

## Data Sheet

# THORX Motors

## CLM S



### Mobile Machine Management

Since the 1960s, Danfoss has been developing state-of-the-art components and systems for mobile machinery used in off-highway operations around the world. Danfoss has become a preferred supplier by offering the best of what really matters, the hardware inside your vehicle application.

### Product Highlights

The CLM S motor is designed to fit perfectly for construction machines with chain drives, such as Skid Steer Loaders, using existing and proven technology that Danfoss has refined to meet the high demand of today. These motors have been optimized by taking into account the following factors: physical size, lifetime, features, and installation cost.

### Application Development

The CLM S motor is a radial piston motor, also known as a cam lobe motor, and is most commonly used in closed circuit medium power propel applications. These motors are designed primarily to be combined with other products in systems to transfer and control hydraulic power.



### Features

#### Main Features

- Smooth two-speed operation
- A-style and universal mounting configurations
- Splined and Dual Sprocket shaft options
- Available in two frame sizes
- Proven reliability and performance
- Worldwide sales and service

#### OEM Benefits

- Designed to be the most compact drive solution to make installation easier
- Designed to be more power dense than comparable solutions from other suppliers
- Reduce wasted energy by having less heat generation that needs to be cooled away

#### Operator Benefits

- Experience a smoother speed changeover than any other motor in the market with THORX motors
- Superior machine handling with predictable speed changeover, no matter the oil temperature
- Achieve faster travel speeds and increase operator efficiency

Comprehensive technical literature is online at [www.danfoss.com](http://www.danfoss.com)

## Technical Data

THORX CLM S			
Frame size		4	8
Displacement range	cm <sup>3</sup> [in <sup>3</sup> ]	160 - 400 [9.8 - 24.4]	470 - 820 [28.7 - 50.0]
Maximum speed	rpm	875	465
Maximum pressure	bar [psi]	400 [5,800]	
Maximum theoretical torque	Nm [lbf·in]	2,670 [23,630]	5,480 [48,500]
Brake torque	Nm [lbf·in]	2,200 [19,475]	
Flushing valve	lpm [gpm]	2.5 - 12.5 [0.7 - 3.3]	
Optional features		Two-speed Speed Sensor	

## World class performance

Achieve better performance at low RPM and improve your high-speed efficiency with THORX motors. High performance and efficiency mean more is going directly to power, resulting in less heat to cool away.

## Smooth two-speed operation

Improve two-speed shifting with THORX motors. Our design delivers as much as 70% shock reduction and a consistent and short response time, even at low temperatures. Thanks to THORX motors' market leading high-speed efficiency, you can also achieve faster travel speed.

## Leading on length and high power density

Improve robustness of chains and achieve easier integration and assembly of the machine thanks to the compact size of the THORX motors. Our design provides easier integration and assembly.

## Integral multi-disc parking brake

THORX motors offer the strongest parking brake in the market. The brake is designed to withstand 100 dynamic emergency stops during its lifetime. The spring applied multi-disc brake design ensures durability.

## Wide program

THORX motors features a wide range of mounting interfaces and shaft options to suit perfectly onto your machine.



**THORX  
CLM 4 S**

Minimum  
221 mm



**THORX  
CLM 8 S**

Minimum  
215 mm\*

\*Depends on mounting flange