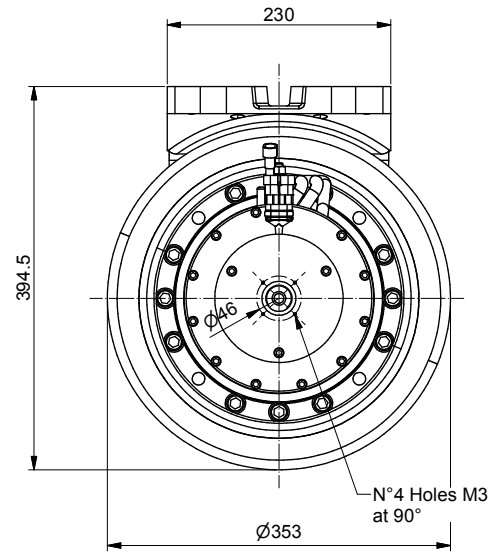
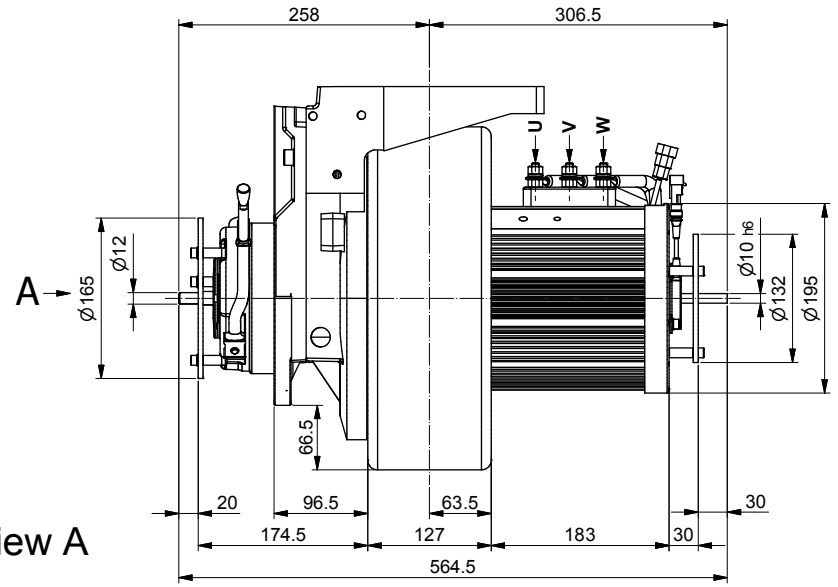
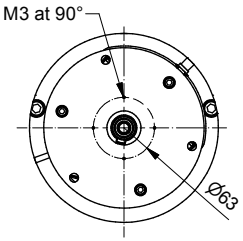
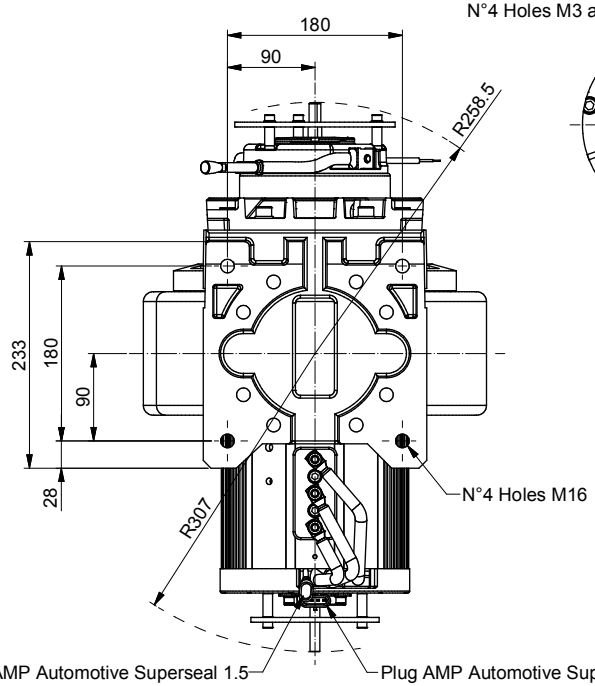
C.F.R. srl Modena - Italy	AC MOTOR IN WHEEL UNIT	CODE MRT36.A0100	Rev.: / Date:

