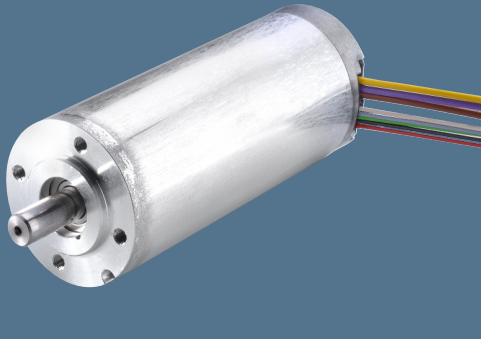


ECl-motor

ECl-42.20



- Highly dynamic 3-phase internal rotor motor in EC technology
- Multi-pole motor design for optimum power density
- Aluminium housing
- Robust ball bearing system for long service life
- Basic motor with electronics module K1 for operation with external drive electronics
- low cogging torque

Neendaten

| Typ | | ECl-42.20 B00 | ECl-42.20 D00 |
|---|------------------------------------|---------------|---------------|
| Nominal voltage (U_{BN}) | V DC | 24 | 48 |
| Nominal speed (n_N) (controlled) | min ⁻¹ | 4000 | 4000 |
| Nominal torque (M_N) | mNm | 110 | 110 |
| Nominal current (I_{BN}) | A | 2,5 | 1,3 |
| Nominal output power (P_N) | W | 46 | 46 |
| Speed at no-load operation (n_L) | min ⁻¹ | 6500 | 6500 |
| No-load current (I_{BL}) | A | 0,2 | 0,1 |
| Short-term permiss. peak torque (M_{max}) | mNm | 480 | 480 |
| Permiss. peak current, motor lead (I_{max}) | A | 14 | 7 |
| Induced voltage (U_{max}) | V/1000 min ⁻¹ | 3,39 | 8,49 |
| Terminal resistance (R_V) | Ω | 0,9 | 3,25 |
| Terminal inductance (L_V) | mH | 1,1 | 4,5 |
| Rotor moment of inertia (J_R) | kgm ² x10 ⁻⁶ | 3,42 | 3,42 |
| Protection class | | IP 40 | IP 40 |
| Ambient temperature range (T_U) | °C | 0...+40°C | 0...+40°C |
| Motor mass (m) | kg | 0,33 | 0,33 |
| Order No. | | 932 4220 122 | 932 4220 123 |

F_{axial} 30 N
 F_{radial} 75 N L_1 20 mm

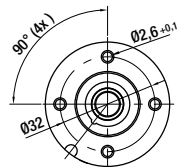
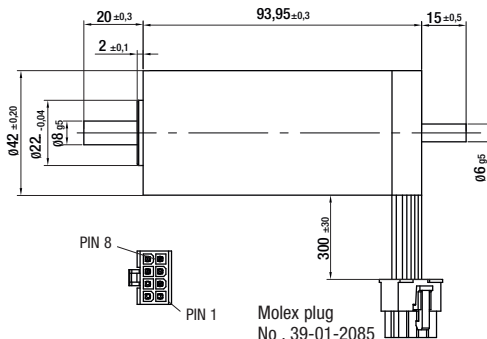
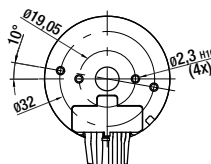
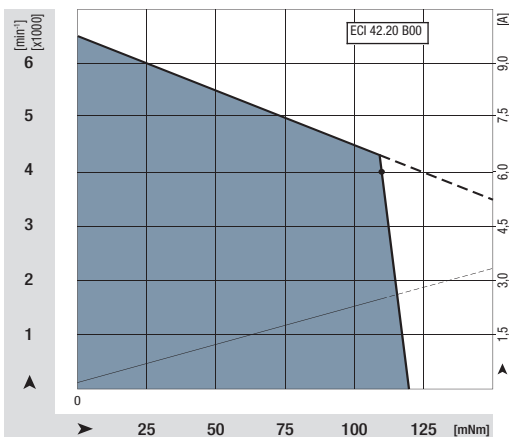
Permissible shaft load at nominal speed and life expectancy L_{10} at 20 000 h (at T_U max. 40°C).

Signal line

| No. | Colour | Function |
|-----|--------|----------|
| 4 | green | Hall A |
| 3 | white | Hall B |
| 8 | grey | Hall C |
| 2 | red | UB |
| 7 | black | Gnd |

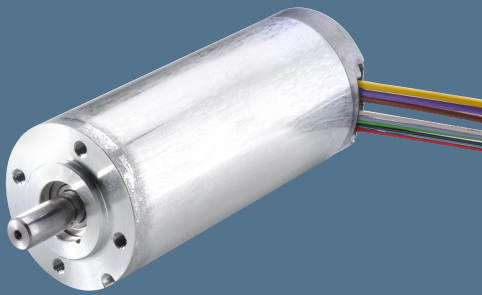
Winding input lead

| No. | Colour | Function |
|-----|--------|----------|
| 1 | yellow | W |
| 5 | violet | V |
| 6 | brown | U |



ECI-motor

ECI-42.40



- Highly dynamic 3-phase internal rotor motor in EC technology
- Multi-pole motor design for optimum power density
- Aluminium housing
- Robust ball bearing system for long service life
- Basic motor with electronics module K1 for operation with external drive electronics
- low cogging torque

