| THERMAL SPECIFICATIONS            |                         |                         |                         |                         |                        |                        |                         |                         |
| Thermal Resistance                | °C/W                    | 6.0                     | 4.5                     | 4.5                     | 3.0                    | 3.0                    | 3.0                     | 3.0                     |
| MECHANICAL SPECIFICATIO           | NS                      |                         |                         |                         |                        |                        |                         |                         |
| Stator OD                         | mm                      | 25                      | 43.18                   | 43.18                   | 63.50                  | 63.50                  | 63.50                   | 63.50                   |
| Stator ID                         | mm                      | 15.66                   | 33.53                   | 33.53                   | 49.53                  | 49.53                  | 49.53                   | 49.53                   |
| Rotor OD                          | mm                      | 15.17                   | 32.00                   | 32.00                   | 48.39                  | 48.39                  | 48.39                   | 48.39                   |
| Rotor ID                          | mm                      | 11.6                    | 25.40                   | 25.40                   | 38.10                  | 38.10                  | 38.10                   | 38.10                   |
| Stator Length                     | mm                      | 9.24                    | 37.47                   | 34.30                   | 13.21                  | 8.26                   | 22.74                   | 18.24                   |
| End Turn, Lead Side               | mm                      | 2.22                    | 6.35                    | 3.18                    | 6.73                   | 1.91                   | 6.99                    | 2.49                    |
| Stack Height                      | mm                      | 4.8                     | 27.94                   | 27.94                   | 4.57                   | 4.57                   | 13.72                   | 13.72                   |
| End Turn, Non-Lead Side           | mm                      | 2.22                    | 3.18                    | 3.18                    | 1.91                   | 1.78                   | 2.03                    | 2.03                    |
| Rotor Length                      | mm                      | 5.18                    | 32.51                   | 32.51                   | 5.08                   | 5.08                   | 14.73                   | 14.73                   |
| Weight - Total**                  | kg                      | 0.014                   | 0.162                   | 0.162                   | 0.060                  | 0.060                  | 0.172                   | 0.172                   |
| Stator Weight                     | kg                      | 0.011                   | 0.083                   | 0.083                   | 0.031                  | 0.031                  | 0.087                   | 0.087                   |
| Rotor Weight                      | kg                      | 0.0026                  | 0.079                   | 0.079                   | 0.029                  | 0.029                  | 0.085                   | 0.085                   |
| Pole Count                        | #                       | 14                      | 12                      | 12                      | 12                     | 12                     | 12                      | 12                      |
| Rotor Inertia                     | lb-in-sec²              | 1.24E-06                | 1.42E-04                | 1.42E-04                | 1.18E-04               | 1.18E-04               | 3.42E-04                | 3.42E-04                |
|                                   | kg-m²                   | 1.40E-07                | 1.60E-05                | 1.60E-05                | 1.33E-05               | 1.33E-05               | 3.87E-05                | 3.87E-05                |
| Halls                             |                         | No                      | Yes                     | No                      | Yes                    | No                     | Yes                     | No                      |

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## Low-Profile Direct Drive Motors for the World's Machines and Robots