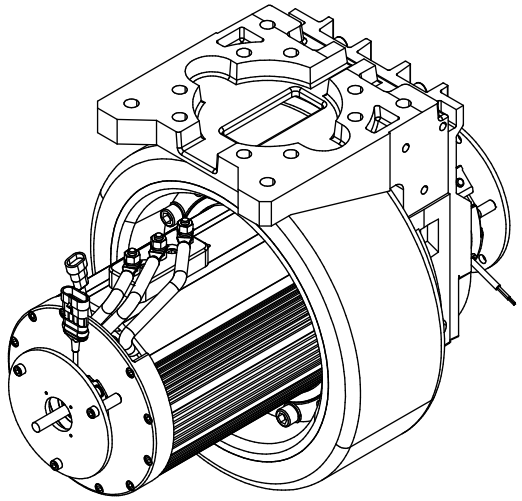




View A







Plug AMP Automotive Superseal 1.5
Series P2 282104-1
Thermic sensor STS1 U129

Plug AMP Automotive Superseal 1.5
Series P4 282106-1
Encoder ES 64 PPR

Traction motor data		
Type : AC Asynchronous		
Power (S2 - 60 min)	W	4000
Motor voltage (~3)	V	27
Battery voltage	V	48
Speed	Rpm	2200
Frequency	Hz	80
Current	A	110
Torque	Nm	17.4
Enclosure	IP	44

Traction gear data		
Gear ratio	i	1:34.2
Max accel. and braking torque	Nm	1200
Nominal wheel torque	Nm	416
Max load on vulkollan wheel	Kg	2200
Max load on poliurethan wheel	Kg	
Max load on solid rubber wheel	Kg	
Brake torque	Nm	32
Lubrication		Grease

Total Weight	Kg	121

Data : Date : 20/06/2018	Scala : Scale : 1 : 5.5	A3
Dis : Drawn : L.L.		

