

Technical drawing of a Marathon Motors MAP90S6A IM2041 motor. The drawing includes a front view, a side view, and a cross-section A-A.

Front View Dimensions:

- Top flange: 96 (total), 48 (radius)
- Shaft diameter: $\phi 12$
- Shaft length: 108 (total), 141 (to center)
- Base flange: 140 (total), 41 (radius), 13 (thickness)
- Base height: 14 (total), 90 (to center)
- Base diameter: $\phi 200$
- Base hole diameter: $\phi 130 j6$
- Base hole position: 50 (from center), 56 (from base)
- Base hole diameter: 8 h9
- Base hole length: 27
- Base hole diameter: $\phi 24 h9$

Side View Dimensions:

- Top flange: 96 (total), 48 (radius)
- Shaft diameter: $\phi 12$
- Shaft length: 108 (total), 141 (to center)
- Base flange: 140 (total), 41 (radius), 13 (thickness)
- Base height: 14 (total), 90 (to center)
- Base diameter: $\phi 200$
- Base hole diameter: $\phi 130 j6$
- Base hole position: 50 (from center), 56 (from base)
- Base hole diameter: 8 h9
- Base hole length: 27
- Base hole diameter: $\phi 24 h9$

Cross-section A-A Dimensions:

- Top flange: 96 (total), 48 (radius)
- Shaft diameter: $\phi 12$
- Shaft length: 108 (total), 141 (to center)
- Base flange: 140 (total), 41 (radius), 13 (thickness)
- Base height: 14 (total), 90 (to center)
- Base diameter: $\phi 200$
- Base hole diameter: $\phi 130 j6$
- Base hole position: 50 (from center), 56 (from base)
- Base hole diameter: 8 h9
- Base hole length: 27
- Base hole diameter: $\phi 24 h9$

Table 1: General Tolerance

Linear Dim.	Acc.	DIN ISO 2768-1 m
0.5 - 3	± 0.1	> 120 - 400 ± 0.5
> 3 - 6	± 0.1	> 400 - 1000 ± 0.8
> 6 - 30	± 0.2	> 1000 - 2000 ± 1.2
> 30 - 120	± 0.3	> 2000 - 4000 ± 2

Table 2: Motor Specifications

Motor Type	MAP90S6A
Mounting	IM2041 / FF165
Cooling	IC411
Protection	
DO NOT SCALE DRAWING	
PAPER SIZE A3	
SCALE: 1:2	
SHEET 1 OF 1	

DRAWING NUMBER:	REVISION
MAP90S6A IM2041	
DESCRIPTION:	
Outline drawing	
OPTIONS:	

DATE	GENERAL TOLERANCE ON MACHINED PARTS: LINEAR DIM. ACC. DIN ISO 2768-1 m			ALL DIMENSIONS IN mm ACC. IEC/EN 60072-1			DO NOT SCALE DRAWING
GEN TOLERANCE OF FORM AND POSITION ON MACHINED PARTS: CLASS H - DIN ISO 2768-2	0.5 - 3	± 0.1	> 120 - 400 ± 0.5	THIRD ANGLE PROJECTION 	MOTOR TYPE MAP90S6A	COOLING IC411	PAPER SIZE A3
	> 3 - 6	± 0.1	> 400 - 1000 ± 0.8		MOUNTING IM2041 / FF165	PROTECTION	SCALE: 1:2
	> 6 - 30	± 0.2	>1000 - 2000 ± 1.2				SHEET 1 OF 1
	> 30 - 120	± 0.3	>2000 - 4000 ± 2				