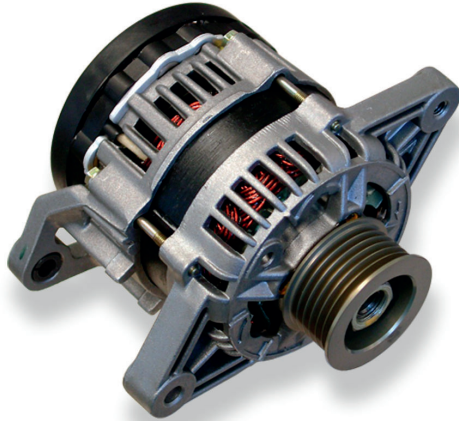


Alternator GCM1

www.bosch-motorsport.com



BOSCH
Invented for life



- ▶ 3,400 g
- ▶ 130 to 140 A
- ▶ Clockwise or anticlockwise rotation
- ▶ Special lightweight aluminum pulley available

This alternator is modified for motorsport demand and splash protected. The stator windings are handmade and optimized for higher current output; the rotor is extra fine balanced and double impregnated. The alternators are e.g. used in Nascar series. Clockwise and anticlockwise versions are possible, modifications are available on request.

Application

Ambient temperature range	-30 to 90°C
Vibration protection	high
Installation without rubber mounting.	

Technical Specifications

Mechanical Data

Case material	aluminum
Weight	3,400 g
Current regulator unit	integrated
Max. rotations	18,000 x 1/min
Diameter	108 mm

Length without shaft stub	128 mm
Distance between mounting points	154 mm

Electrical Data

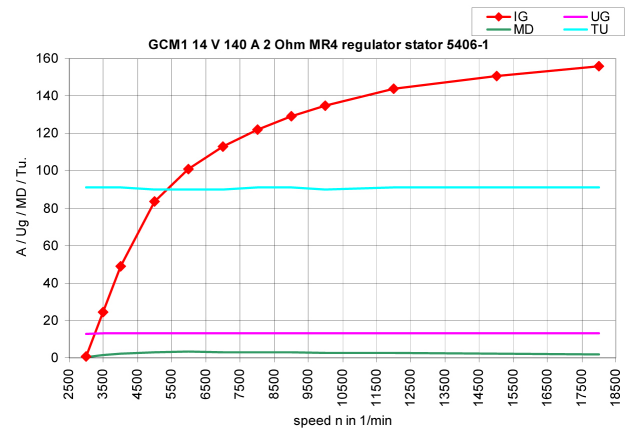
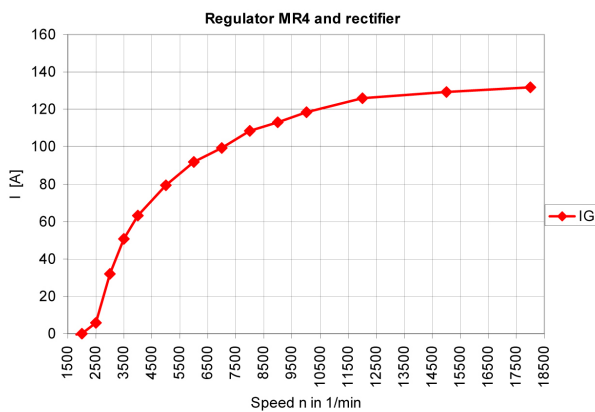
Rated current	130 A/140 A
Output voltage	13.5 V
Cut-in speed	3,000 x 1/min
Coupling	screws
Battery B+	M6
Tightening torque at B+	14 Nm
Control lamp D+	flat-pin connector, see drawing
Internal D+ resistor	only GCM1 140 A Nascar

Characteristic 130 A

Rpm [1/min]	I_c [A] at 90°C
2,000	0
2,500	6
3,000	32

3,500	51
4,000	63
5,000	80
6,000	90
7,000	98
8,000	105
9,000	111
10,000	116
12,000	121
15,000	127
18,000	131