Nenndaten

| Typ | | ECI-42.40 B00 | ECI-42.40 D00 |
|---|------------------------------------|---------------|---------------|
| Nominal voltage (U_{BN}) | V DC | 24 | 48 |
| Nominal speed (n_N) (controlled) | min ⁻¹ | 4000 | 4000 |
| Nominal torque (M_N) | mNm | 220 | 220 |
| Nominal current (I_{BN}) | A | 5,1 | 2,6 |
| Nominal output power (P_N) | W | 92 | 92 |
| Speed at no-load operation (n_l) | min ⁻¹ | 6500 | 6500 |
| No-load current (I_{BL}) | A | 0,4 | 0,2 |
| Short-term permiss. peak torque (M_{max}) | mNm | 960 | 960 |
| Permiss. peak current, motor lead (I_{max}) | A | 21 | 10,5 |
| Induced voltage (U_{max}) | V/1000 min ⁻¹ | 4,41 | 8,38 |
| Terminal resistance (R_V) | Ω | 0,49 | 1,5 |
| Terminal inductance (L_V) | mH | 0,5 | 1,84 |
| Rotor moment of inertia (J_R) | kgm ² x10 ⁻⁶ | 6,7 | 6,7 |
| Protection class | | IP 40 | IP 40 |
| Ambient temperature range (T_U) | °C | 0...+40°C | 0...+40°C |
| Motor mass (m) | kg | 0,48 | 0,48 |
| Order No. | | 932 4240 122 | 932 4240 123 |

F_{axial} 30 N
 F_{radial} 75 N L_1 20 mm

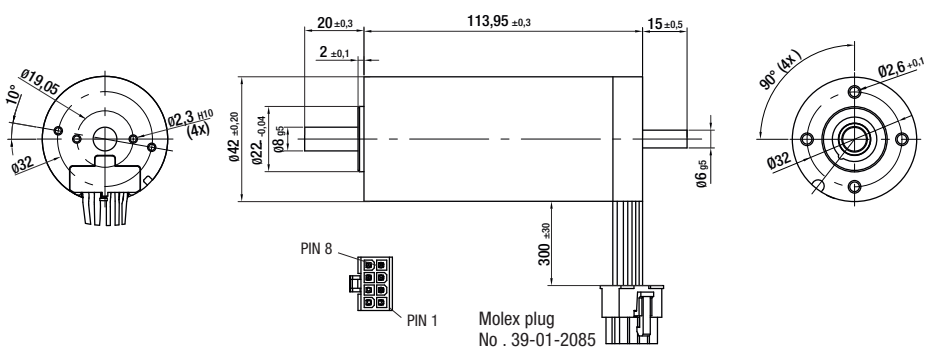
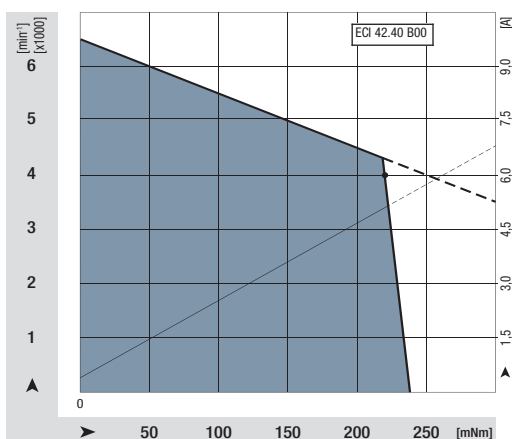
Permissible shaft load at nominal speed and life expectancy L_{10} at 20 000 h (at T_U max. 40°C).

Signal line

| No. | Colour | Function |
|-----|--------|----------|
| 4 | green | Hall A |
| 3 | white | Hall B |
| 8 | grey | Hall C |
| 2 | red | UB |
| 7 | black | Gnd |

Winding input lead

| No. | Colour | Function |
|-----|--------|----------|
| 1 | yellow | W |
| 5 | violet | V |
| 6 | brown | U |



ECI 63.20

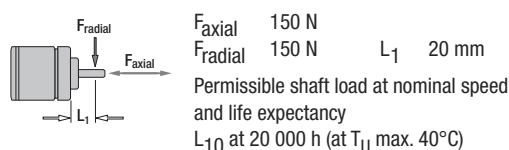
with electronic module K4

- 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 „hardware enable“
- Integrated brake chopper function
- Speed command signal from $n = 0$ with holding torque until 5 000 rpm possible
- Field oriented control
- 15-pin connector (M16)
- User friendly parameterisation via PC-Software “Kickstart” possible

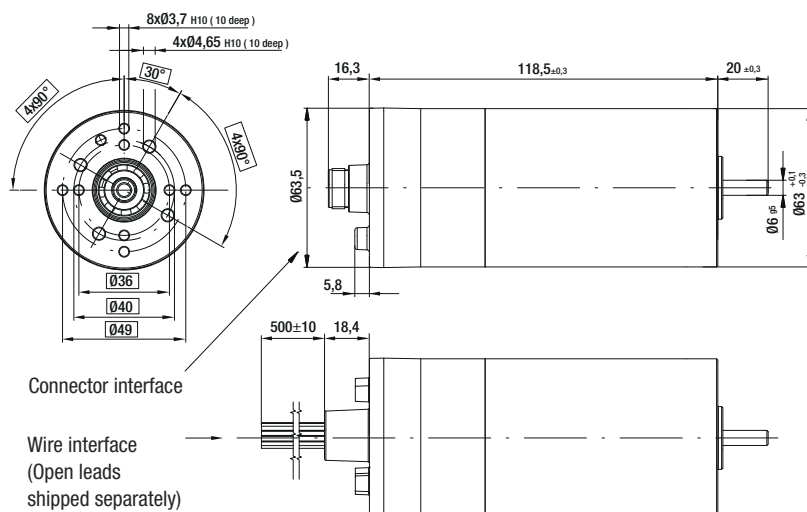
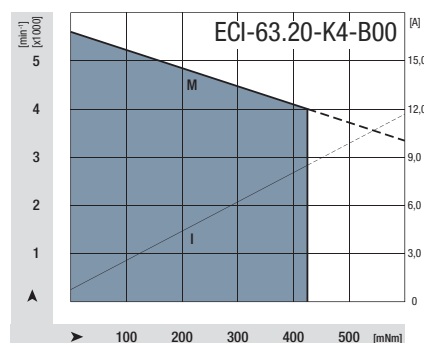


