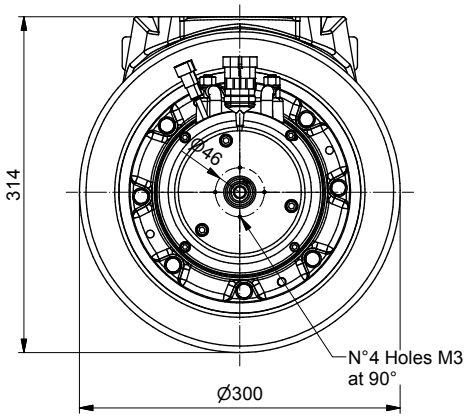
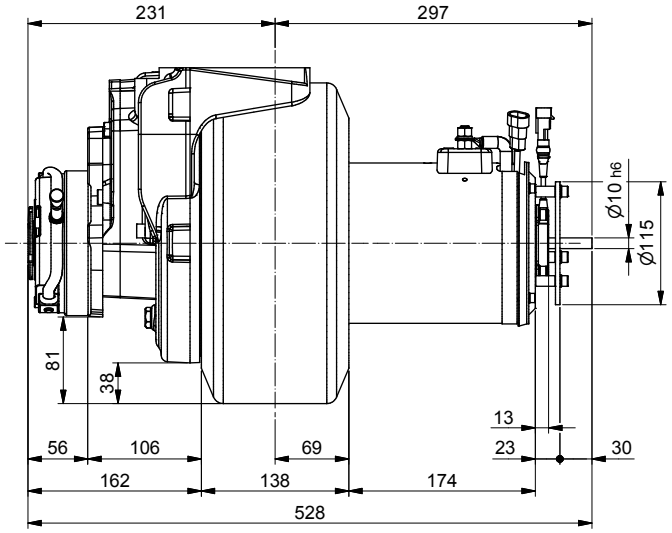
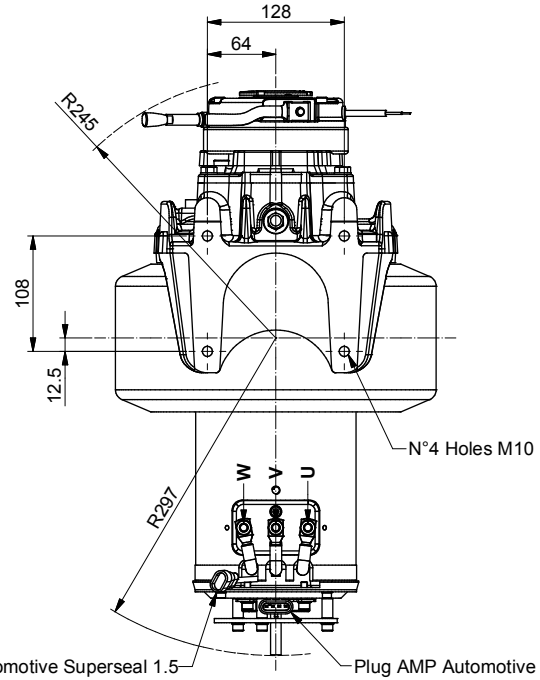
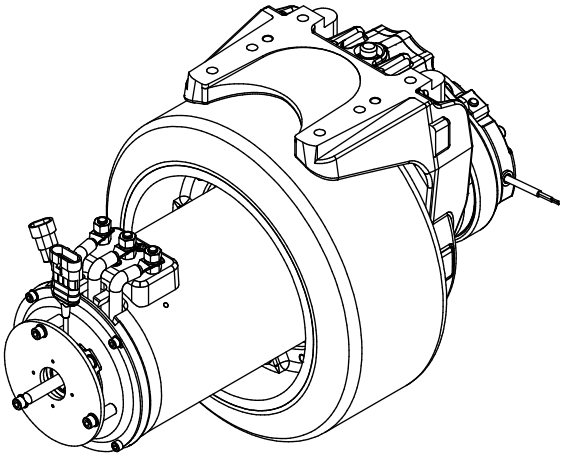
C.F.R. srl Modena - Italy	AC MOTOR IN WHEEL UNIT	CODE MRT33.A0100	Rev.: / Date:









Traction motor data		
Type : AC Asynchronous		
Power (S2 - 60 min)	W	2000
Motor voltage (~3)	V	27
Battery voltage	V	48
Speed	Rpm	2850
Frequency	Hz	100
Current	A	60
Torque	Nm	6.7
Enclosure	IP	20

