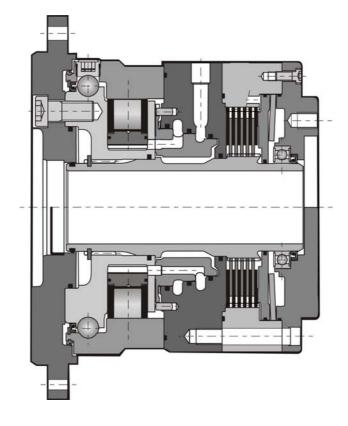
# MK09 Compact motors





### TECHNICAL CATALOG





Motor Inertia 0.3 kg.m<sup>2</sup>

C	Cm <sup>3</sup> /tr [cu.in/rev.]		at 1000 PSI	Max.power <b>0</b> kw [HP]	Max. speed <b>0</b> tr/min <i>[RPM]</i>	Max. pressure <sub>bar</sub> <i>[PSI]</i>
8	667 [40,7]	1 061	[539]		100	
9	750 [45,7]	1 193	[606]	30 [40]	90	400 [5 802]
0	833 [50,8]	1 324	[674]	50 [40]	80	
2*	1 000 <i>[61,0]</i>	1 590	[809]	Ī	65	•

\* : Comes with Diamond<sup>™</sup> option

# CONTENT

Chassis mounting

Brakes

**OPTIONS** 

Hydraulic connections



# MODEL CODE 4 CHARACTERISTICS 7 Dimensions for standard 1-displacement motor 7 Rotating fastening screw 7 Load curves 8 Efficiency 8

Characteristics

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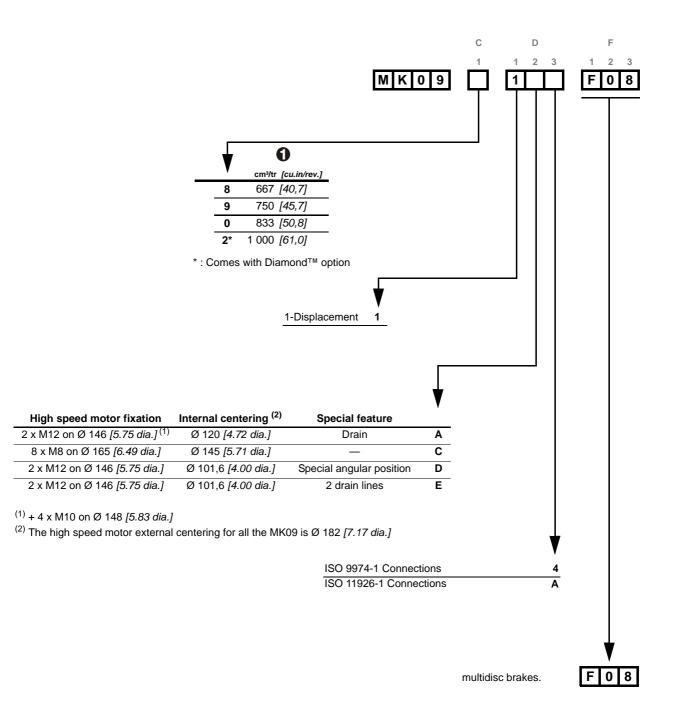
Model code

\_\_\_\_\_

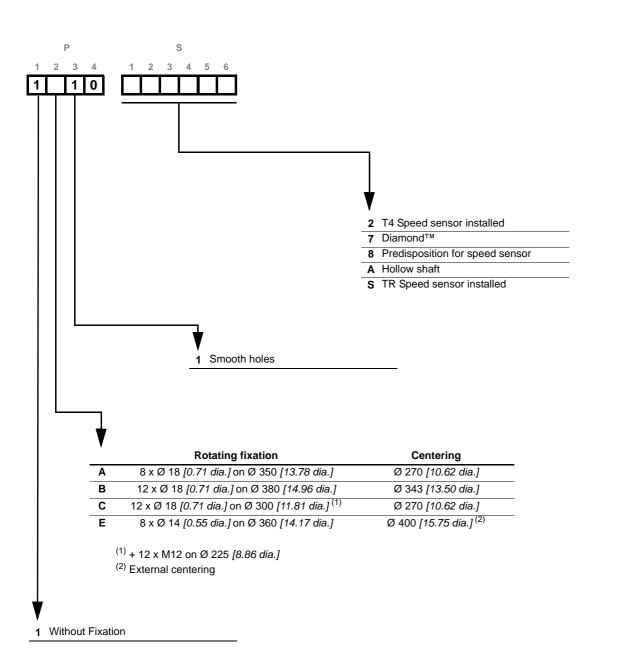
Options

19/10/2020

# MODEL



# CODE





### Methodology :

This document is intended for manufacturers of machines that incorporate Poclain Hydraulics products. It describes the technical characteristics of Poclain Hydraulics products and specifies installation conditions that will ensure optimum operation. This document includes important comments concerning safety. They are indicated in the following way:



