



Motor SCM 012-034

SAE B2



This is a supplement to the SCM-family since Sunfab now offers a two bolt flange, SAE B2 size 012-034. The design has an up-graded bearing solution with two interacting tapered roller bearings. This means that high axial forces can be applied at high speeds.

Type		012	017	025	034
Displacement	cu in/rev.	0.77	1.04	1.55	2.09
Working pressure	<i>max. intermittent</i>	5800	5800	5800	5800
	<i>max. continuous</i>	5075	5075	5075	5075
Revolutions	<i>max. intermittent</i>	8250	8250	6500	6500
	<i>max. continuous</i>	7500	7500	5900	5900
	<i>min. continuous</i>	300	300	300	300
Power	<i>max. intermittent</i>	67	94	107	147
	<i>max. continuous</i>	27	34	54	74
Start torque theoretical value	lb-ft/1000 psi	10	14	20	27
Mass moment of inertia (x 10 ⁻³)	lb-ft-sec ²	0.7	0.7	0.8	0.8
Weight	lb	21	21	21	21

Data concerning RPM are based on maximum permitted peripheral velocity 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.

Motor SCM	Code	Temp. °F	Max. housing pressure psi at RPM							
			1000	2000	3000	4000	5000	6000	7000	8000
012-034	N	167	80	39	26	20	16	13	12	10
	H	167	357	178	119	88	71	59	51	45
	V	194	80	39	26	20	16	13	12	10

Subject to design modifications without notice

Factors affecting the choice of shaft seal include the hydraulic motor housing pressure and the drainage oil temperature. Code according to Versions, main data.

The drainage oil should have a maximum temperature of 167 °F with a Nitrile shaft seal and 194 °F with a Viton shaft seal. These temperatures must not be exceeded.

Versions, main data

Example

M-034 W/N-B2 S / U

Type:

M Motor with fixed displacement

Size:

012
017
025
034

Direction of rotation:

W Independent

Shaft seal:

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

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Connections:

U UN thread
G BSP thread

Type of shaft:

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

K Key shaft (SAE J744)
Ø 1.00

Mounting flange:

B2 SAE B (SAE J744)

Dimensions

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