

## Small Geared Motor SE with DC Motor, Size 1

**Housing:** Aluminium, sealed against lubricant leaks and protected against dust, can be mounted in any position.

**Teeth:** Worm gear made from plastic, worm made from steel, ground. Not self-locking.

**Bearing:** Motor and gearbox with roller bearing.

**Lubrication:** Maintenance free grease lubrication.

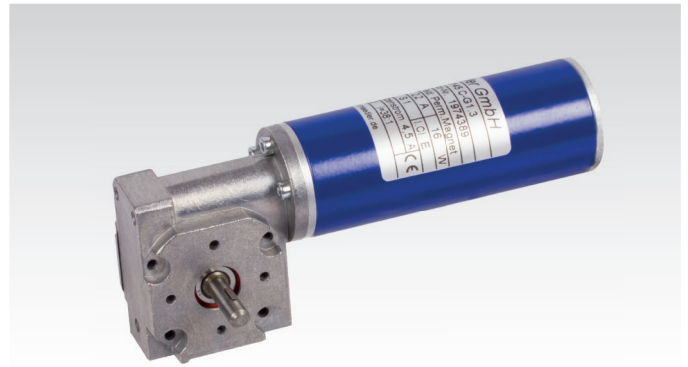
**Motor:** Brushed DC Motor 12 V or 24 V.

Nominal motor speed  $6,000 \text{ min}^{-1}$ , worm pinned on motor shaft. Free lead ends. Sense of rotation can be changed by swapping leads over.

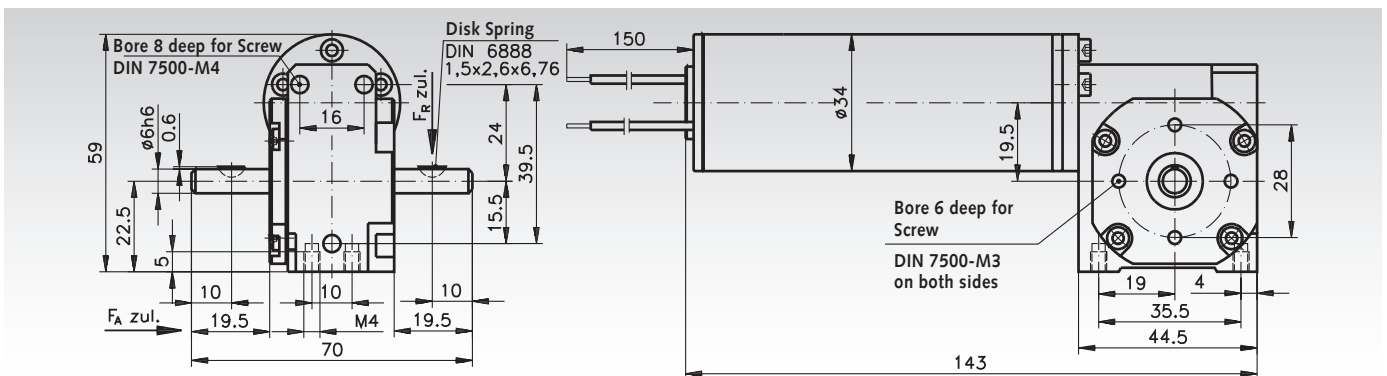
Protection class: IP 21

Insulation class: E

Operating mode: S1



Ordering Details: e.g.: Type, Size 1, Voltage, Output Speed, Product No.



### Size 1

Product No. 12 V	Product No. 24 V	Nominal Output Speed $\text{min}^{-1}$	Ratio $i$	max. continous Torque Nm	max. Starting Torque Nm	Nominal Motor Power W	Output Power W	Gearbox Efficiency %	Weight kg
430 410 12	430 410 24	822	7,3:1	0,15	0,83	16	13	79	0,52
430 411 12	430 411 24	522	11,5:1	0,23	1,3	16	12	77	0,52
430 412 12	430 412 24	400	15:1	0,28	1,7	16	12	73	0,52
430 413 12	430 413 24	261	23:1	0,41	2,0	16	11	70	0,52
430 414 12	430 414 24	200	30:1	0,55	2,0	16	11	66	0,52
430 415 12	430 415 24	158	38:1	0,63	1,2	16	10	65	0,52

Permissible radial shaft load  $F_R$ : 30 N (middle shaft).

Permissible axial shaft load  $F_A$ : 12 N.

Tolerances +/- 10%.

### Note

The efficiency stated in the table is valid for properly run-in gearboxes at operating temperature. To prevent the gearbox from being overloaded, the stated limit loads must not be exceeded. At reversed operation the limit loads must be multiplied with the factor 0.75.