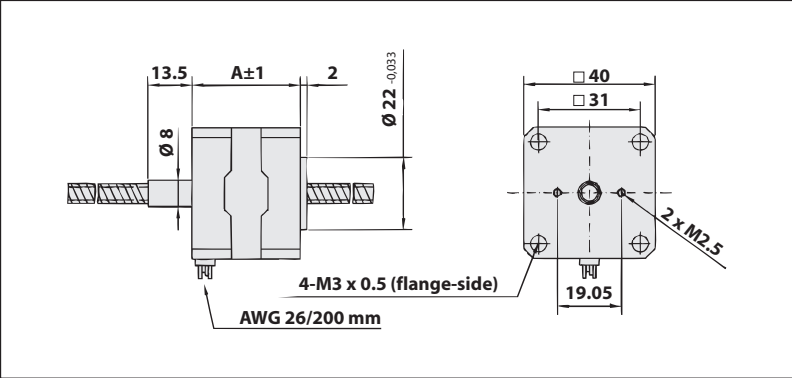
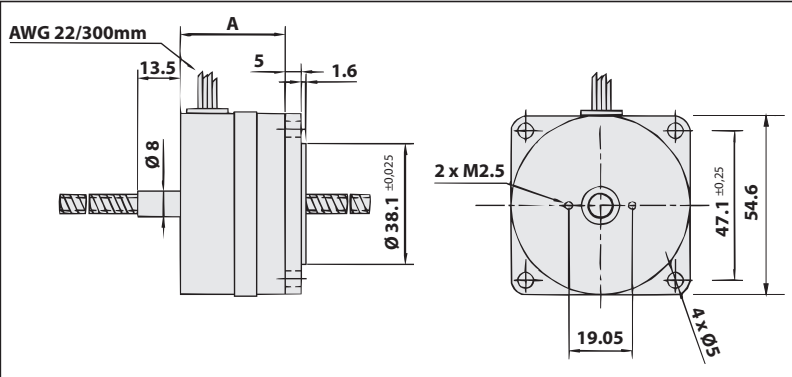