Nominal data

| Type | | ECI-63.20-K4-B00 | ECI-63.20-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^{-1} | 4 000 | 4 000 |
| Nominal torque (M_N) | mNm | 425 | 450 |
| Nominal current (I_N) | A | 8.5 | 5.4 |
| Nominal output power (P_N) | W | 178 | 188 |
| Free-running speed (n_L) | min^{-1} | 5 600 | 6 000 |
| Free-running current (I_L) | A | 0.5 | 0.3 |
| Max. reverse voltage | V DC | 35 | 58 |
| Set value input | | analogue/PWM/frequency/digital | analogue/PWM/frequency/digital |
| Recommended speed control range | min^{-1} | 0 ... 5 000 | 0 ... 5 000 |
| Function for motor protection at stall | | thermally | thermally |
| Overload protection | | yes | yes |
| Starting torque | mNm | $3.5 \times M_N$ | $4.2 \times M_N$ |
| Rotor moment of inertia (J_R) | $\text{kgm}^2 \times 10^{-6}$ | 19 | 19 |
| Thermal resistance (R_{th}) | K/W | 3.6 | 3.6 |
| Protection class | | IP 40 / IP 54* | IP 40 / IP 54* |
| Ambient temperature range (T_U) | °C | 0 ... +40 | 0 ... +40 |
| Motor mass (m) | kg | 0.85 | 0.85 |
| Order No. (ECI-63.20-K4-S) | Connector interface | 932 6320 400 | 932 6320 402 |
| Order No. (ECI-63.20-K4-L) | Wire interface | 932 6320 403 | 932 6320 405 |



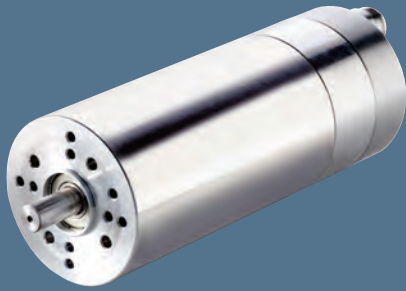
* Ingress Protection class (IP 54) refers to connector interface with sealing on the flange side



ECI 63.40

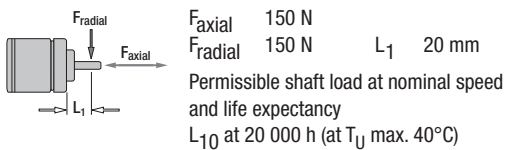
with electronic module K4

- 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 „hardware enable“
- Integrated brake chopper function
- Speed command signal from $n = 0$ with holding torque until 5 000 rpm possible
- Field oriented control
- 15-pin connector (M16)
- User friendly parameterisation via PC-Software “Kickstart” possible

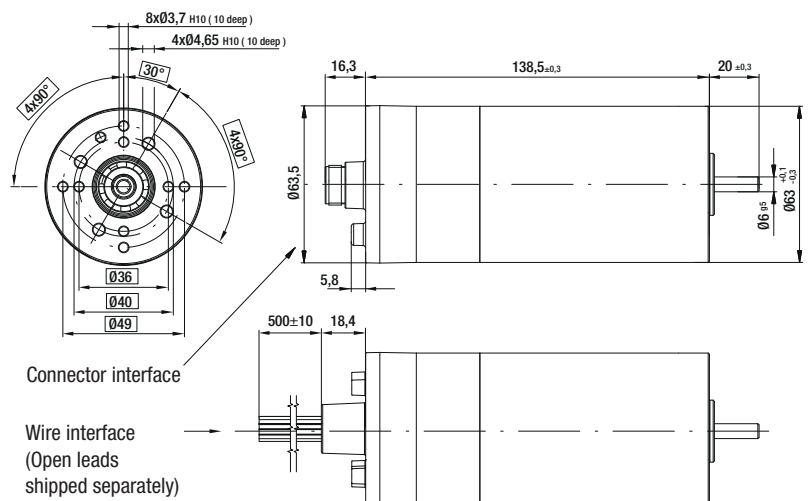
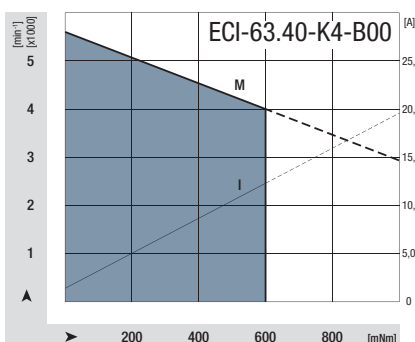