15,000	151
18,000	156



Characteristic 140 A / Nascar

Rpm [1/min]	I _G [A] at 90°C
2,000	0
2,500	0
3,000	1
3,500	25
4,000	49
5,000	83
6,000	101
7,000	113
8,000	122
9,000	129
10,000	135
12,000	144

Installation Notes

An external cooling can contribute to increase the performance. It will only be effective if the incoming air is 30°Kelvin cooler than the ambient air. Otherwise, the restriction of air flow will negate any cooling benefits. If these conditions are met, the cooling air should be distributed over the center axis at the rear of the alternator for optimal cooling. The alternator fans are not able to generate negative pressure. It is possible to use external blower to support the alternator. Debris at alternator cooling area can reduce cooling effect. This could also shorten the alternator service life. Installation without rubber mounting.

Ordering Information

130 A anticlockwise rotation
Order number **F 02U V01 383-01**

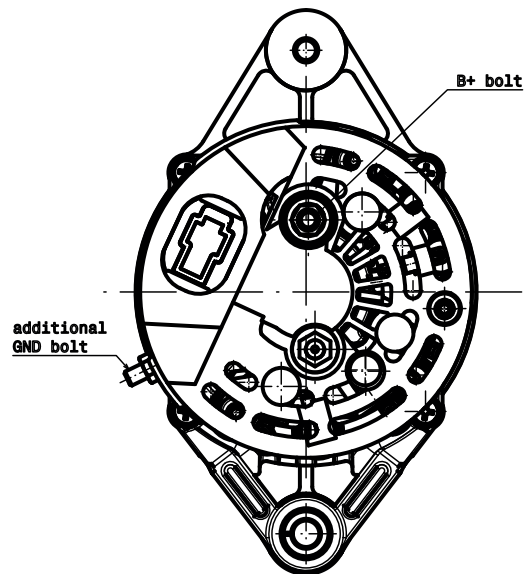
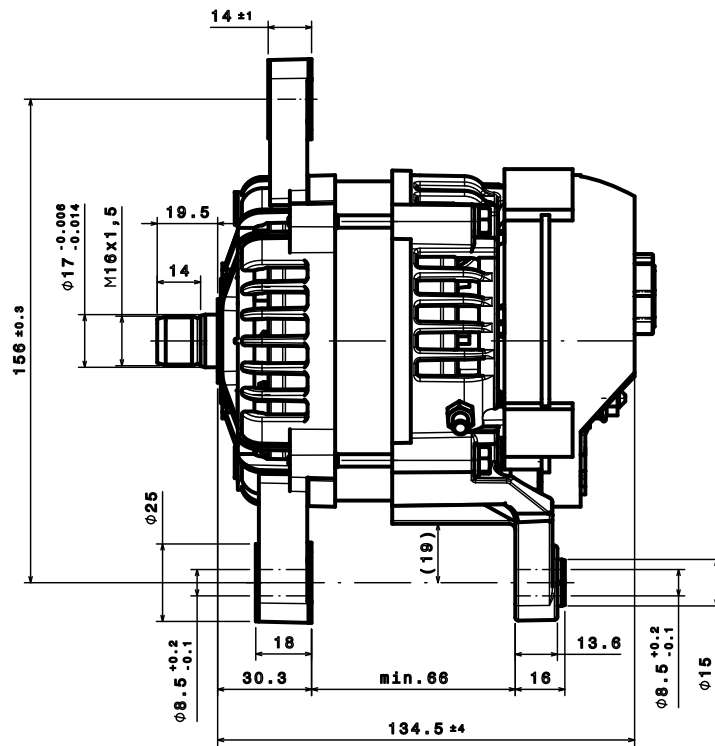
130 A clockwise rotation
Order number **B 261 208 605-03**

140 A anticlockwise rotation
Order number **F 02U V01 399-01**

140 A clockwise rotation
Order number **B 261 208 603-05**

140 A Nascar clockwise rotation
Order number **F 02U V00 004-07**

Dimensions



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