

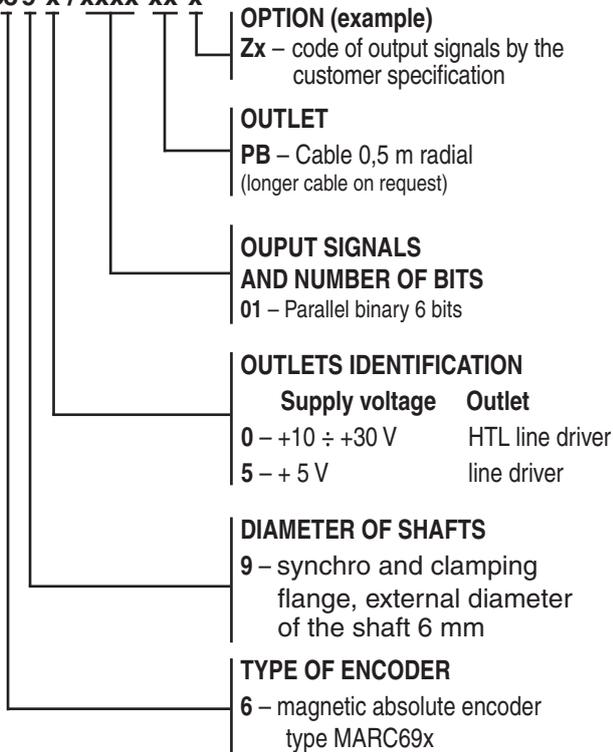
Magnetic absolute encoders MARC690 and 695

MARC690 / MARC695 – synchro and clamping flange, external diameter of the shaft 6 mm

The magnetic single turn absolute rotary encoders MARC690 and MARC695 are 6 bit encoders with output code modified from 512 positions according a customer specification and working on magnetic Hall Effect principle. Electrical signals provide information of bilateral position of two mechanical parts, angle turn or rotary motion. A typical used in the tool heads, positioning automation, electronic cam, etc..

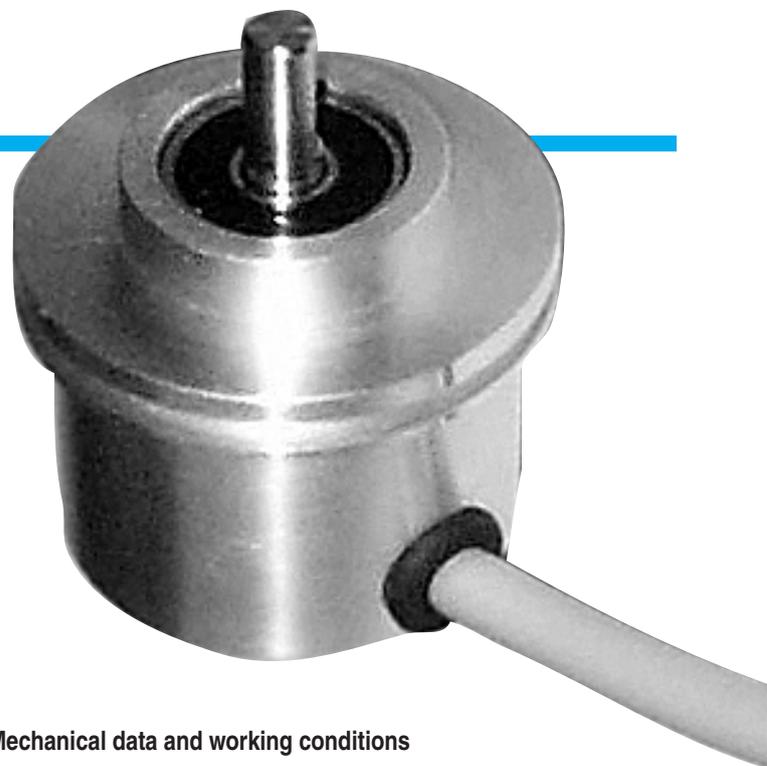
Type identification

MARC69 x /xxxx xx x



Technical data

ELECTRICAL DATE / TYPE	MARC690	MARC695
Supply voltage max. U_N (V)	from +10 to +30	+5 ± 5%
Supply current max. I_N (mA)	60@30V	50
Output frequency max. F_o (kHz)	30	30
Output max. I_o (mA)	± 25	± 20
Output	HTL line driver	line driver
U_{OH} (V) $U_N = 30$ V $I_{ON} = 10$ mA	$U_N - 3$	>2,5
U_{OL} (V) $U_N = U_o = 30$ V $I_{OL} = -10$ mA	<1,2	0,4
I_{OH} (mA) $U_N = U_o = 30$ V		–
I_{OL} (mA) $U_N = U_o = 30$ V		–



Mechanical data and working conditions

Rotational speed max.	5000 min. ⁻¹
Angular acceleration max.	40000 rad.s ⁻²
Moment of inertia of mechanical parts max.	5 g.cm ² ± 10 %
Vibration according to FCČSN345791	10g _n (10 to 2000 Hz)
Shock max.	50g _n (100 ms)
Shaft loads MARC690, 695	– axial max. 10 N – radial max. 20 N
Working temperature	– 25° to + 80° C
Humidity relative / absolute	max. 95 % / max. 40 g.m ⁻³
Atmosphere (without aggressive substances)	73,3 to 126,6 kPa
Type of protection	IP65
Weight MARC690, 695	ca. 0,15 kg
Length cable max.	50 m

Output signals

– example code of output signal for tool head positing

- 0 – synchronization
- 1:4 – binary code positions 1 to 8
- 5 – parity

