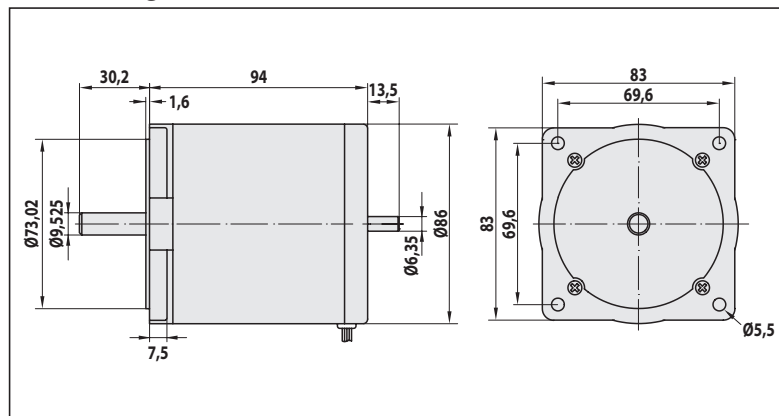
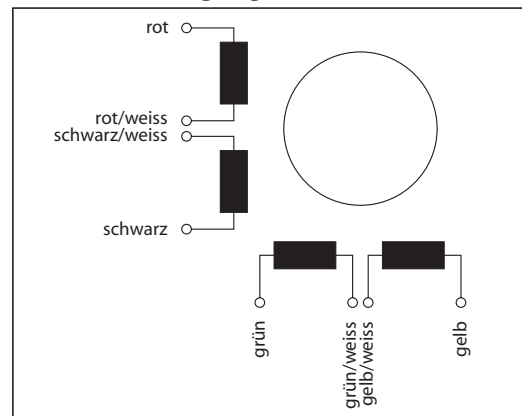
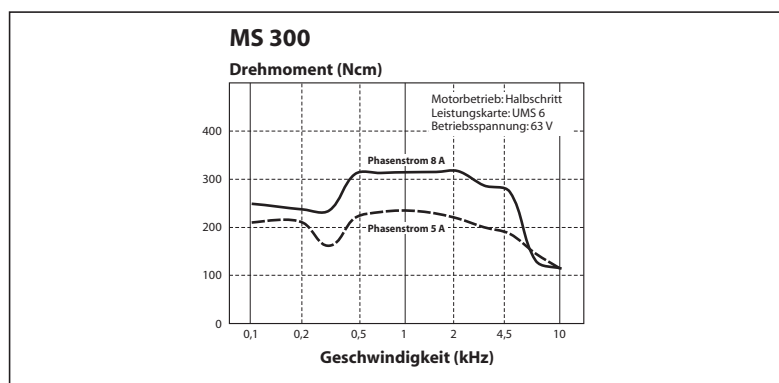


**Merkmale der isel-Hybrid-Zweiphasen-Schrittmotoren**

- Hybrid-Schrittmotoren mit hoher Energiedichte in verschiedenen Leistungsklassen
- unipolare und bipolare Betriebsart durch 8-Leiter-Anschluss
- Drehzahlsteuerung über Schrittfolgefrequenz im offenen Regelkreis
- kleiner Schritt winkelfehler, nicht kumulativ
- Drehwinkel der Motorwelle ist direkt proportional zur Anzahl der Eingangsimpulse
- zweites Wellenende für optionalen Anbau von Bremse und Encoder (Typ HEDS 55..., Fab.: HP)


**Abmessungen**

**Anschlussbelegung**

**Drehmomentkurven**

**Technische Daten**

| Bezeichnung   | Artikel-Nr.<br>mit 1 Wellen-<br>ende | Artikel-Nr.<br>mit 2 Wellen-<br>enden | Haltemoment<br>Unipolar / Bipolar<br>Nm | Wicklungs-<br>strom<br>je Phase<br>A | Spulen-<br>spannung<br>je Phase<br>V | Wicklungs-<br>widerstand<br>je Phase<br>$\Omega$ | Wicklungs-<br>induktivität<br>je Phase<br>mH | Rotor-<br>trägheit<br>kgcm <sup>2</sup> | Schritt-<br>winkel /<br>Winkel-<br>fehler<br>° / % | Anschluss-<br>leitungen | Gewicht<br>kg |
|---------------|--------------------------------------|---------------------------------------|-----------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------------------|----------------------------------------------|-----------------------------------------|----------------------------------------------------|-------------------------|---------------|
| <b>MS 300</b> | --                                   | 473061                                | 2,7 / 3,5                               | 6 / 8,5                              | 1,2                                  | 0,39                                             | 1,5                                          | 1,1                                     | 1,8 / 5                                            | 8                       | 2,6           |

|                                      |                  |
|--------------------------------------|------------------|
| <b>maximal zulässige Radiallast:</b> | 3,0 kg (10 mm)   |
| <b>ISO-Klasse:</b>                   | B (130°)         |
| <b>Schutzklasse:</b>                 | IP 40            |
| <b>Umgebungstemperatur:</b>          | -10 °C...+50 °C  |
| <b>Isolationswiderstand:</b>         | 100 M / 500 V DC |