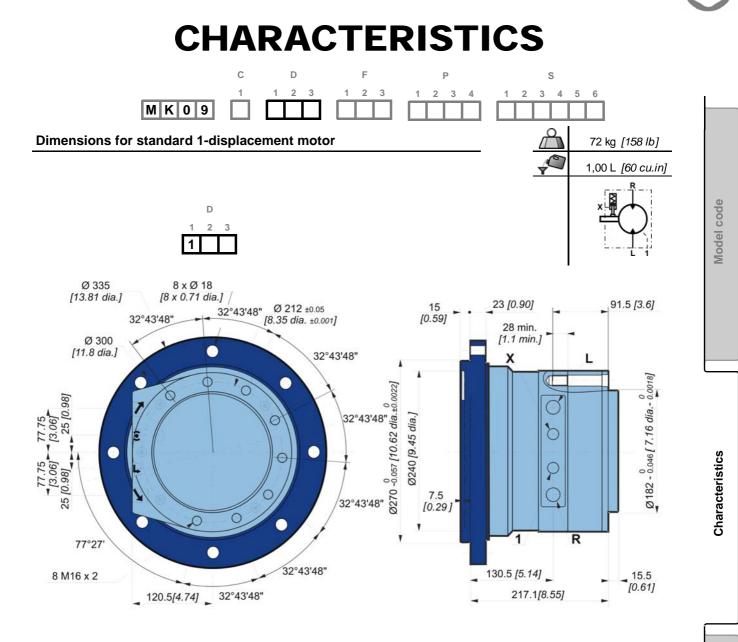
Safety comment.

This document also includes essential operating instructions for the product and general information. These are indicated in the following way:

	Essential instructions.
Ĩ	General information .
C	Information on the model number.
$\hat{\Box}$	Weight of component without oil.
Y	Volume of oil.
	Units.
	Tightening torque.
	Screws.
Â	Information intended for Poclain-Hydraulics personnel.

The views in this document are created using metric standards. The dimensional data is given in mm and in inches (inches are given in brackets in italic)





### **Rotating fastening screw**





the adaptation plates can be specified by the customer. Please consult your Poclain Hydraulics Applications Engineer.

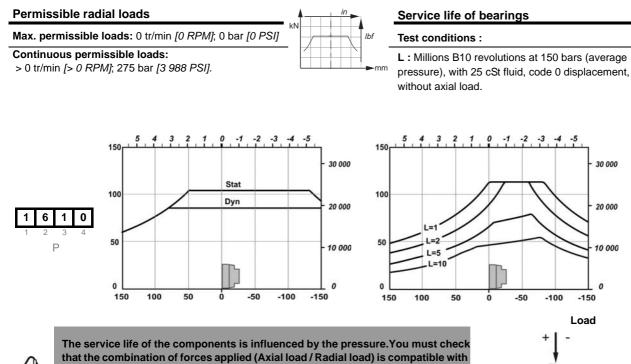
Options

### Load curves

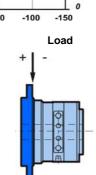
30 000

20 000

10 000



that the combination of forces applied (Axial load / Radial load) is compatible with the permissible loads for the components, and that the resulting service lives of these components complies with the application's specifications. For an accurate calculation, consult your Poclain Hydraulics application engineer.



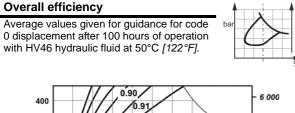
### Efficiency

300

200

100

0 10 20

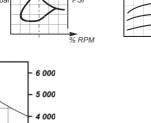


0.92

50 60 70 80

30 40

0.93



3 000

2 000

1 000

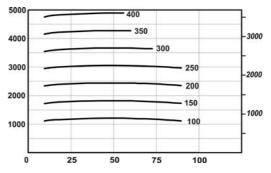
90 100

Actual output torque

lb.ft

tr/min

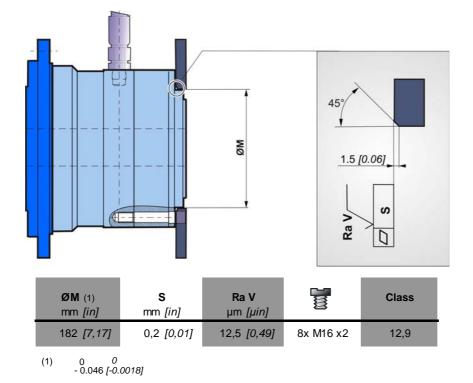
RPM





For a precise calculation, consult your Poclain Hydraulics application engineer.

