WDG225

Maximum power in the most compact performance format.

Applications

The WDG225 is the top solution for maximum durability under industrial operating conditions.

Despite its enormous performance, it remains exceptionally short and therefore enables heavy-duty concepts where classic drives reach their limits.

Developed for maximum performance in minimal space.



Features & Benefits

- **Highest traction and pushing forces** in the series for heavy-duty AGVs
- **Extremely compact length** for maximum Freedom of design in the vehicle
- **Allows higher payloads** without increasing the vehicle footprint
- **Robust drive concept** for permanent peak loads
- **High process reliability** in demanding industrial environments
- **Integrated holding brake** for safe positioning under load
- **Ideal for heavy-duty logistics** and **industrial transport automation**

Technical data

		WDG225E-ABA	WDG225E-BBA	WDG225E-BAA	WDG225E-BBB
Rated voltage	VDC	24	48	48	48
Rated power	W	630	1020	665	1020
Speed	m/s	0 - 1.17	0 - 2.34	0 - 0.82	0 - 3.37
Rated torque	Nm	60.0	48.7	91.0	34.1
Maximum torque	Nm	180.0	180.0	180.0	125.0
Rated current	Arms	33.8	29.8	20.5	29.8
Maximum current	Arms	120.0	120.0	44.5	120.0

		WDG225
Max. wheel load*	kg	500
Wheel diameter	mm	225
Ambient temperature	°C	0 … 40
Relative humidity		< 80%, non-condensing
Temperature sensor		PT 1000 or PTC
Feedback		magn. Encoder
Supply voltage	VDC	5
Motor commutation signals		ABI, PWM
Resolution	Bit	10
brake		Spring-applied brake
Braking torque	Nm	5
Voltage	VDC	24

* Base 20,000 h, duty cycle = 60%, with combined radial and axial force.

Motor phase connections

color	signal	Presentation
Black 1	U	open ends Plug version on request
Black 2	V	
Black 3	W	
Green - yellow	n.c.	

Brake connections

color	signal	Presentation
Black 1	BR+	open ends Plug version on request
Black 2	BR GND	

Sensor cable connections

color	signal	Presentation
Blue	TH+	open ends Plug version on request
White	TH-	
Green - brown	GND	
Green - White	5V	
Violet	U	
Yellow	V	
Pink	B/	
Grey	B	
Black	A/	
Red	A	
Green	W	
Brown	n.c.	

Dimensions