Traction gear data		
Gear ratio	i	1:29.3
Max accel. and braking torque	Nm	600
Nominal wheel torque	Nm	147
Max load on vulkollan wheel	Kg	1800
Max load on poliurethan wheel	Kg	1800
Max load on solid rubber wheel	Kg	1100
Brake torque	Nm	16
Lubrication		Oil

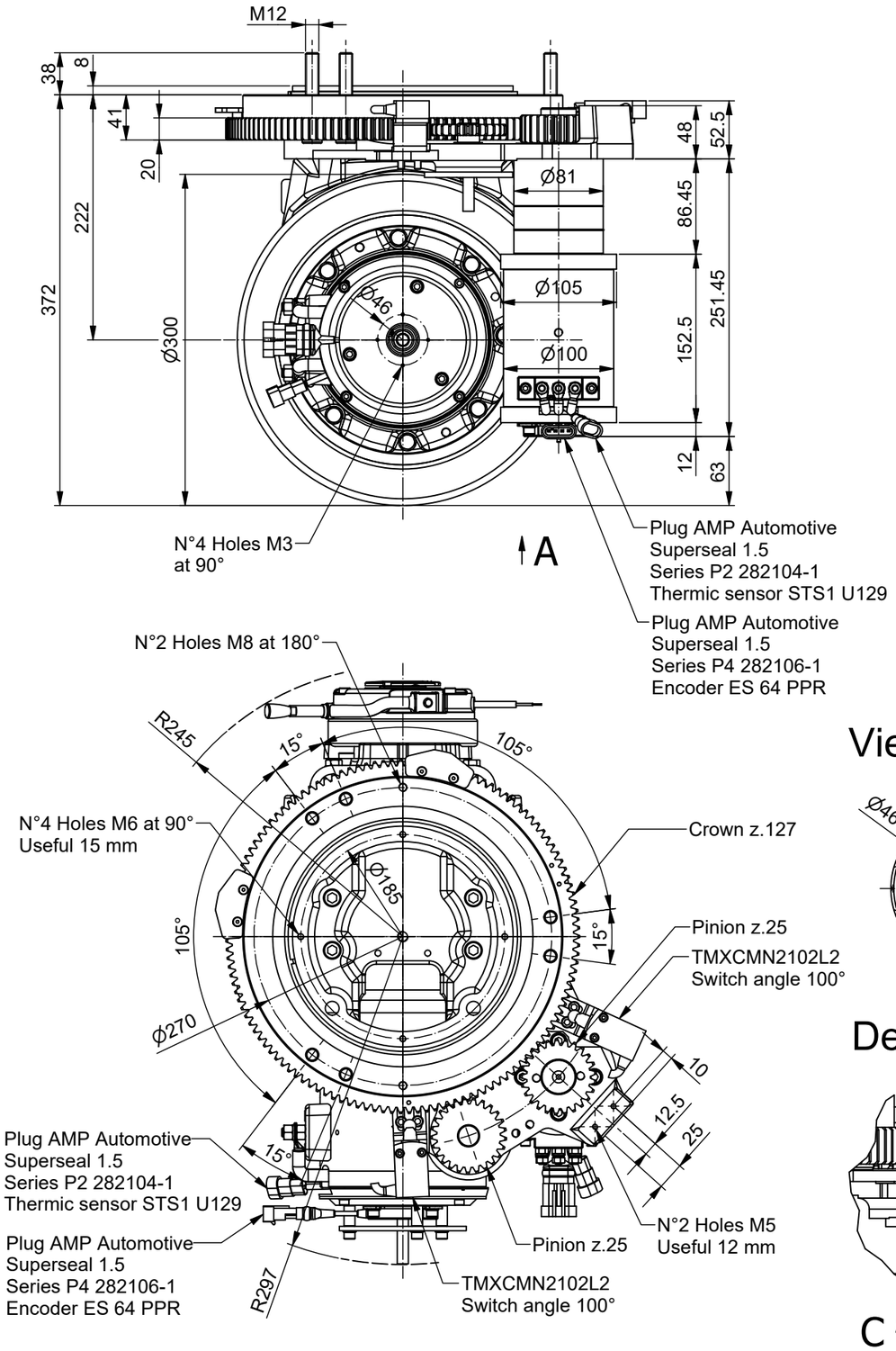
Total Weight	Kg	76

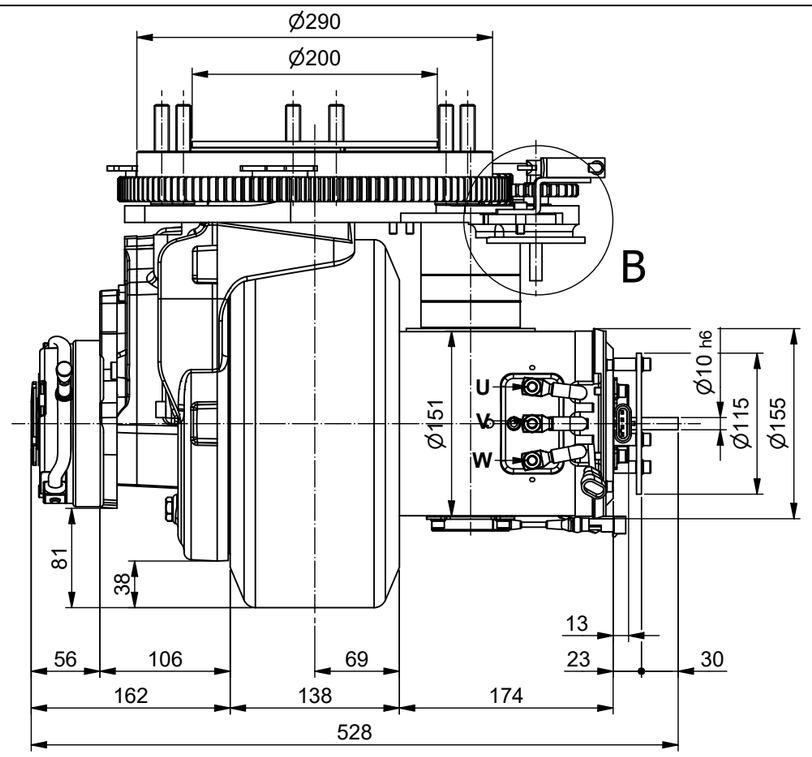
Plug AMP Automotive Superseal 1.5
Series P2 282104-1
Thermic sensor STS1 U129

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

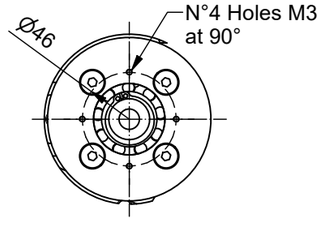