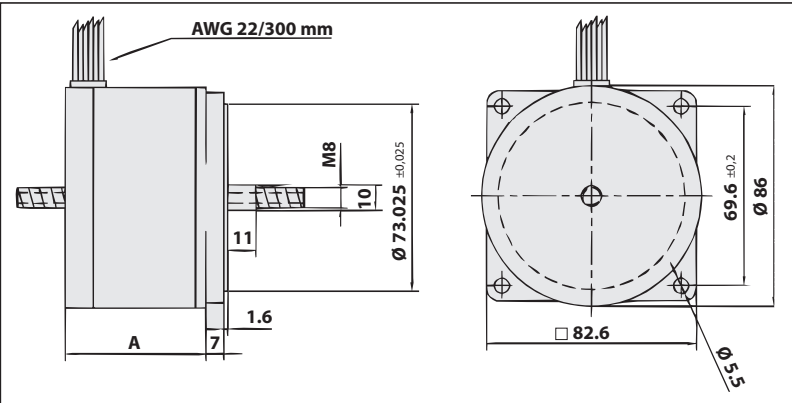
Dimensions MS 015 L



Dimensions MS 028 L

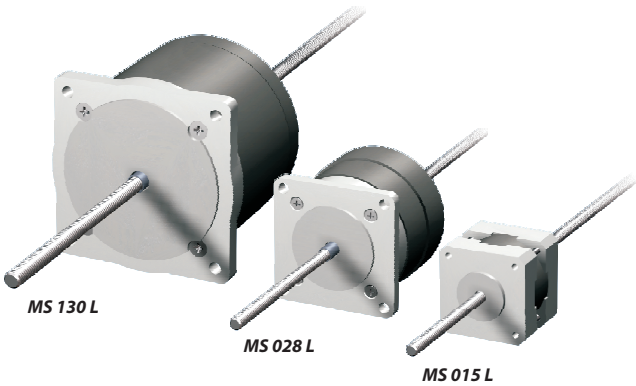


Dimensions MS 130 L

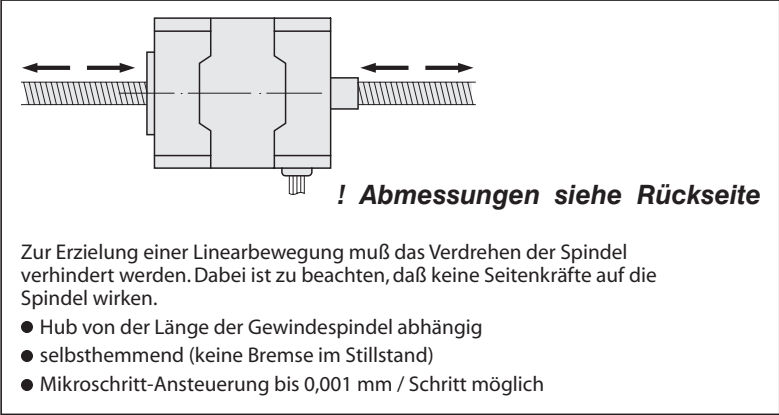


Merkmale der isel-Hybrid-Zweiphasen-Schrittmotoren

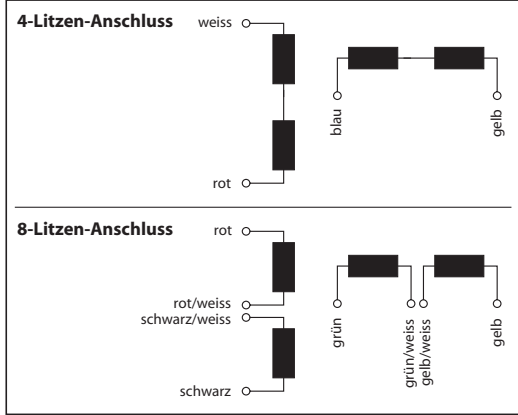
- Hybrid-Schrittmotoren mit hoher Energiedichte in drei verschiedenen Leistungsklassen
- Drehzahlsteuerung über Schrittfolgefrequenz im offenen Regelkreis
- kleiner Schrittwinkelfehler, nicht kumulativ
- Drehwinkel der Motorwelle ist direkt proportional zur Anzahl der Eingangsimpulse



