

TorqueMaster

Permanent magnet motors with a mechanical reducer with various gear ratios;
available with air or liquid cooling. A compact solution designed to couple to any propeller.

Air Cooled

reduction ratio $i = 1.59 - 2.01 - 2.41 - 2.87 - 3.35 - 3.97 - 5.01$

Propeller rpm = motor rpm/i

Including:

- Motor with mounting brackets and silent blocks
- Drop Box - 225 mm offset
- Vector control inverter IP65
- Precharge circuit
- DC-DC converter 12 Vdc
- 5m cable for display, lever, key
- Quick install / easy connect / plug and play
- Drop Box aluminum made - no cooling needed - low noise and low vibration
- Oil temperature sensor
- Elastic coupling between motor and Drop Box
- DIN120 output (SAE 1410 upon request) - "U" drive possible
- Key panel (OFF-ON-ECO)

Optional:

- Main switch and main fuse (Only for 48/96/144Vdc battery w/o internal switch and fuse)
- TF display
- Regeneration kit (Cable + key panel ON-OFF)
- "U" drive



Light & Medium Duty

PRODUCT CODE	DESCRIPTION	MOTOR SIZE	NOMINAL kW	INTERMITTENT kW	BATTERY Vdc	MOTOR rpm
BV101716A ...	TorqueMaster 20A	220-20	15	20	96 (102)	3000
BV102025A ...	TorqueMaster 25A	220-20	20	25	144 (140)	

(...) According to reduction ratio
() Transfluid battery

Liquid Cooled

reduction ratio $i = 1.59 - 2.01 - 2.41 - 2.87 - 3.35 - 3.97 - 5.01$

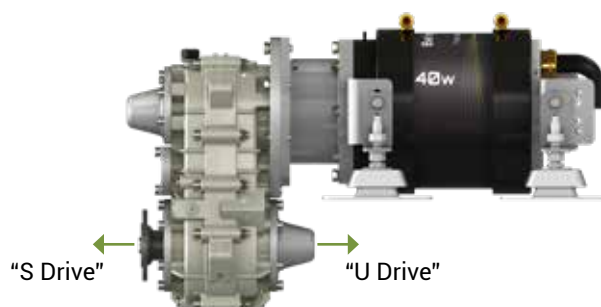
Propeller rpm = motor rpm/i

Including:

- As above
- Inlet and outlet liquid connections
- ▲ Throttle lever TFC - DC-DC converter 24 Vdc - Key panel (OFF-ON)
- Electric box (500x500mm) and wiring

Optional:

- As above



"S Drive"

"U Drive"

Medium & Heavy Duty

PRODUCT CODE	DESCRIPTION	MOTOR SIZE	NOMINAL kW	INTERMITTENT kW	BATTERY Vdc	MOTOR rpm
BV101740W ...	TorqueMaster 20W EVO	220-20 (s)	15	20	48 (51)	1500
BV730022WHS ...	TorqueMaster 22W EVO HS	220-20 (s)	17	22		3000
BV101716W ...	TorqueMaster 25W	220-20	20	25	96 (102)	
BV101717W ...	TorqueMaster 35W	220-20	30	35	144 (140)	
BV102045W ...	TorqueMaster 45W	220-35	35	45	288 (307)▲	
BV102065W ...	TorqueMaster 65W	300-50	50	65		
BV102100W ...	TorqueMaster 100W	300-75	75	100	384 (409)▲	
BV102130W ...	TorqueMaster 130W	300-75	100	130		

(...) According to reduction ratio
(s) Special
() Transfluid battery

• Complete the scope of supply with accessories from p. 19