Deutsch

English

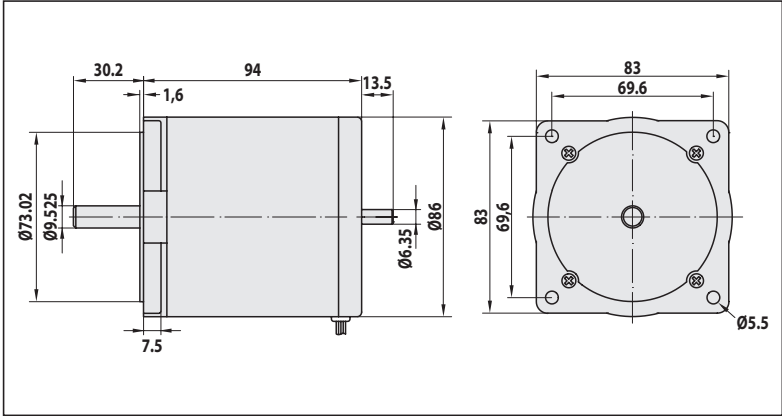


Features of the isel hybrid two-phase stepper motors

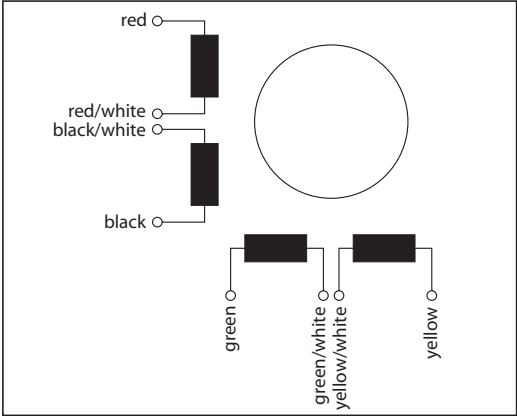
- Hybrid stepper motors with high energy density in various power classes
- Unipolar and bipolar modes thanks to 8-wire connection
- Speed control via step sequence frequency in the open control loop
- Small step angle error, non-cumulative
- Angle of rotation of motor shaft is directly proportional to the number of input pulses
- Second shaft end for optional attachment of brake and encoder und Encoder (Typ HEDS 55..., Fab.: HP)



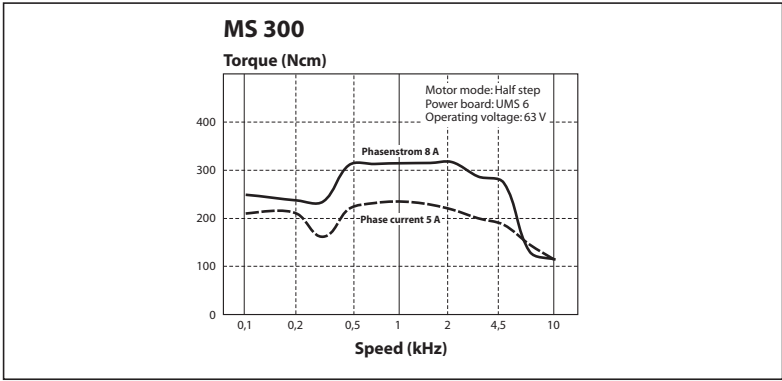
Dimensions



Connector pin assignment



Torque characteristics



Technical data

| Designation                                         | Article no.<br>with 1 shaft<br>end | Article no.<br>with 2 shaft<br>ends | Holding torque<br>unipolar / bipolar<br>Nm | Winding<br>current<br>per phase<br>A | Coil voltage<br>per phase<br>V | Winding<br>resistance<br>per phase<br>$\Omega$ | Winding<br>inductivity<br>per phase<br>mH | Rotor<br>inertia<br>kgcm <sup>2</sup> | Step angle /<br>step angle<br>error<br>° / % | Connection<br>cables | Weight<br>kg |
|-----------------------------------------------------|------------------------------------|-------------------------------------|--------------------------------------------|--------------------------------------|--------------------------------|------------------------------------------------|-------------------------------------------|---------------------------------------|----------------------------------------------|----------------------|--------------|
| MS 300                                              | --                                 | 473061                              | 2.7 / 3.5                                  | 6 / 8.5                              | 1.2                            | 0.39                                           | 1.5                                       | 1.1                                   | 1.8 / 5                                      | 8                    | 2.6          |
| <b>Max. permissible radial load:</b> 3.0 kg (10 mm) |                                    |                                     |                                            |                                      |                                |                                                |                                           |                                       |                                              |                      |              |
| <b>ISO class:</b> B (130°)                          |                                    |                                     |                                            |                                      |                                |                                                |                                           |                                       |                                              |                      |              |
| <b>Class of protection:</b> IP 40                   |                                    |                                     |                                            |                                      |                                |                                                |                                           |                                       |                                              |                      |              |
| <b>Ambient temperature:</b> -10 °C...+50 °C         |                                    |                                     |                                            |                                      |                                |                                                |                                           |                                       |                                              |                      |              |
| <b>Insulation resistance:</b> 100 M / 500 V DC      |                                    |                                     |                                            |                                      |                                |                                                |                                           |                                       |                                              |                      |              |