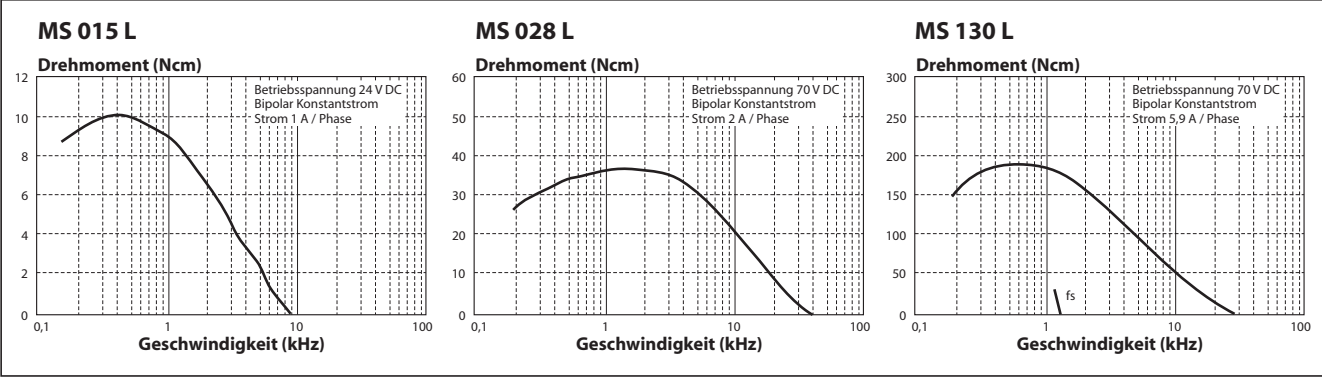
Funktion



Anschlussbelegung



Drehmomentkurven

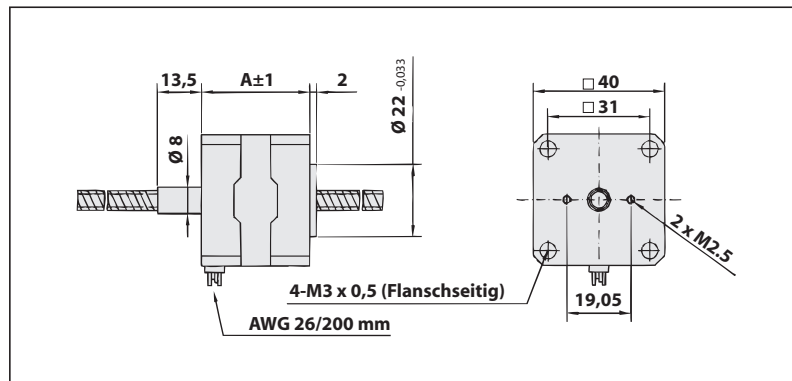
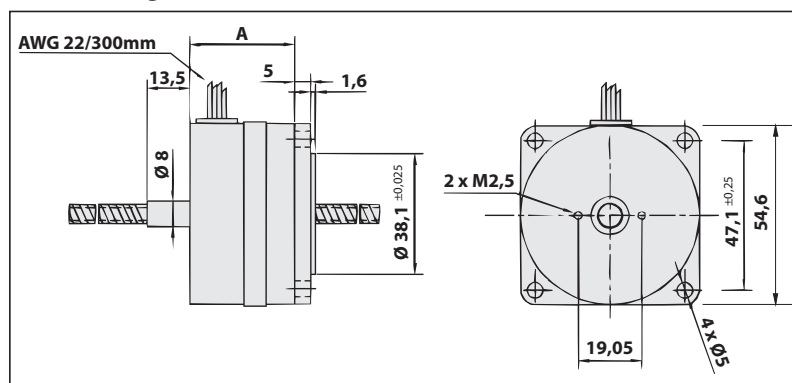
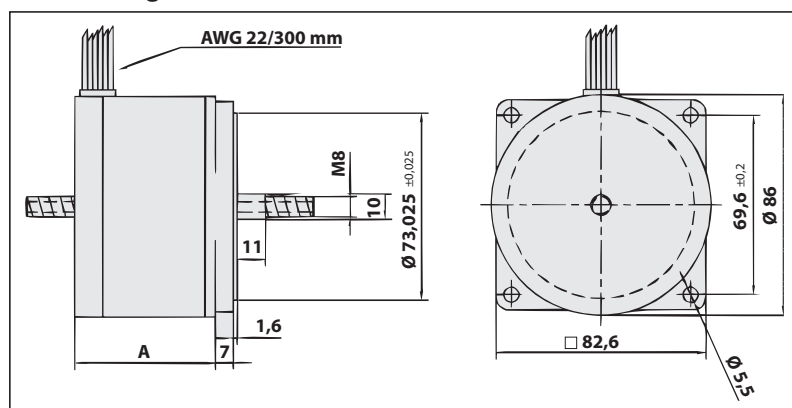


Technische Daten

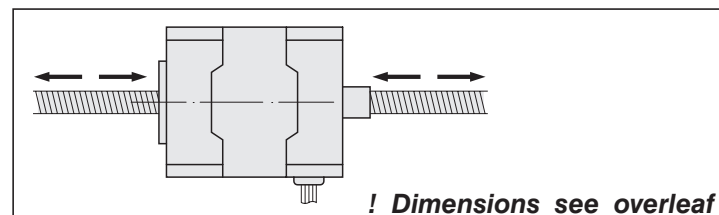
Bezeichnung	Artikel-Nr.	Schubkraft N	Auflösung mm/Schritt	Vorschub mm/s	Wicklungs- strom A	Wicklungs- widerstand Ω	Flanschmaß mm	Baulänge (A) mm	Innengewinde	Gewicht kg
MS 015 L	473341	50	0,005	30	1,2	2,8	40	33	M6 x 1	0,2
MS 028 L	473351	100	0,005	30	1,4	2,6	56,4	38,5	M6 x 1	0,35
MS 130 L	473381	200	0,00625	35	4,5	1,2	86	62	M8 x 1,25	1,4

maximal zulässige Radiallast: nicht zulässig
ISO-Klasse: B (130°)
Schutzklasse: IP 40
Umgebungstemperatur: -10 °C...+50 °C
Isolationswiderstand: 100 M / 500 V DC