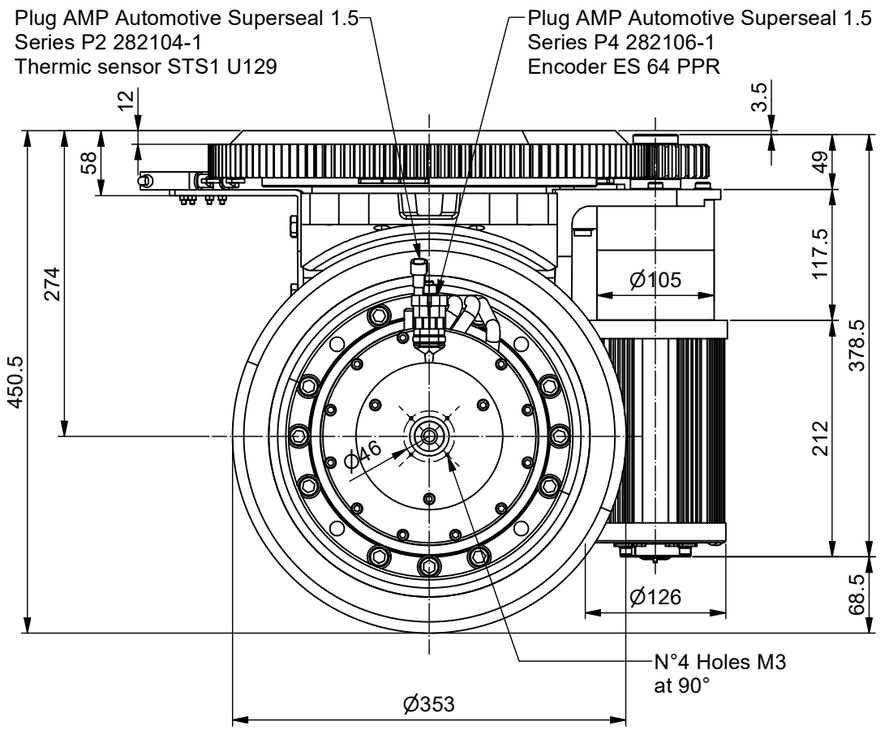
C.F.R. srl
Modena - Italy

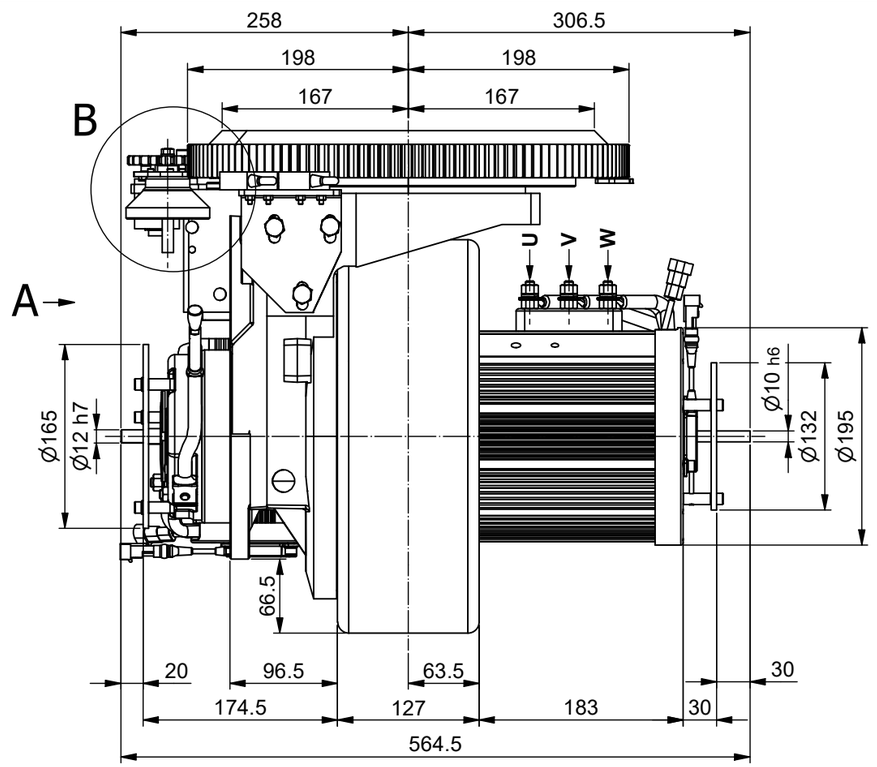
AC MOTOR IN WHEEL UNIT

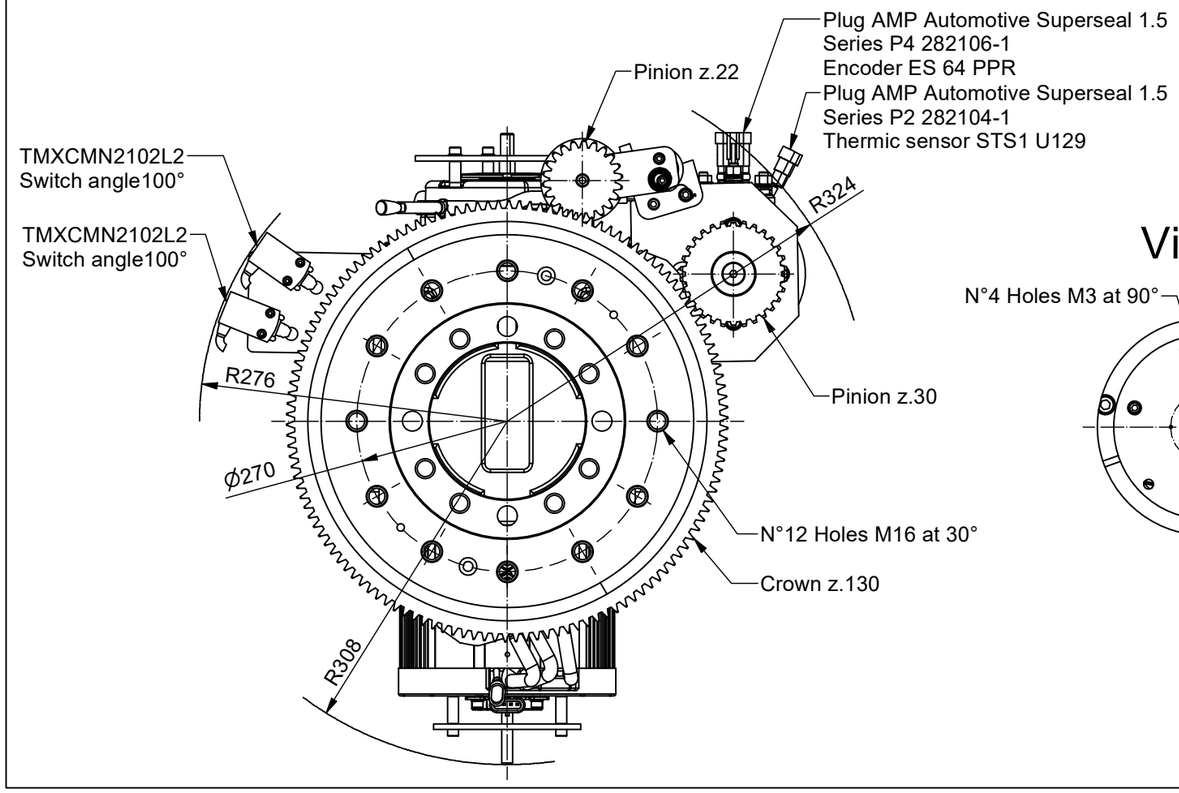
CODE MRT36.A0101

Rev.:

Date:

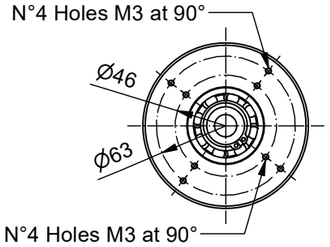




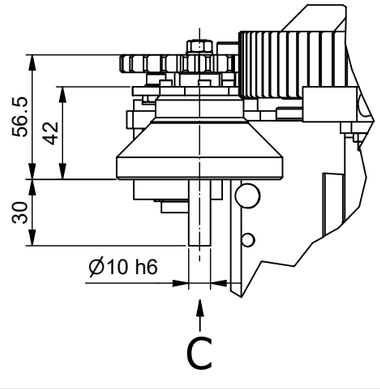


View A

View C



Det. B



Traction motor data		
Type : AC Asynchronous		
Power (S2 - 60 min)	W	4000
Motor voltage (~3)	V	27
Battery voltage	V	48
Speed	Rpm	2200
Frequency	Hz	80
Current	A	110
Torque	Nm	17.4
Enclosure	IP	44

Traction gear data		
Gear ratio	i	1:34.2
Max accel. and braking torque	Nm	1200
Nominal wheel torque	Nm	416
Max load on vulkollan wheel	Kg	2200
Max load on poliurethan wheel	Kg	
Max load on solid rubber wheel	Kg	
Brake torque	Nm	32
Lubrication		Grease

Steering gearmotor data		
Type : AC Asynchronous		
Power (S2 - 60 min)	W	800
Motor voltage (~3)	V	27
Battery voltage	V	48
Motor Speed	Rpm	2850
Frequency	Hz	100
Current	A	23
Motor torque	Nm	2.7
Gear ratio	i	1:45.56
Gear output torque	Nm	91.6
Enclosure	IP	44
Lubrication		Grease