#### **Omni ULT Ultra Thin Motors**

| SIZE   |                            | ULT-165   |  |  |  |
|--|----------------------------|---|--|--|--|
| MODEL NUMBER   |                            | ULT-165-A-38-A-H-000                                      | ULT-165-A-38-A-N-000   |  |  |
| PERFORMANCE SPECIFICATI  | ONS                        |   |  |  |  |
| Continuous Torque*   | Nm                         | 6.581   | 6.581  |  |  |
|  | oz-in                      | 932   | 932  |  |  |
| Peak Torque  | Nm                         | 19.744  | 19.744   |  |  |
|  | oz-in                      | 2796  | 2796   |  |  |
| ELECTRICAL SPECIFICATION   | S                          |   |  |  |  |
| Continuous Current*  | A <sub>DC</sub>            | 6.30  | 6.30   |  |  |
| Resistance <sub>phase-phase</sub>  | Ohm                        | 3.00  | 3.00   |  |  |
| Inductance <sub>phase-phase</sub>  | mH                         | 6.90  | 6.90   |  |  |
| Ke <sub>phase-phase</sub>  | V <sub>peak</sub> /krpm    | 109.0   | 109.0  |  |  |
| Kt <sub>TRAP</sub>   | Nm/A <sub>DC</sub>         | 1.040   | 1.040  |  |  |
| Kt <sub>SINE</sub>   | Nm/A <sub>peak</sub>       | 0.901   | 0.901  |  |  |
| Km   | Nm/√W                      | 0.601   | 0.601  |  |  |
| Thermal Resistance   | °C/W                       | 0.8   | 0.8  |  |  |
| I hermal Resistance  | °C/W                       | 0.8   | 0.8  |  |  |
| MECHANICAL SPECIFICATIO  | NS                         |   |  |  |  |
| Stator OD  | mm                         | 165.10  | 165.10   |  |  |
| Stator ID  | mm                         | 128.52  | 128.52   |  |  |
| Rotor OD   | mm                         | 127.00  | 127.00   |  |  |
| Rotor ID   | mm                         | 109.22  |  |  |  |
| Stator Length  |                            |   | 109.22   |  |  |
| End Turn, Lead Side  | mm                         | 37.80   | 109.22<br>37.80  |  |  |
|  | mm<br>mm                   | 37.80<br>4.65   |  |  |  |
| Stack Height   |                            |   | 37.80  |  |  |
| Stack Height<br>End Turn, Non-Lead Side  | mm<br>mm                   | 4.65  | 37.80<br>4.65  |  |  |
|  | mm<br>mm                   | 4.65<br>28.58   | 37.80<br>4.65<br>28.58   |  |  |
| End Turn, Non-Lead Side  | mm<br>mm                   | 4.65<br>28.58<br>4.57                                     | 37.80<br>4.65<br>28.58<br>4.57   |  |  |
| End Turn, Non-Lead Side<br>Rotor Length  | mm<br>mm<br>mm             | 4.65<br>28.58<br>4.57<br>29.69                            | 37.80<br>4.65<br>28.58<br>4.57<br>29.69                                  |  |  |
| End Turn, Non-Lead Side<br>Rotor Length<br>Weight - Total**                                  | mm<br>mm<br>mm<br>kg       | 4.65<br>28.58<br>4.57<br>29.69<br>2.080                   | 37.80<br>4.65<br>28.58<br>4.57<br>29.69<br>2.080                         |  |  |
| End Turn, Non-Lead Side<br>Rotor Length<br>Weight – Total**<br>Stator Weight                 | mm<br>mm<br>mm<br>mm<br>kg | 4.65<br>28.58<br>4.57<br>29.69<br>2.080<br>1.280          | 37.80<br>4.65<br>28.58<br>4.57<br>29.69<br>2.080<br>1.280                |  |  |
| End Turn, Non-Lead Side Rotor Length Weight - Total** Stator Weight Rotor Weight Pole Count  | mm mm mm kg kg kg          | 4.65<br>28.58<br>4.57<br>29.69<br>2.080<br>1.280<br>0.801 | 37.80<br>4.65<br>28.58<br>4.57<br>29.69<br>2.080<br>1.280<br>0.801<br>36 |  |  |
| End Turn, Non-Lead Side<br>Rotor Length<br>Weight - Total**<br>Stator Weight<br>Rotor Weight | mm mm mm kg kg kg kg       | 4.65<br>28.58<br>4.57<br>29.69<br>2.080<br>1.280<br>0.801 | 37.80<br>4.65<br>28.58<br>4.57<br>29.69<br>2.080<br>1.280<br>0.801       |  |  |

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### Low-Profile Direct Drive Motors for the World's Machines and Robots