Nominal data

| Type | | ECI-63.40-K4-B00 | ECI-63.40-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 ⁻¹ | 4 000 | 4 000 |
| Nominal torque (M_N) | mNm | 600 | 750 |
| Nominal current (I_N) | A | 12.3 | 7.2 |
| Nominal output power (P_N) | W | 251 | 314 |
| Free-running speed (n_L) | min ⁻¹ | 5 600 | 5 400 |
| Free-running current (I_L) | A | 0.9 | 0.46 |
| Max. reverse voltage | V DC | 35 | 58 |
| Set value input | | analogue/PWM/frequency/digital | analogue/PWM/frequency/digital |
| Recommended speed control range | min ⁻¹ | 0 ... 5 000 | 0 ... 5 000 |
| Function for motor protection at stall | | thermally | thermally |
| Overload protection | | yes | yes |
| Starting torque | mNm | 2.5 x M_N | 4 x M_N |
| Rotor moment of inertia (J_R) | kgm ² x10 ⁻⁶ | 38 | 38 |
| Thermal resistance (R_{th}) | K/W | 2.9 | 2.9 |
| Protection class | | IP 40 / IP 54* | IP 40 / IP 54* |
| Ambient temperature range (T_U) | °C | 0 ... +40 | 0 ... +40 |
| Motor mass (m) | kg | 1.15 | 1.15 |
| Order No. (ECI-63.40-K4-S) | Stand design | 932 6340 400 | 932 6340 402 |
| Order No. (ECI-63.40-K4-L) | Cable design | 932 6340 403 | 932 6340 405 |



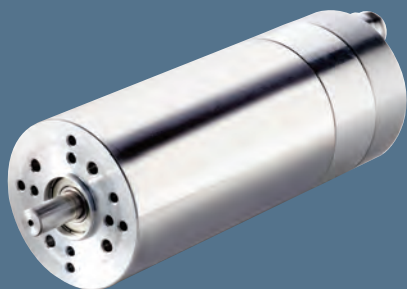
* Ingress Protection class (IP 54) refers to connector interface with sealing on the flange side



ECI 63.60

with electronic module K4

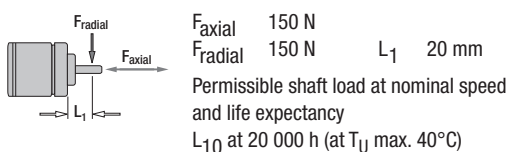
- Drive with completely integrated 4Q drive- and control electronics K4
- Speed-, position- or torque mode possible
- Selection of operation mode and parameterisation via RS485
- Extensive interface with numerous inputs and outputs
- Release of powerstage via digital input „hardware enable“
- Integrated brake chopper function
- Speed command signal from $n = 0$ with holding torque until 5 000 rpm possible
- Field oriented control
- 15-pin connector (M16)
- User friendly parameterisation via PC-Software “Kickstart” possible



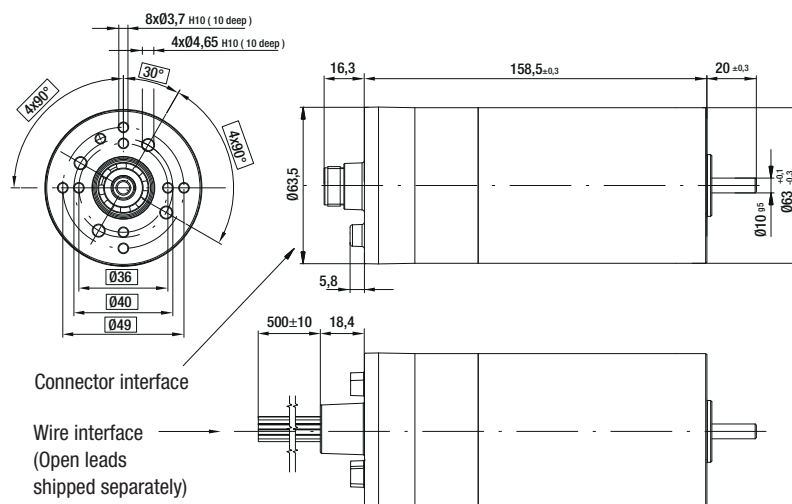
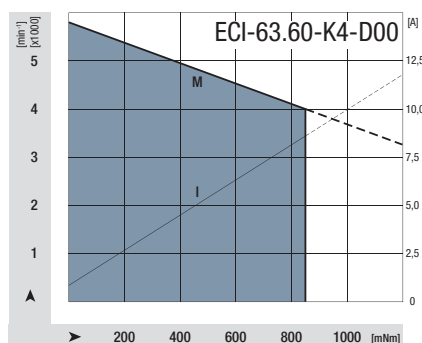
Nominal data

Type **ECI-63.60-K4-D00**

| | | |
|---|-------------------------------|--------------------------------|
| Nominal voltage (U_N) | V DC | 48 |
| Permissible supply voltage range (U_{ZK}) | V DC | 40 ... 53 |
| Nominal speed (n_N) | min^{-1} | 4 000 |
| Nominal torque (M_N) | mNm | 850 |
| Nominal current (I_N) | A | 8.6 |
| Nominal output power (P_N) | W | 356 |
| Free-running speed (n_L) | min^{-1} | 5 800 |
| Free-running current (I_L) | A | 0.60 |
| Max. reverse voltage | V DC | 58 |
| Set value input | | analogue/PWM/frequency/digital |
| Recommended speed control range | min^{-1} | 0 ... 5 000 |
| Function for motor protection at stall | | thermally |
| Overload protection | | yes |
| Starting torque | mNm | $3 \times M_N$ |
| Rotor moment of inertia (J_R) | $\text{kgm}^2 \times 10^{-6}$ | 57 |
| Thermal resistance (R_{th}) | K/W | 2.5 |
| Protection class | | IP 40 / IP 54* |
| Ambient temperature range (T_U) | $^{\circ}\text{C}$ | 0 ... +40 |
| Motor mass (m) | kg | 1.5 |
| Order No. (ECI-63.60-K4-S) | Stand design | 932 6360 402 |
| Order No. (ECI-63.60-K4-L) | Cable design | 932 6360 405 |