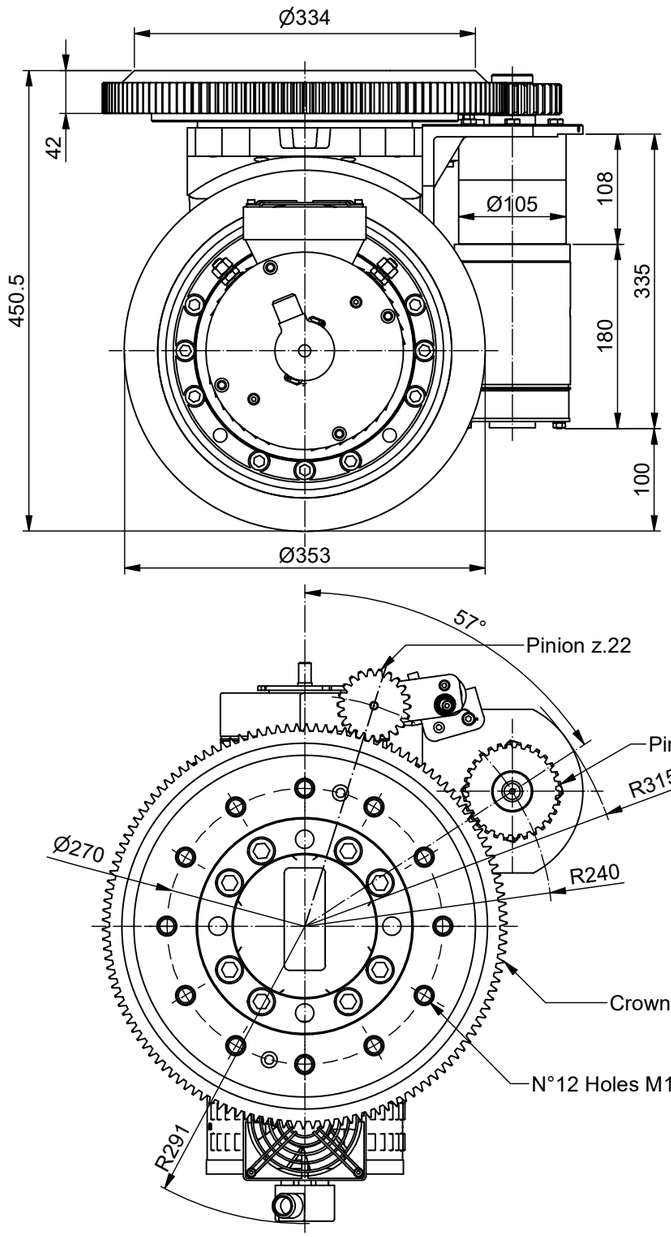
Total Weight	Kg	122

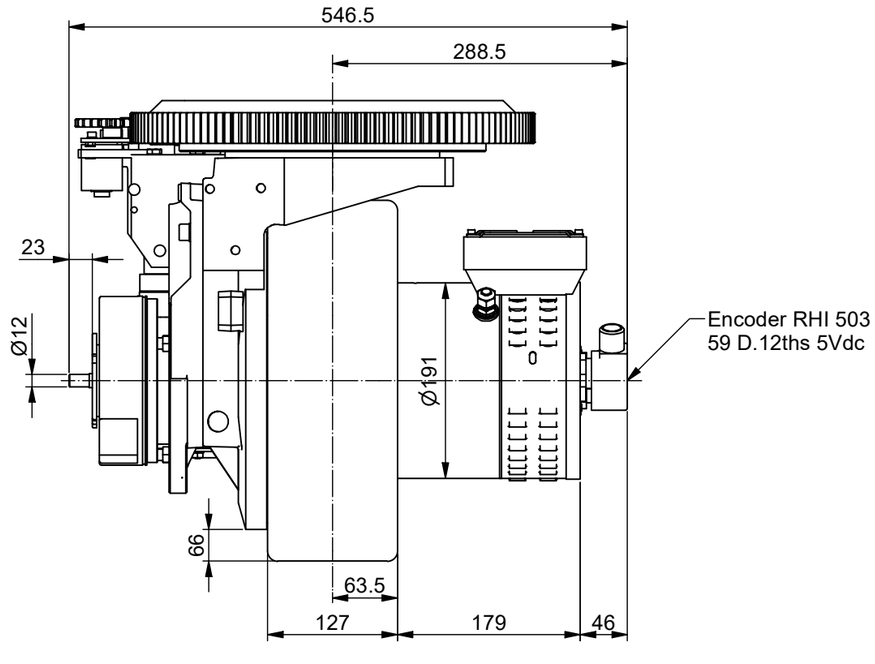
Data : *Date :* 12/06/2018	Scala : *Scale :* 1 : 5.5		**A3**
Dis : *Drawn :* L.L.			

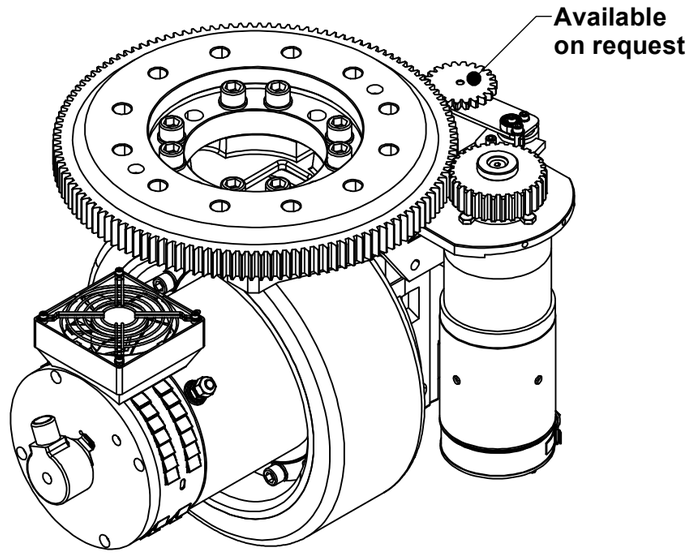
C.F.R. srl
Modena - Italy

D.C. MOTOR IN WHEEL UNIT

CODE **MRT36.DC002**







	Available on request
A	Motors: Permanent Magnet, Series Wound, Sepex, AC Asynchronous
B	Voltages: 24V, 36V, 48V, 72V, 80V, 96V
C	Gear Ratio:1:25.7, 1:34.2
D	Encoders application ; Thermic Sensor
E	Forced ventilation
F	