Data : *Date :* 19/06/2018	Scala : *Scale :* 1 : 5	A3
Dis : *Drawn :* L.L.		

C.F.R. srl Modena - Italy	AC MOTOR IN WHEEL UNIT	CODE MRT33.A0101	Rev.: D Date: 28/04/21

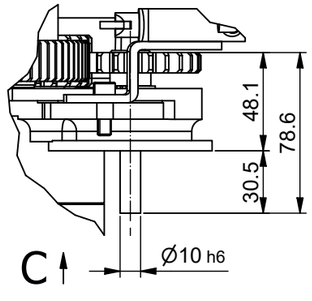




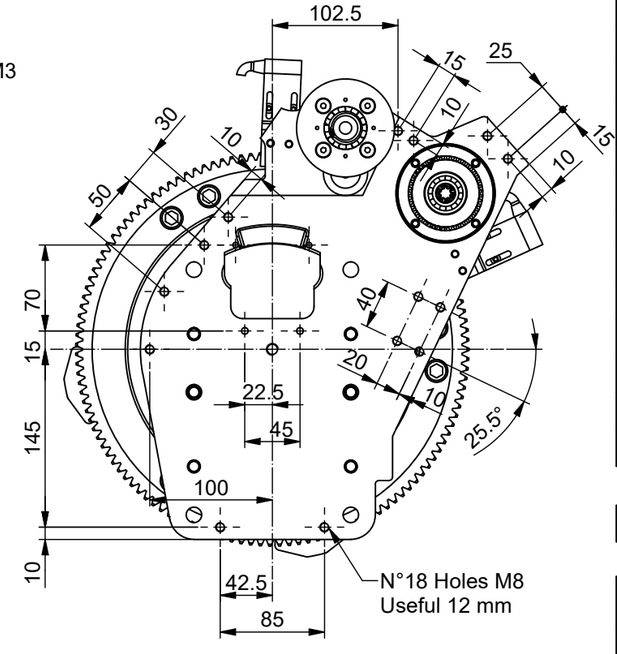
View from "C"



Detail B



View from "A"



Traction motor data		
Type : AC Asynchronous		
Power (S2 - 60 min)	W	2000
Motor voltage (~3)	V	27
Battery voltage	V	48
Speed	Rpm	2850
Frequency	Hz	100
Current	A	60
Torque	Nm	6.7
Enclosure	IP	20

