



Sunfab now expands the SCM family and offers a two-bolt flange, SAE B2 012-034.

The design features double tapered roller bearings, which permits high shaft loads and gives superb speed performance.

Type		012	017	025	034	
Displacement	cm <sup>3</sup> /rev.	12.6	17.0	25.4	34.2	
Working pressure	<i>max. intermittent</i>	40	40	40	40	
	<i>max. continuous</i>	35	35	35	35	
Speed	<i>max. intermittent</i>	8250	8250	6500	6500	
	<i>max. continuous</i>	7500	7500	5900	5900	
	<i>min. continuous</i>	300	300	300	300	
		rpm	300	300	300	300
Power	<i>max. intermittent</i>	50	70	80	110	
	<i>max. continuous</i>	20	25	40	55	
Start torque	theoretical value	Nm/MPa	2.0	2.7	4.0	5.4
Mass moment of inertia	( x 10 <sup>-3</sup> )	kg m <sup>2</sup>	0.9	0.9	1.1	1.1
Weight		kg	9.5	9.5	9.5	9.5

Data concerning RPM are based on maximum permitted peripheral speed for the tapered roller bearings.

Intermittent power data are based on maximum continuous speed and maximum working pressure.

Continuous power data are based on maximum output power without external cooling of the motor housing.

Intermittent duty is defined as follows: max 6 seconds per minute, e.g. peak RPM when unloading or accelerating.

### Choice of shaft seal

Motor SCM	Code	Temp. °C	Max. housing pressure MPa at rpm							
			1000	2000	3000	4000	5000	6000	7000	8000
012-034	N	75	0.55	0.27	0.18	0.14	0.11	0.09	0.08	0.07
	H	75	2.46	1.23	0.82	0.61	0.49	0.41	0.35	0.31
	V	90	0.55	0.27	0.18	0.14	0.11	0.09	0.08	0.07

Code according to Versions, main data.

Subject to design modifications without notice

Factors affecting the choice of shaft seal include the hydraulic motor housing pressure and the drainage oil temperature.

The drainage oil should have a maximum temperature of 75 °C with a Nitrile shaft seal and 90 °C with a Viton shaft seal. These temperatures must not be exceeded.

## Versions, main data

Example

**M-034 W/N-B2 S / U / S**

Type:

M Motor with fixed displacement

Size:

012 Displacement cm<sup>3</sup>/rev.  
017  
025  
034

Direction of rotation:

W Independent

Shaft seal:

N Nitrile  
H Nitrile, high pressure  
V Viton, high temperature

Connection cover:

S 40° to the shaft center line  
K Combined (only available with ISO G thread)

Connections:

U UN thread  
G ISO G thread

Type of shaft:

S Spline shaft (SAE J498b)  
13T 16/32 30° CLASS 5

K Key shaft (SAE J744)  
Ø25.4

Mounting flange:

B2 SAE B (SAE J744)

SCM 012-034 SAE B

SCM 012-034 SAE B

SCM 012-034 SAE B

SCM 012-034

SCM 012-034

## Dimensions SCM 012-034 SAE B2

