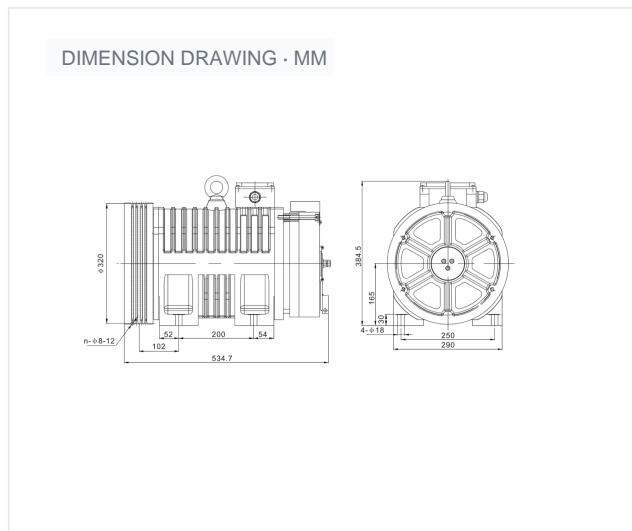


WTD2-P SERIES · PERMANENT MAGNET GEARLESS

WTD2-P544-100D

544 kg · 1.0 m/s

Compact permanent magnet synchronous machine for residential and small commercial elevators.



ELECTRICAL CHARACTERISTICS

Rated power	3.6 kW
Rated current	10 A
Rated speed	119 rpm
Frequency	19.9 Hz
Rated torque	290 N·m
Number of poles	20
Rated voltage	AC 380 V · 50/60 Hz
Brake voltage	DC 110 V · single coil

MECHANICAL PROPERTIES

Net weight	200 kg
Total length	534.7 mm
Overall height	384.5 mm
Mounting height	165 mm
Mounting holes	4 × Ø18 @ 250 mm
Sheave diameter	Ø 320 mm
Static shaft load	2,500 kg
Travelling height	≤ 90 m

DESIGN & STANDARDS

Motor type PM synchronous	Wrap Single	Roping 4 × Ø8 × 12 · ratio 2:1
Groove profile Undercut U	Cut angle β 90°	Groove angle γ 30°
Duty cycle S5 – 40%	Insulation class F	Protection IP41

STANDARDS & CERTIFICATIONS

EN 81 European elevator safety	CE Compliant configurations	IEC 60034 Rotating electrical machines	Class F Insulation rating	IP41 Ingress protection
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NOTES

- Specifications stated at rated voltage and rated load. Operating conditions outside the rated envelope may shift performance.
- Drawings dimensioned in millimetres. Tolerances ±0.5 mm on mounting hole spacing. Refer to engineering for full GA drawings.
- Configurations beyond the published baseline (alternative voltages, groove geometries, sheave diameters) available on request.