### **Omni UTO Outside Running Motors**

| SIZE                              |                         | UTO-20             | UTO-52              |
|-----------------------------------|-------------------------|--------------------|---------------------|
| MODEL NUMBER                      |                         | UTO-20-A-8-A-N-000 | UTO-52-A-18-A-N-000 |
| PERFORMANCE SPECIFICATION         | ONS                     |                    |                     |
| Continuous Torque*                | Nm                      | 0.014              | 0.353               |
|                                   | oz-in                   | 2                  | 50                  |
| Peak Torque                       | Nm                      | 0.042              | 1.059               |
|                                   | oz-in                   | 6                  | 150                 |
| ELECTRICAL SPECIFICATIONS         | S                       |                    |                     |
| Continuous Current*               | A <sub>DC</sub>         | 2.10               | 6.90                |
| Resistance <sub>phase-phase</sub> | Ohm                     | 2.65               | 0.63                |
| Inductance <sub>phase-phase</sub> | mH                      | 0.26               | 0.40                |
| Ke <sub>phase-phase</sub>         | V <sub>peak</sub> /krpm | 0.6                | 5.4                 |
| Kt <sub>TRAP</sub>                | Nm/A <sub>DC</sub>      | 0.006              | 0.052               |
| Kt <sub>sine</sub>                | Nm/A <sub>peak</sub>    | 0.005              | 0.045               |
| Km                                | Nm/√W                   | 0.004              | 0.065               |
| THERMAL SPECIFICATIONS            |                         |                    |                     |
| Thermal Resistance                | °C/W                    | 8.0                | 3.0                 |
|                                   |                         |                    |                     |
| MECHANICAL SPECIFICATIO           | NS                      |                    |                     |
| Stator OD                         | mm                      | 15.79              | 40.89               |
| Stator ID                         | mm                      | 8.99               | 17.84               |
| Rotor OD                          | mm                      | 19.94              | 52.07               |
| Rotor ID                          | mm                      | 16.41              | 45.72               |
| Stator Length                     | mm                      | 7.80               | 17.53               |
| End Turn, Lead Side               | mm                      | 1.04               | 3.18                |
| Stack Height                      | mm                      | 5.72               | 11.43               |
| End Turn, Non-Lead Side           | mm                      | 1.04               | 2.92                |
| Rotor Length                      | mm                      | 6.60               | 13.46               |
| Weight - Total**                  | kg                      | 0.018              | 0.176               |
| Stator Weight                     | kg                      | 0.004              | 0.071               |
| Rotor Weight                      | kg                      | 0.014              | 0.105               |
| Pole Count                        | #                       | 12                 | 16                  |
| Rotor Inertia                     | lb-in-sec²              | 3.89E-06           | 2.76E-04            |
|                                   | kg-m²                   | 4.39E-07           | 3.12E-05            |
| Halls                             |                         | No                 | No                  |

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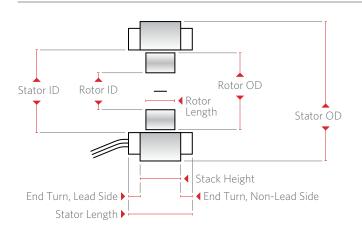
### Low-Profile Direct Drive Motors for the World's Machines and Robots

#### **How to Order**

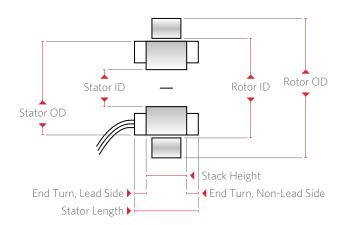
Motor

### UTH-100-A-25-A-N-000 (example) Mechanical Configuration 000 = Standard001 = No back iron Feedback Option N = NoneH = HallsWinding Option Factory code Axial Length mm Magnetic Attributes Factory code Diameter mm **Motor Series** UTH = High performance ULT = Ultra thin UTO = Outside rotating

#### Dimensional Interface — UTH, ULT Models



#### Dimensional Interface — UTO Models





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