Traction gear data		
Gear ratio	i	1:29.3
Max accel. and braking torque	Nm	600
Nominal wheel torque	Nm	147
Max load on vulkollan wheel	Kg	1800
Max load on poliurethan wheel	Kg	1800
Max load on solid rubber wheel	Kg	1100
Brake torque	Nm	16
Lubrication		Oil

Steering gearmotor data		
Type : AC Asynchronous		
Power (S2 - 60 min)	W	400
Motor voltage (~3)	V	27
Battery voltage	V	48
Motor Speed	Rpm	2850
Frequency	Hz	100
Current	A	14
Motor torque	Nm	1.3
Gear ratio	i	1:45.56
Gear output torque	Nm	45.8
Enclosure	IP	20
Lubrication		Grease

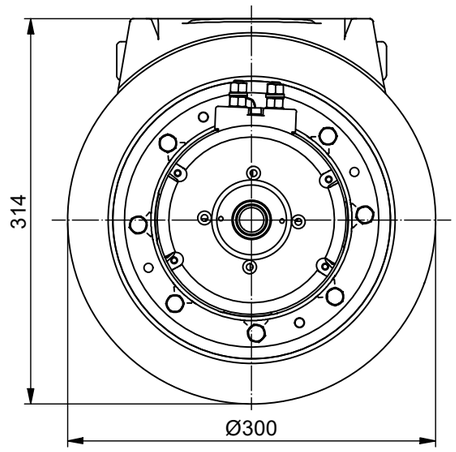
Total Weight	Kg	95

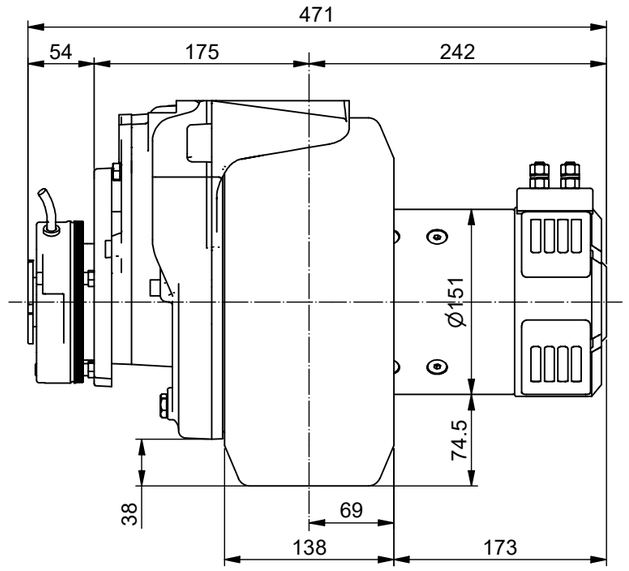
Data : *Date :* 11/06/2018	Scala : *Scale :* 1 : 5	A3
Dis : *Drawn :* L.L.		