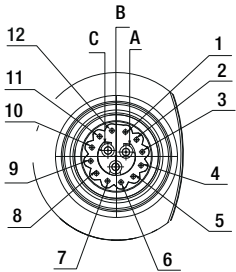
* Ingress Protection class (IP 54) refers to connector interface with sealing on the flange side



ECl 63 with electronic K4

Configuration - drive connector

– 15-pin connector (M16)

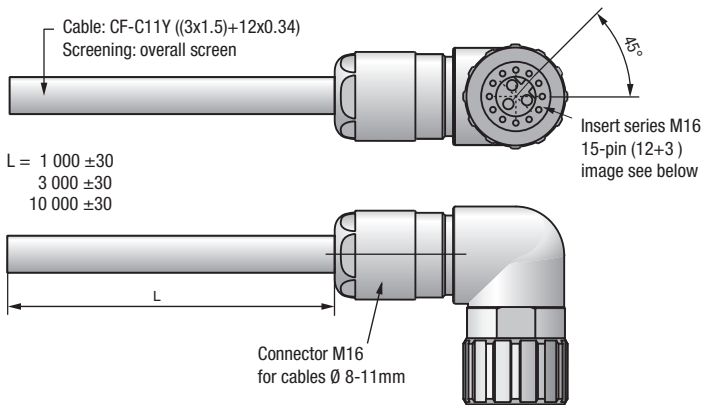


Pin configuration is the same for connector interface and wire interface

| | | |
|--------|--------------------|--------------------------------------|
| Pin 1 | Digital IN A | NPN 24V |
| Pin 2 | Digital IN B | NPN 24V |
| Pin 3 | Digital IN 1 | NPN 24V |
| Pin 4 | Digital IN 2* | NPN 24V |
| Pin 5 | Digital OUT 1 | PNP 24V |
| Pin 6 | Digital OUT 2 | PNP 24V |
| Pin 7 | Digital OUT 3 | PNP 24V |
| Pin 8 | Analogue IN 1 | 0...10V (differential) |
| Pin 9 | Analogue GND | GND for Analogue IN 1 (differential) |
| Pin 10 | RS485 + | Progr.-Bus |
| Pin 11 | RS485 - | Progr.-Bus |
| Pin 12 | U _{Logik} | Power supply + (24V) |
| Pin A | Ballast | Ballast resistor |
| Pin B | U _{ZK} | Power supply |
| Pin C | GND | Power- / signal-GND |

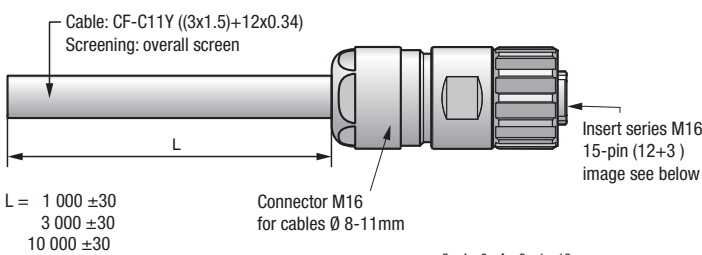
Connecting cable with straight and angular connector

- All signals / supplies within one cable
- The cable is available in 2 versions and in 3 standard lengths

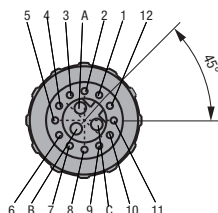


| | |
|-------------------------|--------------|
| Order No. (1 000 mm) = | 992 0160 028 |
| Order No. (3 000 mm) = | 992 0160 029 |
| Order No. (10 000 mm) = | 992 0160 030 |

| Strand | Pin | | |
|-----------|--------|--------------------|--------------------------------------|
| white | Pin 1 | Digital IN A | NPN 24V |
| brown | Pin 2 | Digital IN B | NPN 24V |
| green | Pin 3 | Digital IN 1 | NPN 24V |
| yellow | Pin 4 | Digital IN 2* | NPN 24V |
| grey | Pin 5 | Digital OUT 1 | PNP 24V |
| pink | Pin 6 | Digital OUT 2 | PNP 24V |
| blue | Pin 7 | Digital OUT 3 | PNP 24V |
| red | Pin 8 | Analogue IN 1 | 0...10V (differential) |
| black | Pin 9 | Analogue GND | GND for Analogue IN 1 (differential) |
| violet | Pin 10 | RS485 + | Progr.-Bus |
| grey/pink | Pin 11 | RS485 - | Progr.-Bus |
| red/blue | Pin 12 | U _{Logik} | Logic power supply + (24V) |
| grey | Pin A | Ballast | Ballast resistor |
| brown | Pin B | U _{ZK} | Power supply |
| black | Pin C | GND | Power- / signal-GND |



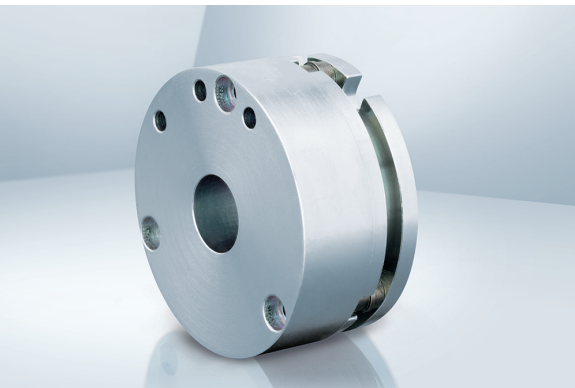
| | |
|-------------------------|--------------|
| Order No. (1 000 mm) = | 992 0160 025 |
| Order No. (3 000 mm) = | 992 0160 026 |
| Order No. (10 000 mm) = | 992 0160 027 |



