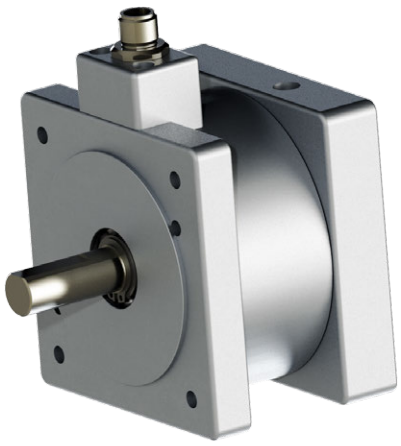
EB34-140-140-D-C
ELECTRO-MAGNETIC BRAKE

RoHS

NEMA34 electro-magnetic brake

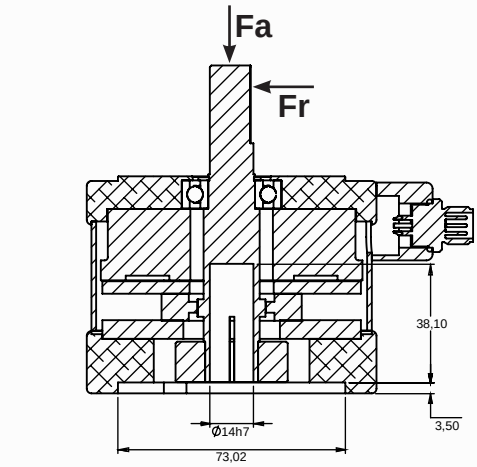
The EB34 is an negative single disc electromagnetic brake, closed by a spring mechanism and equipped with NEMA 34 flange for an easy and quick mounting. It is powered at 24Vdc through an M12 circular connector. It is used for a dry run as an holding brake.

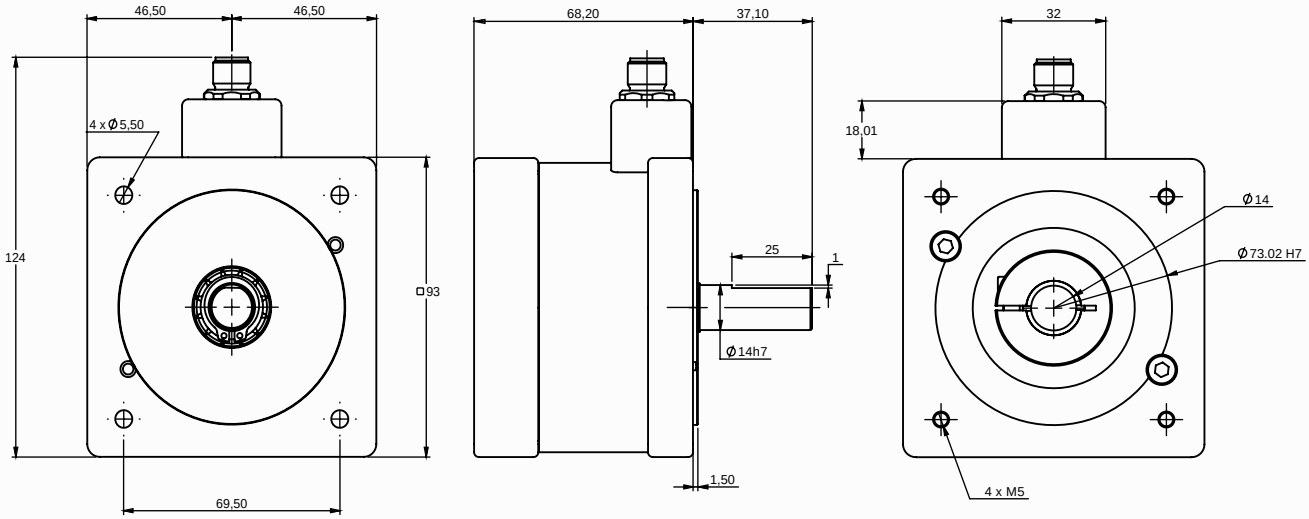
Characteristics		U.M.	EB34
Braking torque		Nm	3,0
Max output torque (Nm)		Nm	13
Max axial force (Fa)		N	10
Max radial force (Fr)		N	10
Tripping time	Insertion	ms	17
	Disinsertion	ms	35
Maximum speed		RPM	3000
Inertia		gcm^2	70
Operating temperature range		°C	-10 .. +90
Ambient temperature range		°C	-10 .. +50
Humidity range (no condensation)		%HR	95% or less
Weight		g	1850
Supply		V_{dc}	24
Power		W	24
Freewheeling diode	Integrated in the connector (only mod. EB34-140-140-D-C)		