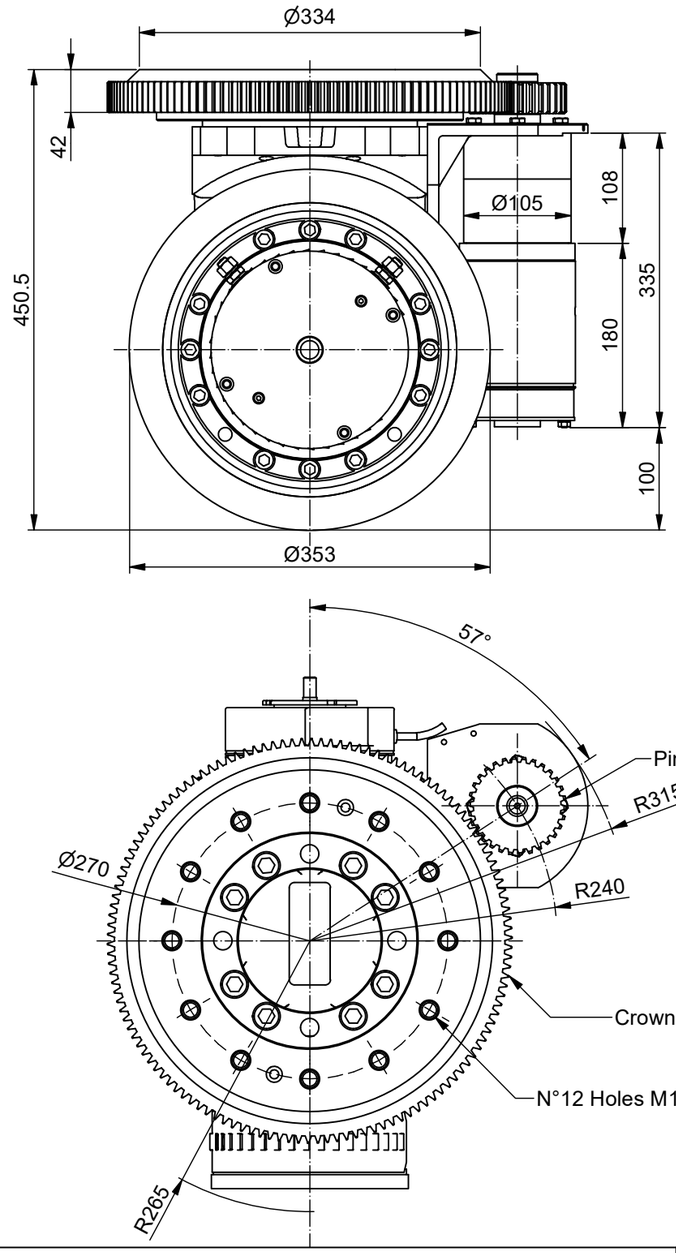
	Traction motor data		
1	Type : D.C. Permanent Magnet		
2	Power (S2 - 60 min)	W	4000
3	Motor voltage	V	48
4			
5	Speed	rpm	2200
6			
7	Current	A	119
8	Torque	Nm	17.4
9			
10			
11	Enclosure	IP	20
12	Brake torque	Nm	60
	Traction gear data		
13	Max input motor power	W	6000
14	Gear ratio	i	1:34.2
15	Max accel. and braking torque	Nm	1260
16			
17	Nominal wheel torque	Nm	416
18			
19			
20			
21	Lubrication		Grease
22	Max load on vulkollan wheel	kg	2200
23	Max load on polyurethan wheel	kg	
24	Max load on solid rubber wheel	kg	
	Steering gear motor data		
25	Type : D.C. Series Wound		
26	Power (S2 - 60 min)	W	800
27	Motor voltage	V	48
28			
29	Motor Speed	rpm	2800
30			
31	Current	A	24
32	Motor torque	Nm	2.7
33	Enclosure	IP	20
34			
35	Gear ratio	i	1:46
36	Efficiency	η	0.75

