

# VARIODRIVE Compact-motor

VDC-3-49.15-K4

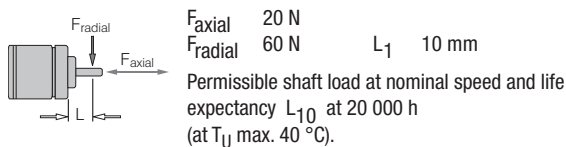


- Drive with completely integrated 4Q drive- and control electronics K4
- Speed-, position- or torque mode possible
- Selection of operation mode and parameterisation via RS485
- Extensive interface with numerous inputs and outputs
- Release of powerstage via digital input
- Integrated brake chopper function
- Speed command signal from  $n = 0$  with holding torque until 4 000 rpm possible
- Field-oriented control
- High power density with compact model
- Robust mechanical design with aluminium cover and sealed plug system
- User friendly parameterisation via PC-Software "Kickstart" possible

## Nominal data

Type		VDC-3-49.15-K4 B00	VDC-3-49.15-K4 D00
Nominal voltage ( $U_N$ )	V DC	24	48
Permissible supply voltage range ( $U_{ZK}$ )	V DC	20 ... 28	40 ... 53
Nominal speed ( $n_N$ )	min <sup>-1</sup>	4 000	4 000
Nominal torque ( $M_N$ )	mNm	235	300
Nominal current ( $I_N$ )	A	5	3.2
Nominal output power ( $P_N$ )	W	100	125
Free-running speed ( $n_L$ )	min <sup>-1</sup>	4 000	4 000
Free-running current ( $I_L$ )	A	0.4	0.25
Max. reverse voltage	V DC	35	58
Set value input		analogue/PWM/frequency/digital	analogue/PWM/frequency/digital
Recommended speed control range	min <sup>-1</sup>	0 ... 4 000	0 ... 4 000
Function for motor protection at stall		thermal	thermal
Overload protection		yes	yes
Starting torque	mNm	3x $M_N$	3x $M_N$
Rotor moment of inertia ( $J_R$ )	kgm <sup>2</sup> x10 <sup>-6</sup>	108	108
Thermal resistance ( $R_{th}$ )	K/W	-	-
Protection class		IP 54*	IP 54*
Ambient temperature range ( $T_U$ )	°C	0 ... +40	0 ... +40
Motor mass (m)	kg	0.59	0.59
Order No.		937 4915 400	937 4915 402

subject to alterations



\* Ingress Protection class (IP 54) refers to connector interface with sealing on the flange side

