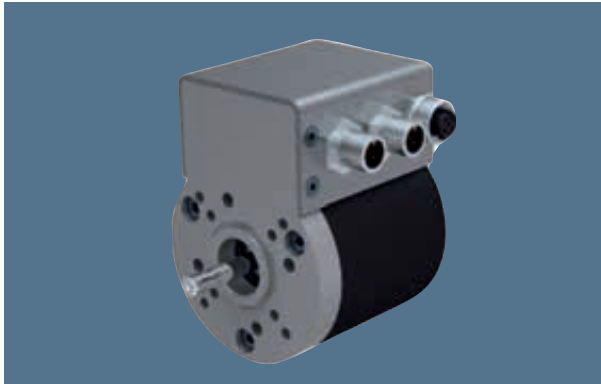


# VDC-3-49-15

with electronics module K5

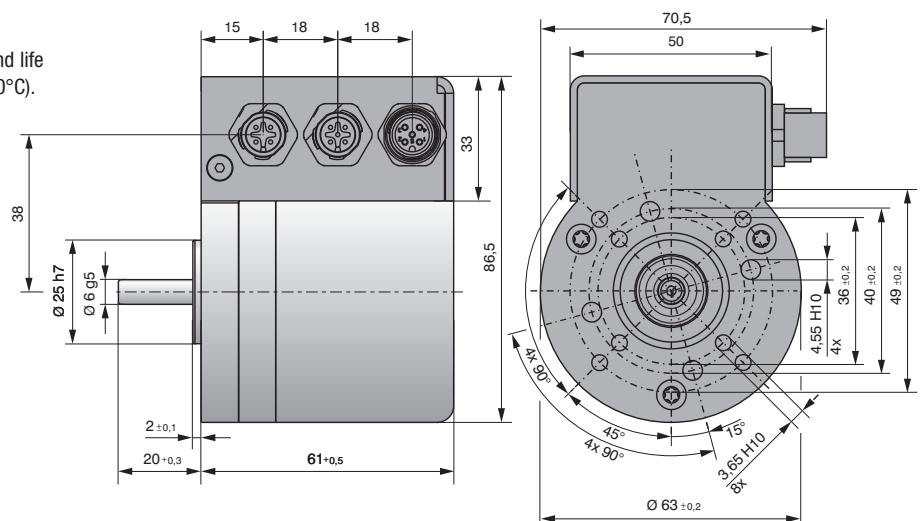
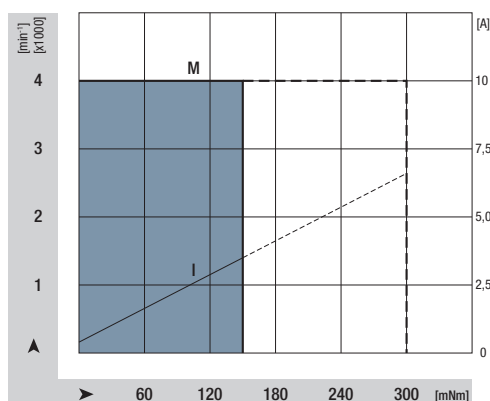
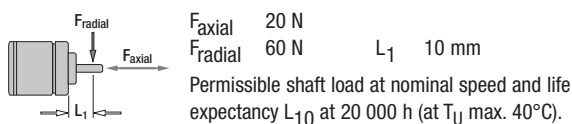


- Completely integrated operation and control electronics “K5” with CANopen communication interface and programming functionality
- Sine commutation of the drive based on field oriented control (FOC) and 4-quadrant operation
- Speed control range down to  $n=0$  rpm with holding torque
- Different modes of operation based on DSP 402 standard (speed, position, homing, torque) through CANopen interface
- Electronics-module in IP 54 version
- Connector system in sealed M12 industry standard
- Interface with digital inputs

## Nominal data

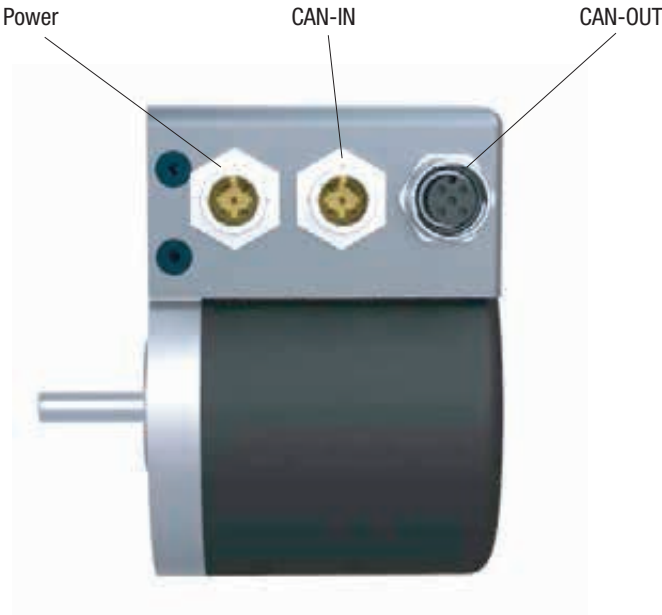
Type	VDC5-3-49.15 B00	
Nominal voltage ( $U_N$ )	V DC	24
Permissible supply voltage range ( $U_{ZK}$ )	V DC	18 to 30
Nominal speed ( $n_N$ )	rpm	4 000
Nominal torque ( $M_N$ )	mNm	150
Nominal current ( $I_N$ )	A	3,5
Nominal output power ( $P_N$ )	W	63
Speed at no-load operation ( $n_L$ )	rpm	4 000
No-load current ( $I_L$ )	A	0,4
Max. reverse voltage	V DC	36,7
Set value input		Can Bus
Set speed	rpm	0 ... 4 000
Recommended speed control range	rpm	0 ... 4 000
Locked-rotor protection		thermal
with locked-rotor protection clock		no
Overload protection		yes
Starting torque	mNm	300
Rotor moment of inertia ( $J_R$ )	$\text{kgm}^2 \times 10^{-6}$	108
Thermal resistance ( $R_{th}$ )	K/W	–
Protection class		IP 54*
Ambient temperature range ( $T_U$ )	°C	0 ... +40
Motor mass (m)	kg	0,59
Order No.		-

\* Type of protection specified pertains to installed state with seal on the flange side.

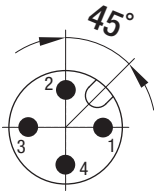


Description of connection interface with electronics module K5

The VDC-3-49.15 with built-on electronics module K5 is an extremely compact drive unit.  
With the CANopen interface, the extensive functionality and the robust design the motor is suitable for a large variety of applications such as automated format adjustments or torque-controlled winder drives.

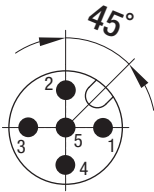


Power:



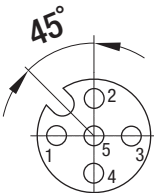
Pin 1	UZK	Power supply motor
Pin 2	GND	Power/ logic supply
Pin 3	UB	Logic supply
Pin 4	IN 1	Digital input

CAN-IN:



Pin 1	n.c.	
Pin 2	IN 2	Digital input
Pin 3	CAN-GND	CAN-GND
Pin 4	CAN_H	CAN High Signal
Pin 5	CAN_L	CAN Low Signal

CAN-OUT:



Pin 1	n.c.	
Pin 2	IN 3	Digital input
Pin 3	CAN-GND	CAN-GND
Pin 4	CAN_H	CAN High Signal
Pin 5	CAN_L	CAN Low Signal