| Strand | Pin | | |
|-----------|--------|--------------------|--------------------------------------|
| white | Pin 1 | Digital IN A | NPN 24V |
| brown | Pin 2 | Digital IN B | NPN 24V |
| green | Pin 3 | Digital IN 1 | NPN 24V |
| yellow | Pin 4 | Digital IN 2* | NPN 24V |
| grey | Pin 5 | Digital OUT 1 | PNP 24V |
| pink | Pin 6 | Digital OUT 2 | PNP 24V |
| blue | Pin 7 | Digital OUT 3 | PNP 24V |
| red | Pin 8 | Analogue IN 1 | 0...10V (differential) |
| black | Pin 9 | Analogue GND | GND for Analogue IN 1 (differential) |
| violet | Pin 10 | RS485 + | Progr.-Bus |
| grey/pink | Pin 11 | RS485 - | Progr.-Bus |
| red/blue | Pin 12 | U _{Logik} | Logic power supply + (24V) |
| grey | Pin A | Ballast | Ballast resistor |
| brown | Pin B | U _{ZK} | Power supply |
| black | Pin C | GND | Power- / signal-GND |

* Can also be programmed as analogue IN 2

ECl brake module



- Holding brake with emergency stop function**
- Braking torque applied by spring force
- Single-disk brake with 2 friction contact surfaces
- Currentless-operated brake, released electromagnetically

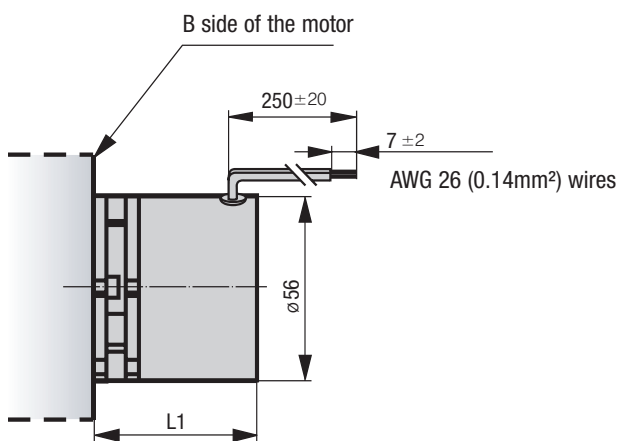
| Type | | BFK* |
|----------------------------------|------------------|--------------------------|
| Nominal voltage | V DC | 24 |
| Permissible supply voltage range | V DC | 22 - 26 |
| Nominal power | W | 10 |
| Braking torque | Nm | 1 |
| Closing time | ms | 50 |
| Release time | ms | 50 |
| External version | Protection class | IP 40 |
| Internal version | Protection class | IP 54 |
| Ambient temperature range | °C / °F | 0 ... +40 / +32 ... +104 |
| Mass | kg | 0.33 |

subject to alterations

* Brake module is only mounted available with the ECI-63.XX-K1 / -K4 / -K5 drives.

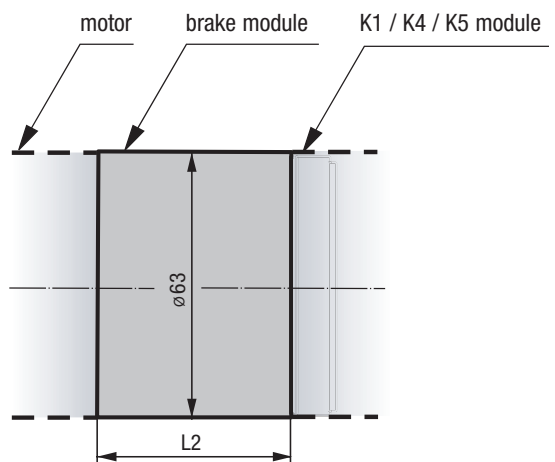
** Max. 150 emergency stops possible

External version



External attached spring-applied brake

Internal version



Housing module with integrated spring-applied brake (Brake module is connected internally and can be activated / deactivated by the motor supply)

| Additional length by brake module | | |
|-----------------------------------|--------------------------|-----------------------|
| Type | L1 (external version) | L2 (internal version) |
| K1 | 27,5 mm | 26,8 mm |
| K4 | 27,5 mm + 23mm (Adaptor) | 45,4 mm |
| K5 | ----- | 45,4 mm |

VARIODRIVE Compact-motor

VDC-3-49.15-K4



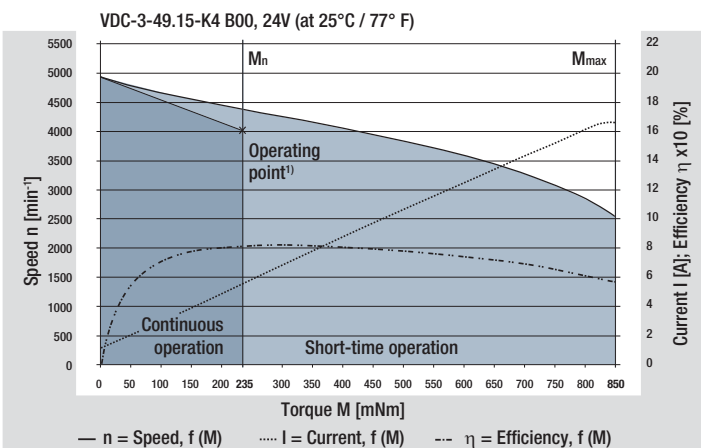
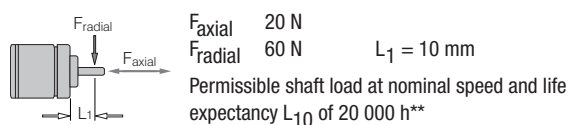
- Drive with completely integrated 4Q operation and K4 control electronics
- Speed, position or torque mode possible
- Selection of operation mode and parameterization via RS485
- Extensive interface with numerous inputs and outputs
- Output stage enabled via digital input
- Integrated brake chopper function
- Speed command signal from $n = 0$ with holding torque until 4 500 rpm
- Excellent control behavior via field-oriented control with sine commutation
- High efficiency and high power density realized in a compact design
- Robust mechanical design with aluminium cover and sealed plug system
- User-friendly parameterization with "Kickstart" PC software

