drs

Dynamic Marine Systems

Ahead in stabilisation



270°

225

240

255°

315°

300°

285°

TECHNICAL SPECIFICATIONS & DIMENSIONS - ARG 175T



Download Video Brochure

Email: stabilisers@dmssalesuk.com Office: 0044 (0)2380 970 970 • Mobile: 0044 (0)7740 100 870 Web: www.dmssalesuk.com The ARG Gyro Range we represent is markedly different to most other gyros, it is simple to operate, easy to service and exceptionally robust.

A few key points about ARG Gyros are:

- 5 Years Extended Warranty
- Air Cooling
- Natural Precession Control
- Reliable, Robust & Uncomplicated
- No Complicated Hydraulics or Electrics
- No Vacuum Chamber
- No Water Cooling or Hull Openings
- Exceptionally Simple Operation
- Large 180 Degree Gimbal Angle
- Low Maintenance & Ultra-Life Bearings
- No Need to Remove for Servicing
- Exceptional Big Sea Performance
- Extremely Competitive Pricing

DMS Anti Rolling Gyro

ARG 175T (220 - 240 VAC) For Vessels from 10 - 30 Tonnes



DMS Anti Rolling Gyro

* Note: Selection of correct gyro unit can only be made following performance prediction from DMS/Gyro Manufacturer.

Anti Rolling Gyro Model:MSM-17500T-A1

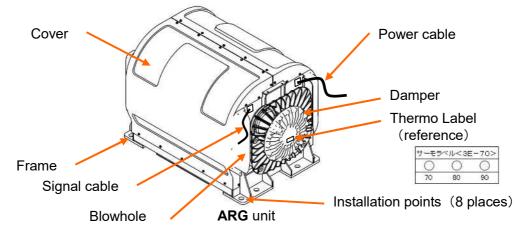
ARG 175T - GENERAL INFORMATION:

Item	Specifications		
Name	ARG 175T		
Model	MSM-17500T-A1		
Dimensions	630 mm (height) x 950 mm (width) x 620 mm (depth) 24.8 inches (height) x 37.4 inches(width) x 24.4 inches (depth)		
Weight	Approx. 380 kg / 838 lbs		
Power supply	Supplied exclusive Motor Driver(MAA-2000/4000A-A200) Single-phase 220 to 240 VAC 50/60Hz Three-phase 200 to 240 VAC 50/60Hz		
Ambient temperature	-10 to 40°C		
Power consumption * ¹⁾	Single-phase:Approx. 4.3 kW(Max) 3.5 kW(Max) (Steady-state) Three-phase:Approx. 4.0 kW(Max) 3.0 kW(Max) (Steady-state)		
Anti-Rolling Torque	Approx. 17,500 Nm (Max)		
Angular momentum	Approx. 2,900 - 3,500 Nms		
Rotational speed	Approx. 3,900 - 4,600 rpm		
Noise *2)	80 dBA maximum		
Vibration * ²⁾	1 m/s ² maximum		
Performance	 The ARG suppresses rolling motion of the ship. The ARG applies a principle that the Gyro torque (force) is generated by inclination of the flywheel rotating at high speed. The ARG stops automatically in abnormal conditions (excessive load, abnormal temperature, etc.). 		
Others	Start up duration to the rated speed: Approx. 35 minutes To stop the operation completely from the steady state: Approx. 60 minutes.		

*1) Power consumption varies with the customer generator.

*2) Measurement as per TOHMEI's specification.

The measurements data depend on measurements conditions (installation place, measurements method, etc.).

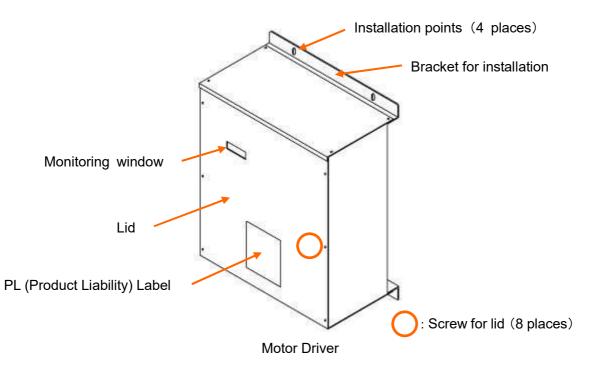


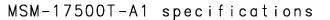
Anti Rolling Gyro Model:MSM-17500T-A1

ARG 175T - MOTOR DRIVER:

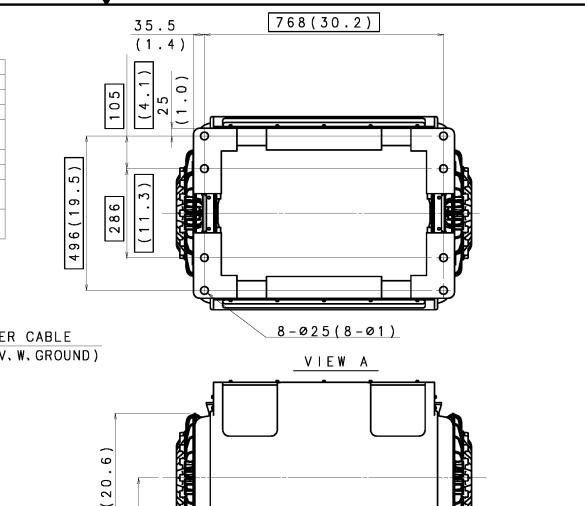
Item	Specifications
Model	MAA-2000/4000A-A200
Dimensions	400 mm (height) x 350 mm (width) x 189 mm (depth) 15.7 inches (height) x 13.8 inches (width) x 7.4 inches (depth)
Weight	Approx. 15 kg / 33.1 lbs
Control method	Inverter control
Ambient temperature	-10 to 40°C
Humidity	5 to 95% (with no condensation)
Pollution Degree	Do not be exposed to dust, direct sunlight, corrosive or flammable gases, oil mist, vapor or water drops. (Pollution Degree 2 (IEC60664-1))
Power supply * ³⁾	Single-phase 220 to 240VAC 50/60Hz Three-phase 200 to 240VAC 50/60Hz
Options (outer connecting terminal) (Please prepare by customer)	 Remote switch: connect to the Motor Driver to remote control the ARG operation (ON/OFF). The ARG can be switched on /off by this remote switch. Start check lamp: connect to the Motor Driver to make sure the ARG is in operation or not. Rotation rate check lamp: connect to the Motor Driver to make sure the ARG had reached the rated rotational speed (steady state) or not.
Others The ARG 's operating condition is checked by Monitoring window.	

*3) The Motor Driver is able to use both single-phase and three-phase. Please choose appropriate power input as needed.





Name	ARG175T
Model	MSM-17500T-A1
Angular momentum	Apporox. 3500Nms
Anti-Rolling Torque	Apporox. 17500Nm(MAX)
Dimensions	950mm (width)x620mm (depth)x630mm (height) 37.4inches (width)x24.4inches (depth)x24.8inches (height)
Weight	Apporox. 380kg/8381bs
Rotational speed	Apporox. 4600rpm
Power consumption (Steady-state)	Approx. 3.5kW / For single-phase Power supplye220-240VAC Approx. 3.0kW / For three-phase Power supplye200-240VAC
Power consumption (MAX)	Approx. 4.3kW / For single-phase Power supplye220-240VAC Approx. 4.0kW / For three-phase Power supplye200-240VAC



839(33.0)

950(37.4) MAX ▲A

unit:mm(inch)

名 将TITLE

Anti Rolling Gyro MSM-17500T-A1