### **Chassis mounting**

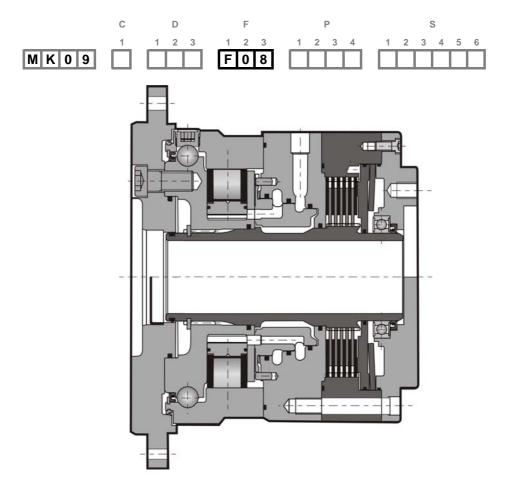


### Hydraulic connections

$M \underbrace{K 0 9}_{C} 1 2 3 4 5 6$								
↓ ↓	Old standards	Standards	Power supply	Drainage	Control of brake			
v			R,L	1	х			
4	DIN 3 852 NFE 48 050	ISO 9 974-1	M22 x 1.5	M18 x 1.5	M16 x 1.5			
Α	SAEJ514	ISO 11 926-1	7/8" - 14 UNF	3/4" - 16 UNF	9/16" - 18 UNF			
		the connections ation guide" N° I		jues, see the bro	ochure			

You are strongly advised to use the fluids specified in brochure "Installation guide" N° B61352L.

### Brakes



### Brake principle

This is a multidisc brake which is activated by a lack of pressure. The spring exerts a force on the piston, which resses on the fixed and mobile discs, and immobilizes the shaft. The braking torque decreases in linear proportion to the brake release pressure.

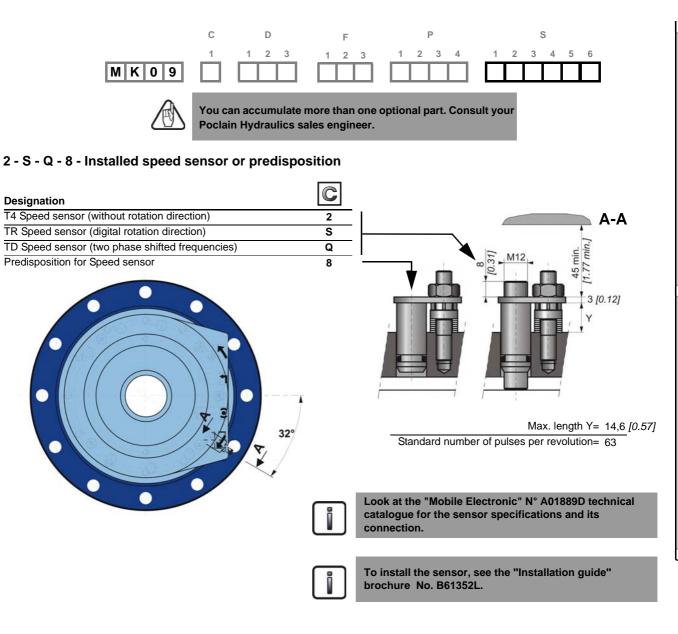
Parking brake torque with 0 bars in the housing (new brake)	6 050 N.m	[4 460 lb.ft]
Emergency dynamic braking torque <i>with 0 bars in the housing</i> (gives a maximum of 10 emergency braking operations)	3 930 N.m	[2 900 lb.ft]
Residual parking torque at 0 bars in the housing*	4 535 N.m	[3 340 lb.ft]
Minimum brake release pressure	14 bar	[203,1 PSI]
Maximum brake release pressure	30 bar	[435,1 PSI]
Capacity	60 cm <sup>3</sup>	[3,7 cu.in]
Brake release capacity	25 cm <sup>3</sup>	[1,5 cu.in]

\* After being used as emergency brake



Do not run-in the multidisc brakes.

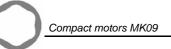
## **OPTIONS**



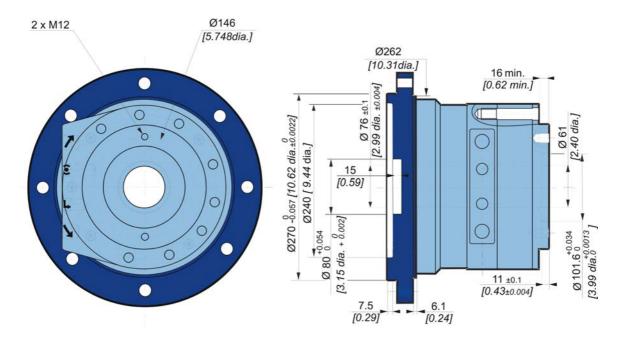
### 7 - Diamond™

Special treatment of the motor core which considerably increases its strength, making the motor much more tolerant to temporary instances of the operating conditions being exceeded.

Options



### A - Hollow shaft



### Mounting bolt for high speed motor



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Poclain Hydraulics reserves the right to make any modifications it deems necessary to the products described in this document without prior notification. The information contained in this document must be confirmed by Poclain Hydraulics before any order is submitted.

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