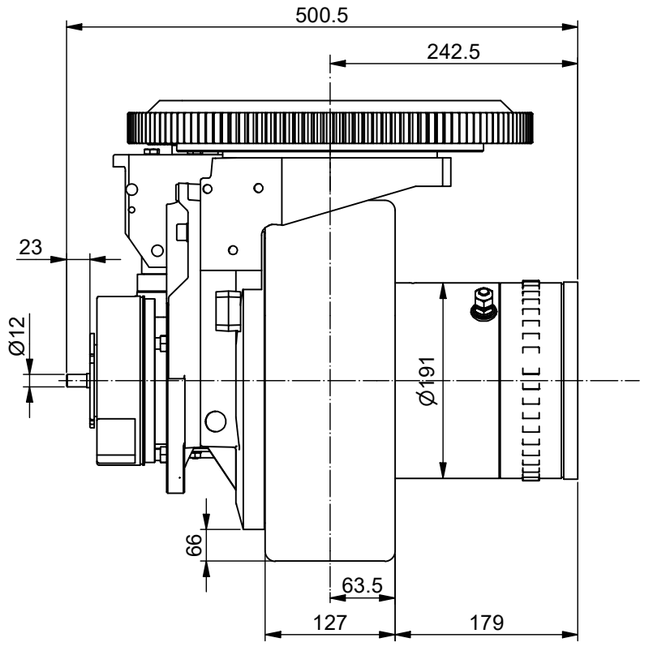
37	Total Weight	kg	170

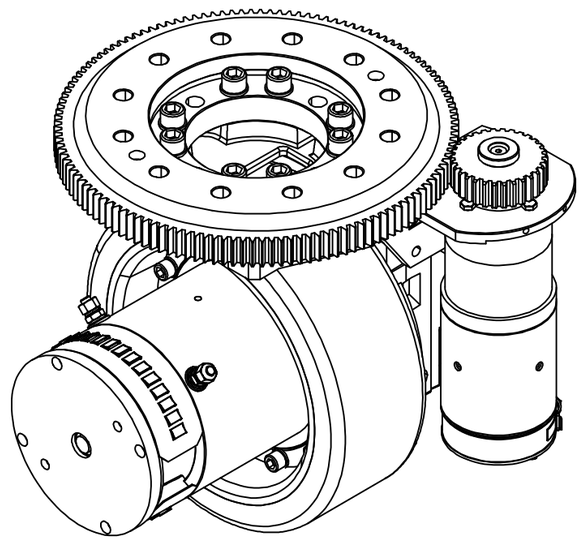
C.F.R. srl
Modena - Italy

D.C. MOTOR IN WHEEL UNIT

CODE **MRT36.DC003**







	Available on request
A	Motors: Permanent Magnet, Series Wound, Sepex, AC Asynchronous
B	Voltages: 24V, 36V, 48V, 72V, 80V, 96V
C	Gear Ratio:1:25.7, 1:34.2
D	Encoders application ; Thermic Sensor
E	Forced ventilation
F	

	Traction motor data		
1	Type : D.C. Permanent Magnet		
2	Power (S2 - 60 min)	W	4000
3	Motor voltage	V	48
4			
5	Speed	rpm	2000
6			
7	Current	A	119
8	Torque	Nm	19.1
9			
10			
11	Enclosure	IP	20
12	Brake torque	Nm	60
	Traction gear data		
13	Max input motor power	W	6000
14	Gear ratio	i	1:25.7
15	Max accel. and braking torque	Nm	1260
16			
17	Nominal wheel torque	Nm	344
18			
19			
20			
21	Lubrication		Grease
22	Max load on vulkollan wheel	kg	2200
23	Max load on polyurethan wheel	kg	
24	Max load on solid rubber wheel	kg	
	Steering gear motor data		
25	Type : D.C. Series Wound		
26	Power (S2 - 60 min)	W	800
27	Motor voltage	V	48
28			
29	Motor Speed	rpm	2800
30			
31	Current	A	24
32	Motor torque	Nm	2.7
33	Enclosure	IP	20
34			
35	Gear ratio	i	1:46
36	Efficiency	η	0.75

37	Total Weight	kg	170