



ADS 50/10 4-Q-DC Servoamplifier
Powerful PWM servoamplifier for permanent magnet activated DC motors from 80 to approx. 500 watts output power.
Available as Power Version in module housing.

ADS_E 50/5 4-Q-DC Servoamplifier
Powerful PWM servoamplifier for permanent magnet activated DC motors from 10 to approx. 250 watts output power.
Available as Standard Version in Eurocard format.

ADS_E 50/10 4-Q-DC Servoamplifier
Powerful PWM servoamplifier for permanent magnet activated DC motors from 80 to approx. 500 watts output power.
Available as Power Version in Eurocard format.

| Operating modes | | |
|---|--|--|
| IxR compensation, encoder speed control, DC tacho speed control, current control | IxR compensation, encoder speed control, DC tacho speed control, current control | IxR compensation, encoder speed control, DC tacho speed control, current control |
| Electrical Data | | |
| 12 - 50 VDC | 12 - 50 VDC | 12 - 50 VDC |
| 0.9 x V _{cc} | 0.9 x V _{cc} | 0.9 x V _{cc} |
| 20 A | 10 A | 20 A |
| 10 A | 5 A | 10 A |
| 50 kHz | 50 kHz | 50 kHz |
| 95 % | 95 % | 95 % |
| 75 µH / 10 A | 150 µH / 5 A | 75 µH / 10 A |
| Input | | |
| -10 ... +10 V | -10 ... +10 V | -10 ... +10 V |
| «Enable» | «Enable» | «Enable» |
| +4 ... +50 V | +4 ... +50 V | +4 ... +50 V |
| Min. 2 VDC, max. 50 VDC | Min. 2 VDC, max. 50 VDC | Min. 2 VDC, max. 50 VDC |
| Channel A, A\, B, B\, max. 100 kHz, TTL | Channel A, A\, B, B\, max. 100 kHz, TTL | Channel A, A\, B, B\, max. 100 kHz, TTL |
| Output | | |
| Open collector, max. 30 VDC (I _L < 20 mA) | Open collector max. 30 VDC (I _L < 20 mA) | Open collector max. 30 VDC (I _L < 20 mA) |
| -10 ... +10 VDC (short circuit protected) | -10 ... +10 VDC (short circuit protected) | -10 ... +10 VDC (short circuit protected) |
| -10 ... +10 VDC (short circuit protected) | -10 ... +10 VDC (short circuit protected) | -10 ... +10 VDC (short circuit protected) |
| Voltage outputs | | |
| +12 VDC, -12 VDC, max. 12 mA (short circuit prot.) | +12 VDC, -12 VDC, max. 12 mA (short circuit prot.) | +12 VDC, -12 VDC, max. 12 mA (short circuit prot.) |
| +5 VDC, max. 80 mA | +5 VDC, max. 80 mA | +5 VDC, max. 80 mA |
| I x R compensation, Offset, n _{max} , I _{max} , gain | I x R compensation, Offset, n _{max} , I _{max} , gain | I x R compensation, Offset, n _{max} , I _{max} , gain |
| Protected against over temperature, overcurrent and short-circuit of motor | Protected against over temperature, overcurrent and short-circuit of motor | Protected against over temperature, overcurrent and short-circuit of motor |
| Bi-colour LED, green = READY, red = ERROR | Bi-colour LED, green = READY, red = ERROR | Bi-colour LED, green = READY, red = ERROR |
| Ambient temperature / Humidity range | | |
| -10 ... +45°C | -10 ... +45°C | -10 ... +45°C |
| -40 ... +85°C | -40 ... +85°C | -40 ... +85°C |
| 20 ... 80 % | 20 ... 80 % | 20 ... 80 % |
| Mechanical data | | |
| Approx. 400 g | Approx. 175 g | Approx. 410 g |
| 180 x 103 x 26 mm (see page 278) | 160 x 100 x 16 mm (see page 278) | 160 x 100 x 30.5 mm (see page 278) |
| Flange for M4-screws | Rack-Installation | Rack-Installation |
| See page 278 | See page 278 | See page 278 |
| Order Number | | |
| 201583 ADS 50/10 4-Q-DC Servoamplifier Power Version in module housing | 166143 ADS_E 50/5 4-Q-DC Servoamplifier Standard Version in Eurocard format | 168049 ADS_E 50/10 4-Q-DC Servoamplifier Power Version in Eurocard format |
| Accessories | | |
| 235811 DSR 70/30 Shunt regulator | 167850 Front panel 3HE, 5TE 166873 Backplane with screw type terminal block | 168910 Front panel 3HE, 7TE 166873 Backplane with screw type terminal block |