Nominal data

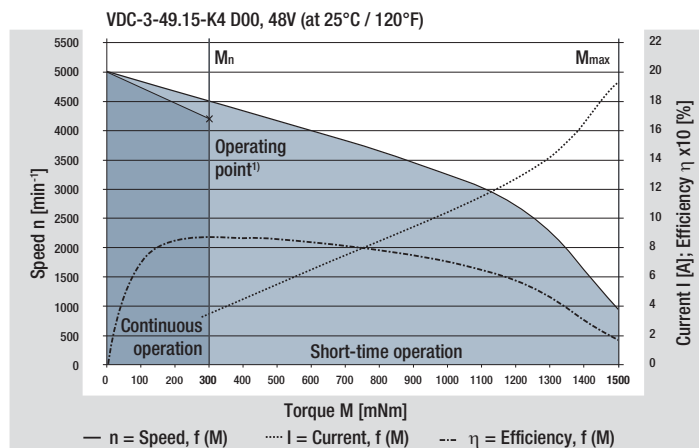
| Type | | VDC-3-49.15-K4 B00 | VDC-3-49.15-K4 D00 |
|---|-------------------------------------|------------------------------|------------------------------|
| Nominal voltage (U_N) | V DC | 24 | 48 |
| Permissible supply voltage range (U_{ZK}) | V DC | 20 ... 28 | 40 ... 53 |
| Nominal speed (n_N) | min ⁻¹ | 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 ⁻¹ | 5 000 | 5 000 |
| Free-running current (I_L) | A | 1.0 | 0.6 |
| Max. reverse voltage | V DC | 35 | 58 |
| Set value input | | analog/PWM/frequency/digital | analog/PWM/frequency/digital |
| Recommended speed control range | min ⁻¹ | 0 ... 4 500 | 0 ... 4 500 |
| Function for motor protection at stall | | thermal | thermal |
| Overload protection | | yes | yes |
| Starting torque (M_{max}) | mNm | 850 | 1500 |
| Rotor moment of inertia (J_R) | kgm ² x 10 ⁻⁶ | 108 | 108 |
| Protection class | | IP 54* | IP 54* |
| Ambient temperature range (T_U) | °C / °F | -30 ... +40 / -22 ... +104 | -30 ... +40 / -22 ... +104 |
| Motor mass (m) | kg | 0.59 | 0.59 |
| Order No. | | 937 4915 400 | 937 4915 402 |

subject to alterations

* Classification of protection class refers to installed state with sealing on the flange side
 ** at T_U max. 40 °C / 104 °F



¹⁾ Nominal data, see table above

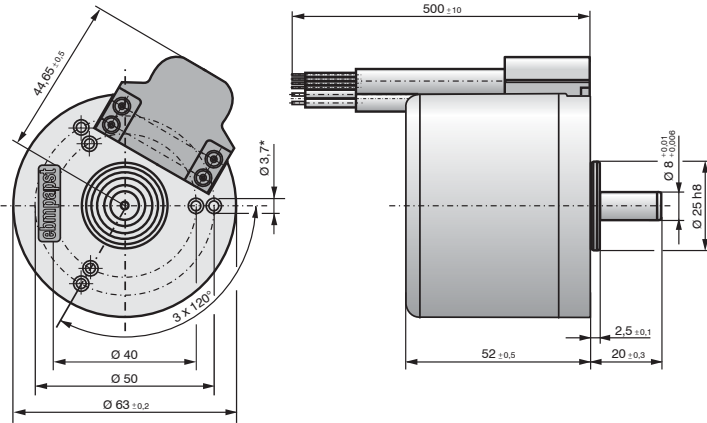


¹⁾ Nominal data, see table above

VARIODRIVE Compact-motor

VDC-3-49.15-K4

Technical drawing



* Tapped blind holes for thread-forming screws in accordance to DIN 7500.
max. screw depth 9,5 mm
max. screw-in torque 3 Nm

Protective cap in aluminium natural.

Pin connection motor

| Wire | Configuration | Function | AWG |
|-----------|--------------------|--------------------------------|-----|
| blue | Ballast | Ballast resistor | 16 |
| brown | U _{ZK} | Power supply | 16 |
| black | GND | Power-/ Signal-GND | 16 |
| green | U _{Logic} | Logic power supply (+24V) | 24 |
| white | RS 485 + | Progr. -Bus | 24 |
| grey | RS 485 - | Progr. -Bus | 24 |
| red | Analog IN 1 | 0...10V (differential) | 24 |
| yellow | Analog GND | GND Analog IN 1 (differential) | 24 |
| violet | IN 1 | NPN 24V | 24 |
| black | IN 2 | NPN 24V / Analog | 24 |
| red/blue | IN A | NPN 24V | 24 |
| grey/pink | IN B | NPN 24V | 24 |
| brown | OUT 1 | PNP 24V | 24 |
| pink | OUT 2 | PNP 24V | 24 |
| blue | Must not be used | Must not be used | 24 |



