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What is "[Embedded - Microcontrollers](#)"?

"[Embedded - Microcontrollers](#)" refer to small, integrated circuits designed to perform specific tasks within larger systems. These microcontrollers are essentially compact computers on a single chip, containing a processor core, memory, and programmable input/output peripherals. They are called "embedded" because they are embedded within electronic devices to control various functions, rather than serving as standalone computers. Microcontrollers are crucial in modern electronics, providing the intelligence and control needed for a wide range of applications.

Applications of "[Embedded - Microcontrollers](#)"

Details

Product Status	Active
Core Processor	PIC
Core Size	8-Bit
Speed	20MHz
Connectivity	-
Peripherals	Brown-out Detect/Reset, POR, WDT
Number of I/O	17
Program Memory Size	1.5KB (1K x 12)
Program Memory Type	FLASH
EEPROM Size	64 x 8
RAM Size	68 x 8
Voltage - Supply (Vcc/Vdd)	2V ~ 5.5V
Data Converters	A/D 8x8b
Oscillator Type	Internal
Operating Temperature	-40°C ~ 85°C (TA)
Mounting Type	Surface Mount
Package / Case	20-SSOP (0.209", 5.30mm Width)
Supplier Device Package	20-SSOP
Purchase URL	https://www.e-xfl.com/product-detail/microchip-technology/pic16f527-i-ss

Starting/running torque 2.5 mNm 0.16 watts Part number 82340195



- Constant speed dependent on supply frequency
- Direction of rotation controlled by long-life mechanical anti-return
- Permanent magnet rotor with 5 pole pairs
- Toughened shaft turning on two moulded polyamide bearings
- UL, CSA (class B) - VDE approved.

Part numbers

	Type	Type	Direction of rotation	Voltages/Frequencies
82 340 195	0.16 watts	82 340 0	Anti-clockwise	230 V 50 hz

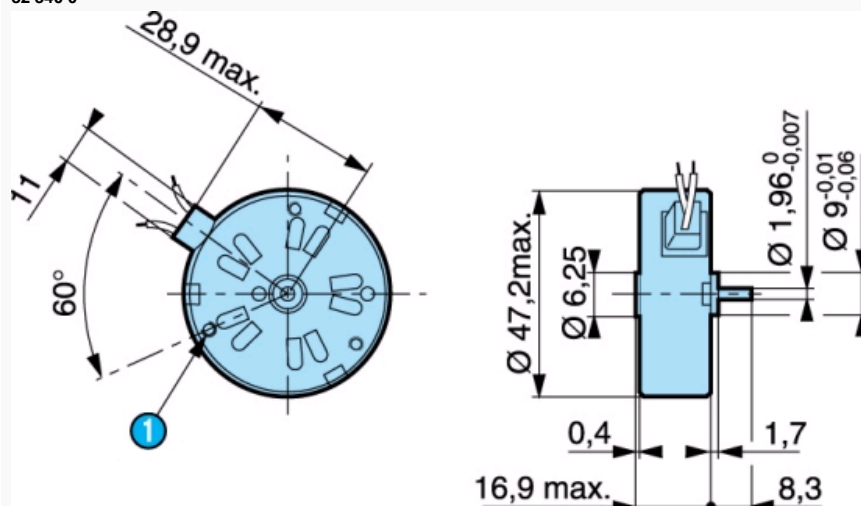
Specifications

General characteristics

Base speed of motor (rpm)	600
Absorbed power (W)	3
Usable Power (W)	0,16
Starting/running torque (mNm)	2,5
Stall torque (mNm)	3,3
Temperature rise (°C)	55
Ambient temperature (°C)	-5 → +60
Maximum inertial load that can be moved (g.cm ²)	4,6
Number of offload starts 10 ⁶	10
Max. reverse rotation angle (°)	360
Insulation resistance (MΩ)	75 x 10 ³
Breakdown voltage (V-50 Hz)	1800 - 1 s
Weight (g)	110
Wires length mm (approximately)	250
Protection rating	IP30

Dimensions (mm)

82 340 0



N°	Legend
1	3 fixing holes ØM2 at 120 ° on r=19.5 max. depth 2.4 mm

Product adaptations



- Different voltages available
- Pinion on output shaft
- Special cable lengths
- Special connectors