


**NEW**

I N T R O D U C I N G

# WR-Thin (WR230, WR240, WR250) VAR00

Spring Applied  
Electrically Released Brakes

## Thickness adaptive design for direct integrated holding/parking brake

The WR range is a pre-assembled on/off dry failsafe electromagnetic brake, highly reliable and compact for static engagement. Warner Electric recently extended the WR range with new sizes to be customized in terms of thickness vs static torque to fit applications where the brake is directly mounted inside a machine's frame and/or casting.

### Features

- 4 sizes with fixed diameter but different length/torque available
- Offers thin solutions down to 14mm
- 0.1 to 5.0Nm torque range
- Maximum inner diameter up to 35mm
- Various mounting options as magnet, flange or rear mount
- Direct encoder mount with special location diameter in option
- Noise reduction & energy saving in option
- High quality corrosion protection, RoHs, Reach, CE compliant

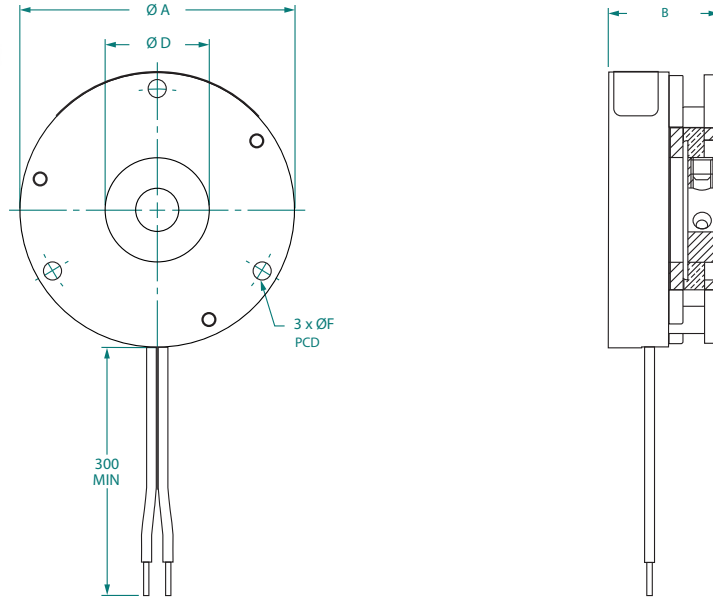
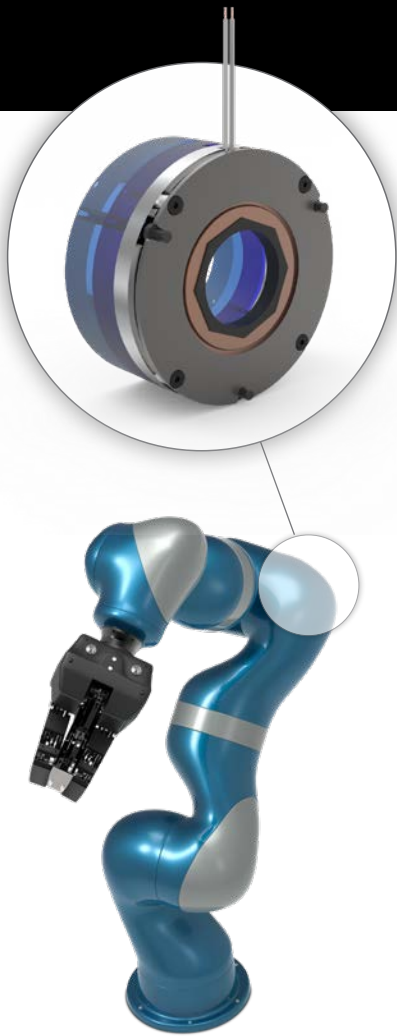
### Typical Applications

- Wheel Drive/Mobile Robot
- Cobot
- Scara Robot
- Patient Mobility Devices
- Integrated drive solution with frameless motor



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#### Torque, Power and Dimension

Model No.	Static Torque (Nm)	Rated Power (W) <sup>(1)</sup>	B Max. Brake Length <sup>(2)</sup>	A Max. Brake Diameter	F Nom. Mount PCD <sup>(2)</sup>	Mount Screw <sup>(2)</sup>	D Max. Inner Diameter
WR221	0.10	7.1 / 1.1	20.00	35.50	30.50	3 x M3	9.20
	0.35	6.0	30.00				
WR230	0.50	5.3	20.00	50.00	44.00	3 x M3	20.00
	1.50	11.0	28.00				
WR240	0.50	25.1 / 6.3	15.00	70.00	63.00	3 x M4	20.00
	2.50	11.0	19.20				
WR250	0.70	20.0 / 2.2	14.00	92.00	85.00	3 x M4	35.00
	2.00	22.0 / 2.4	20.00				
	5.00	28.6 / 3.2	25.00				

<sup>(1)</sup> Power based on 24VDC Voltage; Overexcitation required if 2 power values; For other voltages, consult Warner Electric Assistance

<sup>(2)</sup> For other PCD, length calculation, screw types, encoder adaptation and mounting solutions, consult Warner Electric Assistance

#### Specifications

Temperature	Duty Cycle	Max Speed (rpm)	Backlash Hexagonal Disc	Hexagonal Hub Drive <sup>(3)</sup>
0 / +40 °C	50% max	3,000	2.5 °	Plain, D-drive, with keyway, Oring

<sup>(3)</sup> Hub sizes, bore-length-position to be selected with Warner Electric Assistance

Customizable thickness down to 14mm