AWG 16 (1.3 mm²)

AWG 24 (0.22 mm²)

Possible gear combinations (e.g. PerformaxPLUS 63)

| Type | Permanent nominal torque [Nm] | Gear reduction [i] | Order No. |
|-----------------------------|-------------------------------|--------------------|--------------|
| VDC-3-49.15-K4-B00-PXP63/5 | 1.0 | 5:1 | 947 4915 420 |
| VDC-3-49.15-K4-B00-PXP63/30 | 5.7 | 30:1 | 947 4915 421 |
| VDC-3-49.15-K4-D00-PXP63/5 | 1.3 | 5:1 | 947 4915 422 |
| VDC-3-49.15-K4-D00-PXP63/30 | 7.3 | 30:1 | 947 4915 423 |

Further gear reductions, also in combination with other gearbox types, are available for your application.

Accessories

| Interface adapter for "Kickstart" PC software | Order No. |
|---|--------------|
| USB-CAN-RS485-Adapter | 914 0000 400 |

Load your detailed operating manual and the PC software „Kickstart“ under www.ebmpapst.com or the adjacent QR-Code:



Power supply unit

PS320 / 480 220 x 71 x 140 mm



- **Material:** Housing: Die cast aluminium
- **Connection:** All of plug-in type
- **Type of protection:** IP 65
- **Protection class:** I (PE connection required)
- **Mounting position:** Any
- **Highlights:** Wide range voltage input
High overload capacity
Status visualisation by way of LED
On/Off switch
- **Mass:** 2.3 kg

Nominal data

| Typ | | PS480-24-1 | PS320-24-2 | PS480-48-1 | PS320-48-2 |
|---|------|--|--------------|--|--------------|
| Part no. | | 9920472002 | 9920472004 | 9920472003 | 9920472001 |
| Output voltage | V DC | 1 x 24.5 ±3% | 2 x 24.5 ±3% | 1 x 48 ±3% | 2 x 48 ±3% |
| Continuous output power | W | 1 x 480 | 2 x 160 | 1 x 480 | 2 x 160 |
| Peak output power | W | max. 880 | max. 2 x 440 | max. 880 | max. 2 x 440 |
| Overvoltage protection (DC output end) ² | V | Permanent shut-off at ≥ 35V | | Permanent shut-off at ≥ 60V | |
| Max. feedback voltage | V DC | < 35 | | < 60 | |
| Efficiency ¹ | % | 93 | | | |
| Input voltage | V AC | 380-480 (3~) | | | |
| Input operating voltage range | V AC | 330-550 (3~) | | | |
| Nominal input current ¹ | A | < 1.0 (with 3 x 400V AC, 50 Hz) < 0.8 (with 3 x 480V AC, 50 Hz) | | < 0.8 (with 3 x 400V AC, 50 Hz) < 0.8 (with 3 x 480V AC, 50 Hz) | |
| Peak input current | A | < 4A, 3 x 400V AC, 50 Hz | | | |
| Nominal input frequency | Hz | 50-60 Hz | | | |
| Overtemperature protection ² | | Permanent shut-off | | | |
| Phase error ¹ | | Function guaranteed in 2-phase operation (however shorter service life and MTBF) | | | |
| Overvoltage category | | III (acc. to EN50178) | | | |
| Output/input isolation | | SELV, PELV IEC/EN 60950-1, EN50178 EN60204-1, IEC 60364-4-41 | | | |
| Additional control input | | Not used => reduced power ≤ 100W / channel | | | |
| Output ripple | mV | < 200 | | < 400 | |
| Overvoltage ² | | Shut-off on overvoltage | | | |
| Service life | h | 50.000 at nominal load in operation at 30°C | | | |
| Operating temperature | °C | -30 ... 40 | | | |
| Installation altitude | | < 1000 m above sea level | | | |
| Dimensions (L x H x D) | mm | 220 x 71 x 140 | | | |

Subject to alternations

¹ At P_{out} = 320W;

² To reset the power supply unit, switch off I/O switch for ≥ 3 s

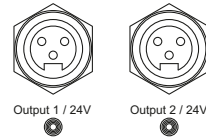
Power supply unit

PS320 / 480 220 x 71 x 140 mm

Connector versions

AC input: Lumberg Type RKW 40
Alternatively: Type RK 40

PS320-24-2 / PS320-48-2



DC output: Lumberg Type RSW 30
Alternatively: Type RS 30

PS480-48-1

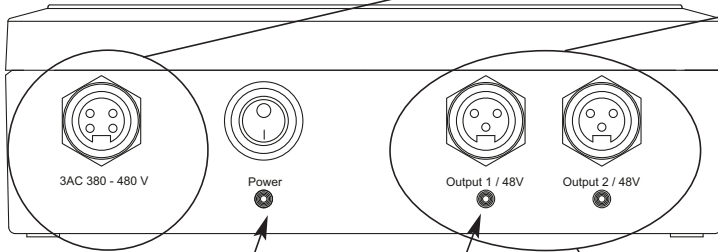


DC output: Lumberg Type RSW 30
Alternatively: Type RS 30

PS480-24-1



DC output: Cable connector 7.810.500.000
Crimp insert (pin) 7.003.983.101
Crimp contacts (pin) 7.010.982.001



Visualisation (LED):

On/Off switch

Green light: 3-phase operation
Flashing green: 2-phase operation

DC outputs

Green light: Control input Low, normal operation
Flashing green: Control input Low, normal operation, overload
Yellow light: Control input High, reduced-power operation
Flashing yellow: Control input High, reduced-power operation, overload

Characteristic curve current/voltage (example: PS320-24-2):