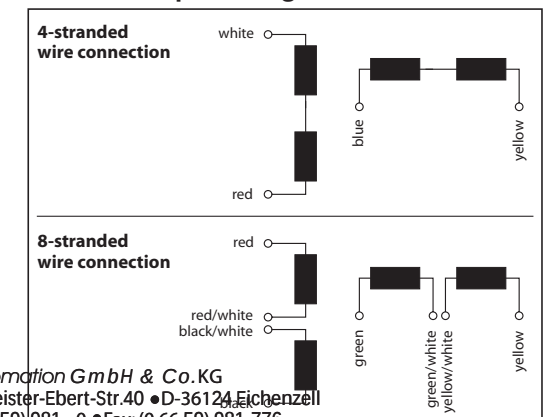
Abmessungen MS 015 L**Abmessungen MS 028 L****Abmessungen MS 130 L****Features of the isel hybrid two-phase stepper motors**

- Hybrid stepper motors with high energy density in three different power classes
- 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

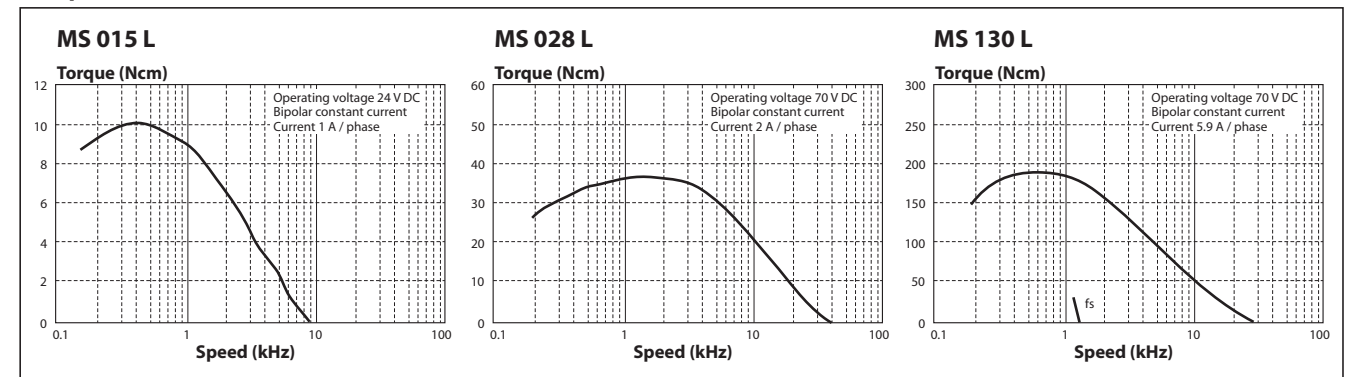
**Function**

To achieve a linear motion, twisting of the spindle must be prevented. In particular, make sure that no lateral forces act on the spindle.

- Stroke dependent on the length of the leadscrew
- Self-locking (no brake at standstill)
- Microstep control possible up to 0.001 mm / step

Connector pin assignment

isel automation GmbH & Co. KG
Bürgermeister-Ebert-Str.40 • D-36124 Eichenzell
Tel.: (0 66 59) 981 - 0 • Fax: (0 66 59) 981-776

Torque characteristics**Technical data**

Designation	Article no.	Thrust force N	Resolution mm/step	Feedrate mm/s	Winding current A	Winding resistance Ω	Flange dimension mm	Construction length (A) mm	Internal thread	Weight kg
MS 015 L	473341	50	0.005	30	1.2	2.8	40	33	M6 x 1	0.2
MS 028 L	473351	100	0.005	30	1.4	2.6	56.4	38.5	M6 x 1	0.35
MS 130 L	473381	200	0.00625	35	4.5	1.2	86	62	M8 x 1.25	1.4

Max. permissible radial load: not permissible

ISO class: B (130°)

Class of protection: IP 40

Ambient temperature: -10 °C...+50 °C

Insulation resistance: 100 M / 500 V DC