CAUTION: the EB34 is an holding brake. It must be activated only when the motor is already stopped.

Mechanical dimensions





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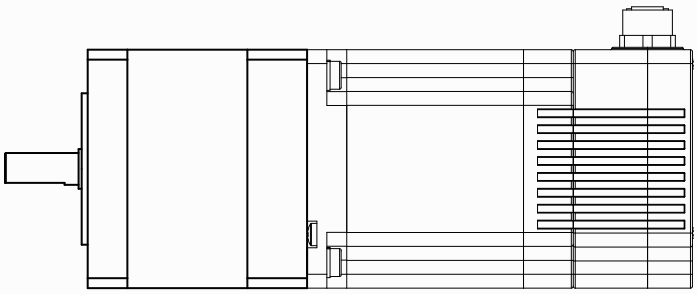
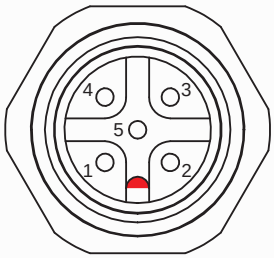
Mounting example

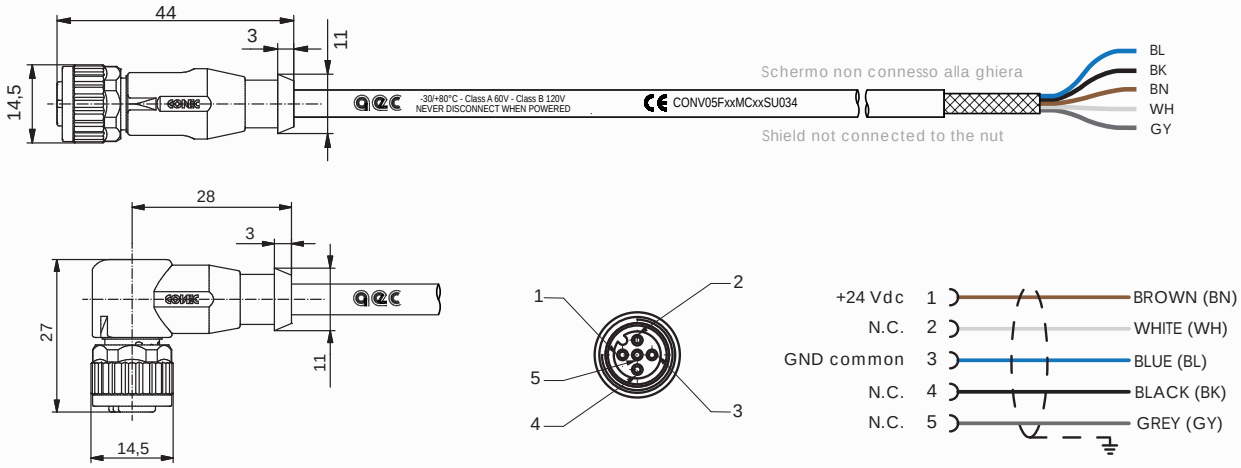


M12 5 pins male connector



PIN	Description
1	+24 Vdc
2	N.C.
3	GND common
4	N.C.
5	N.C.

Cable wiring



ONLY FOR CODE EB34-140-140-C

CAUTION: When the voltage to the coil is switched off, some overvoltages may be generated and may result in damages to other electronic devices.

ALWAYS apply a freewheeling diode (1N4007 or similar) between the +24Vdc voltage and the common.

During wiring, pay attention to the polarity of the power supply. An inversion of the polarity may result in damages to the equipment.