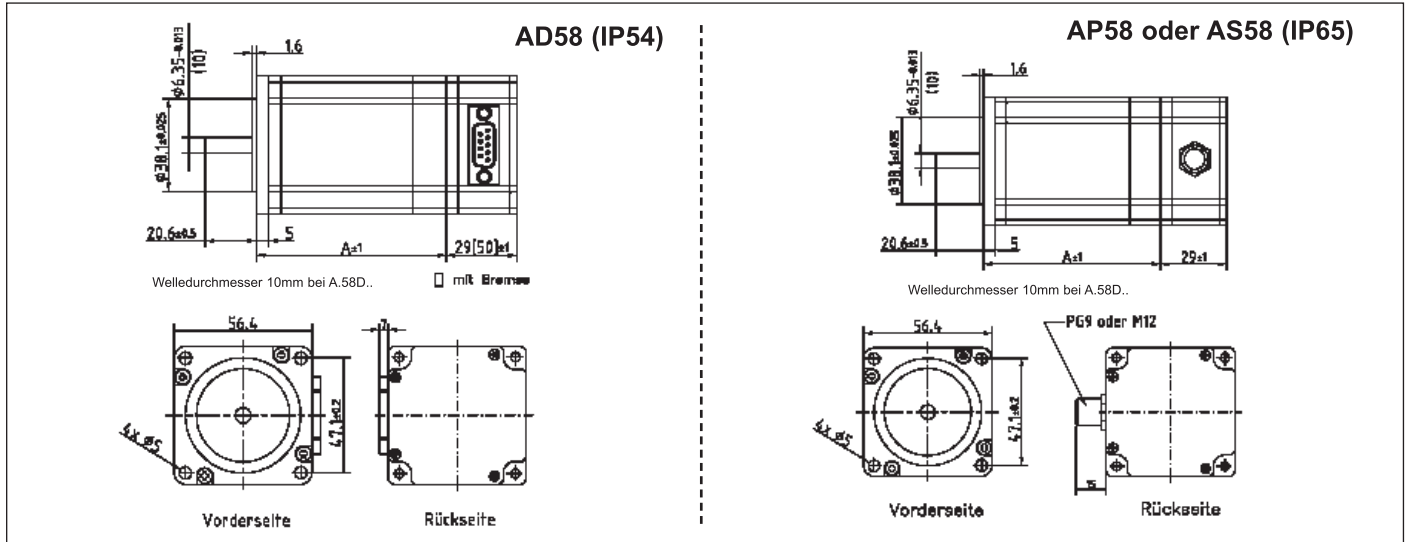


## AD58, AS58, AP58 stepper motor with terminal box in protection class IP54

AD58, AS58 and AP58 dimensioned drawing for flange size 56 with 1,8° / full step



### Ordering key:

D = D-SUB plug connection  
 P = PG screw connection  
 (with 2m cable of type:  
 LIYCY 4x0.5)  
 S = M12 plug connection

XX = Standard  
 KX = Brake BK(0.4NM)

Suitable connecting cable - see page 92

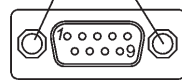
AD 58L3204 - □

### Pin assignments

- 1 - A
- 2 - A\
- 3 - B
- 4 - B\
- 5 - NC
- 6 - NC
- 7 - [Brake +24V]
- 8 - [Brake GND]
- 9 - NC

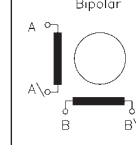
AD58  
 D-SUB 9-pin  
 (installed)

UNC4-40x5 IN



### Motor

Bipolar

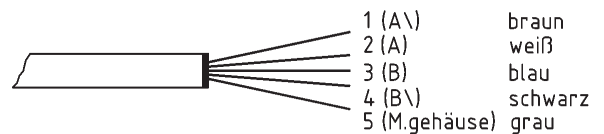
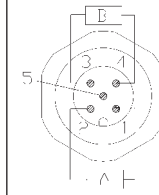


### AP58

(PG screw connection)



### AS58 (M12 plug connection)



Md characteristic curves for all models at [www.nanotec.de](http://www.nanotec.de) (with 0.9 step angle on request)

### Available output sizes (others available on request)

| Model  | Current<br>(A/phase) | Holding torque<br>(N cm) | Resistance<br>(Ohms/phase)<br>+ -10% | Inductivity t<br>(mH)<br>+ - 20% | Rotor moment<br>of inertia<br>(g cm <sup>2</sup> ) <sup>2</sup> | Weight<br>(kg) | Length "A"<br>(mm) | Options<br>(with encoder and<br>brakes on request) |
|--|----------------------|--------------------------|--------------------------------------|----------------------------------|---|----------------|--------------------|--|
| with D-SUB, M12 plug-in connector or PG screw connection                                   |                      |                          |                                      |                                  |   |                |                    |  |
| A.58X2104 -.   | 2.1                  | 60                       | 1.25                                 | 2.4                              | 120   | 0.5            | 43.5               | PLE40, 60  |
| A.58X4204 -.   | 4.2                  | 60                       | 0.32                                 | 0.6                              | 120   | 0.5            | 43.5               | PLE40, 60  |
| A.58M2104 -.   | 2.1                  | 105                      | 1.6                                  | 7.8                              | 300   | 0.9            | 55                 | PLE40, 60  |
| A.58M4204 -.   | 4.2                  | 105                      | 0.4                                  | 1.9                              | 300   | 0.9            | 55                 | PLE40, 60  |
| A.58L3204 -.   | 3.2                  | 170                      | 1.0                                  | 3.8                              | 480   | 1.3            | 77.5               | PLE40, 60, BK*                                     |
| A.58D3004 -.   | 3.0                  | 255                      | 2.0                                  | 10.4                             | 650   | 2.0            | 115                | PLE60, BK  |
| with D-SUB for faster speeds (max. current limit by connector contacts)                    |                      |                          |                                      |                                  |   |                |                    |  |
| AD58L5004 -.   | 5.0                  | 130                      | 0.25                                 | 0.95                             | 480   | 1.3            | 77.5               | PLE40, 60, BK                                      |
| AD58D5004 -.   | 5.0                  | 210                      | 0.5                                  | 2.6                              | 650   | 2.0            | 115                | PLE60, BK  |
| with M12 plug-in connection for faster speeds (max. current limited by connector contacts) |                      |                          |                                      |                                  |   |                |                    |  |
| AS58L4004 -.   | 4.0                  | 106                      | 0.25                                 | 0.95                             | 480   | 1.3            | 77.5               | PLE40,60   |
| AS58D4004 -.   | 4.0                  | 170                      | 0.5                                  | 2.6                              | 650   | 2.0            | 115                | PLE60  |
| with PG screw connection for faster speeds and torques                                     |                      |                          |                                      |                                  |   |                |                    |  |
| AP58L6404 -.   | 6.4                  | 170                      | 0.25                                 | 0.95                             | 480   | 1.3            | 77.5               | PLE40,60   |
| AP58D6004 -.   | 6.0                  | 255                      | 0,5                                  | 2.6                              | 650   | 2.0            | 115                | PLE60  |