

## Speed controllers DR 2



The controllers of series DR2 are suitable for closed-loop current and speed control operation of brush-type DC motors. 1-Q operation allows for dynamic operation of the drive in one direction of rotation. Speed feedback can be implemented either as analogue tachometer voltage or via EMF feedback with IxR compensation and ensures speed consistency under load changes. The device accepts set point settings as 0...10 V signal voltage or as current setting of 0...20 mA. The DR2 controllers are designed for operation with 24 or 42 VAC as well as 24 VDC. An option package expands the functionality of the DR2 by two adjustable fixed speeds, a set point differential input and a scalable current monitor. The electrical connection is carried out via a 32-pole plug connector in accordance with DIN41612, C type of construction or via 16-pole plug-in screw terminals (Combi-Con) as an option. The euro-card format is suitable for wall mounting, for operation in PCB slot or as an insert in a 19" system (3HE).

### Technical properties:

	DR 2.1xx	DR 2.2xx	DR 2.3xx
<b>Input voltage</b>	<b>24/42 V<sub>AC</sub> opt. 24V<sub>DC</sub></b>		
<b>Rated current</b>	<b>3,0 A</b>	<b>6,0 A</b>	<b>10,0 A</b>
<b>Peak current</b>	<b>7,5 A</b>	<b>15,0 A</b>	<b>20,0 A</b>
<b>Rated power (42V/24V)</b>	<b>125/70 W</b>	<b>250/140 W</b>	<b>420/240 W</b>
<b>Dimensions</b>	<b>100 x 160 x 28 mm<sup>3</sup></b>	<b>100 x 160 x 30 mm<sup>3</sup></b>	<b>100 x 160 x 47 mm<sup>3</sup></b>

Speed feedback via tachometer or IxR

Input voltage 24/42 VAC, optionally 24 VDC

2.5x rated current as peak current is available (max. 2 sec)

Adjustable set point ramp (soft start)

Cable break monitoring of tachogenerators

Option package with:

- Differential input for set point voltage

- Actual-value detection via incremental encoder

- Operation with two switchable, adjustable fixed speeds

- Scalable current monitor