

# DC-Motor drive 3143



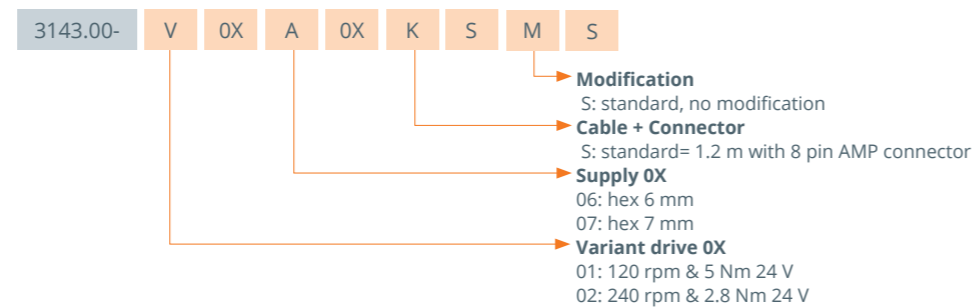
## Description

Powerful 24 V DC motor with worm gear and through going hexagon socket. Although the drive was developed for ergonomic table applications, it can be used in many other fields. A cable with AMP plug and an integrated Hall sensor allows easy and secure control of the entire system.

## Special features

- Two integrated Hall sensors for measurement of the revolutions and direction of rotation
- Through going hexagon socket in wrench widths 6 mm, 7 mm, 9 mm
- Available as "power package" or as "high speed" variant
- 1200 mm motor cable with connector included
- Good self-locking properties
- Can be combined with all Ketterer spindle systems

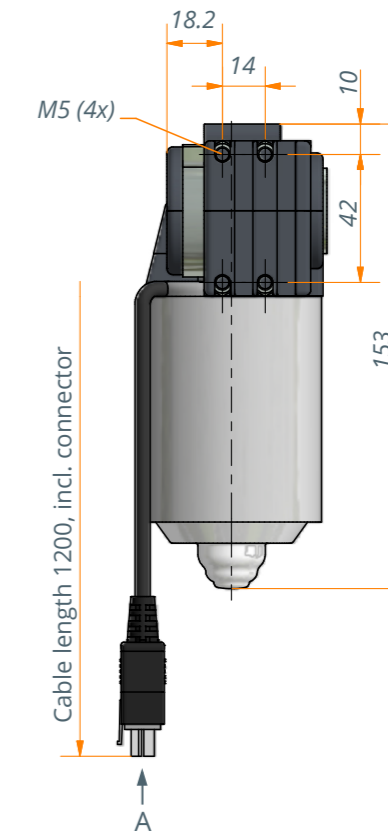
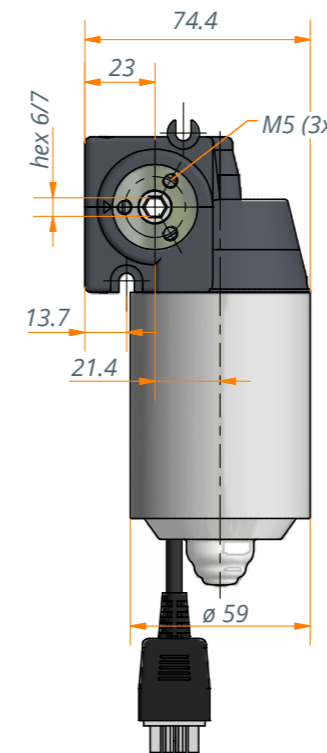
## Variant key



## Technical data

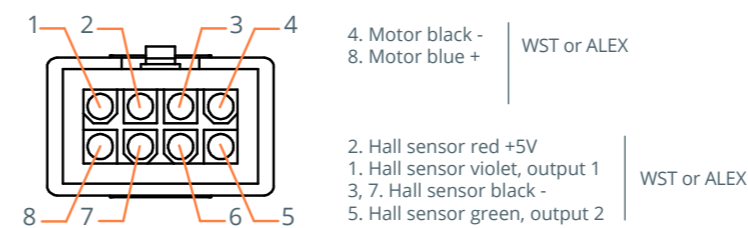
Model	3143.00-V01A06KSMS	3143.00-V01A07KSMS	3143.00-V02A06KSMS	3143.00-V02A07KSMS
<b>Motor</b>	DC motor 24 V	DC motor 24 V	DC motor 24 V	DC motor 24 V
<b>Sensor/Power supply</b>	Hall/5 V DC/0.3 A	Hall/5 V DC/0.3 A	Hall/5 V DC/0.3 A	Hall/5 V DC/0.3 A
<b>Electric current</b>	5.5 A at 5 Nm	5.5 A at 5 Nm	4.2 A at 2.8 N	4.2 A at 2.8 Nm
<b>Protection class</b>	IP30	IP30	IP30	IP30
<b>Idle running speed</b>	115 rpm (24 V) 120 rpm *	115 rpm (24 V) 120 rpm *	230 rpm (24 V) 240 rpm *	230 rpm (24 V) 240 rpm *
<b>Duty cycle idle speed</b>	20% (at 5 min.)	20% (at 5 min.)	20% (at 5 min.)	20% (at 5 min.)
<b>Rated torque*</b>	5 Nm	5 Nm	2.8 Nm	2.8 Nm
<b>Duty cycle nominal load**</b>	20 s ON 240 s OFF	20 s ON 240 s OFF	20 s ON 240 s OFF	20 s ON 240 s OFF
<b>Short term peak torque (&lt;1s)</b>	9 Nm	9 Nm	5 Nm	5 Nm
<b>Input</b>	hex 6 mm	hex 7 mm	hex 6 mm	hex 7 mm

\* In combination with LogicData control box Compact-3  
\*\* Load determined for service life of 10,000 double strokes



## Pin assignment

View A



## Technical notes

- The drive working range (nominal torque) is determined for a service life of 10,000 double strokes.
- Through the controller\* the system is regulated such that the speed in the entire drive working range is kept as constant as possible.
- By using a controller with a short-circuit brake the holding torque position of the drive can be increased.

\* In combination with LogicData control box Compact-3