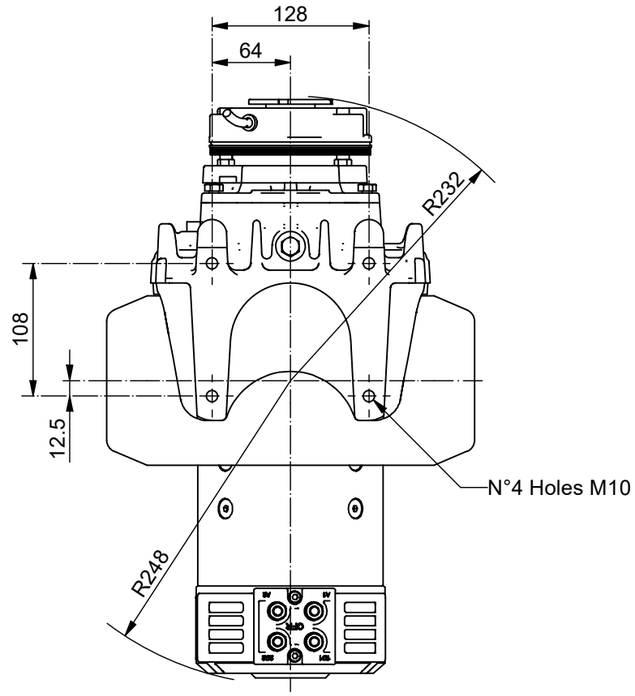
C.F.R. srl
Modena - Italy

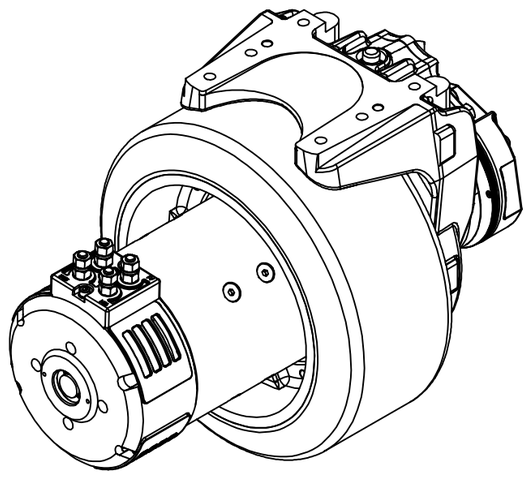
D.C. MOTOR IN WHEEL UNIT

CODE **MRT33.DC001**









	Traction motor data		
1	Type : D.C. Series Wound		
2	Power (S2 - 60 min)	W	2000
3	Motor voltage	V	24
4			
5	Speed	rpm	2000
6			
7	Current	A	119
8	Torque	Nm	9.5
9			
10			
11	Enclosure	IP	20
12	Brake torque	Nm	16
	Traction gear data		
13	Max input motor power	W	2000
14	Gear ratio	i	1:29.3
15	Max accel. and braking torque	Nm	600
16			
17	Nominal wheel torque	Nm	196
18			
19			
20			
21	Lubrication		Oil
22	Max load on vulkollan wheel	kg	1800
23	Max load on polyurethan wheel	kg	1800
24	Max load on solid rubber wheel	kg	1100
	Steering gear motor data		
25	Type :		
26	Power (S2 - 60 min)	W	
27	Motor voltage	V	
28			
29	Motor Speed	rpm	
30			
31	Current	A	
32	Motor torque	Nm	
33	Enclosure	IP	
34			
35	Gear ratio	i	
36	Efficiency	η	

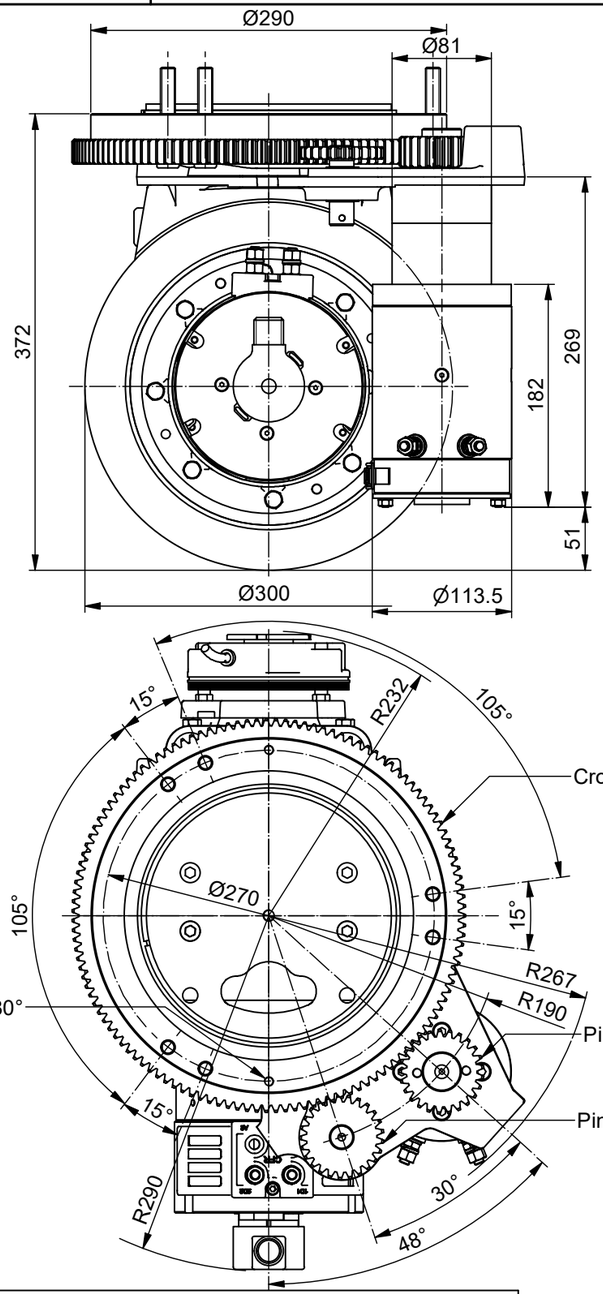
37	Total Weight	kg	76

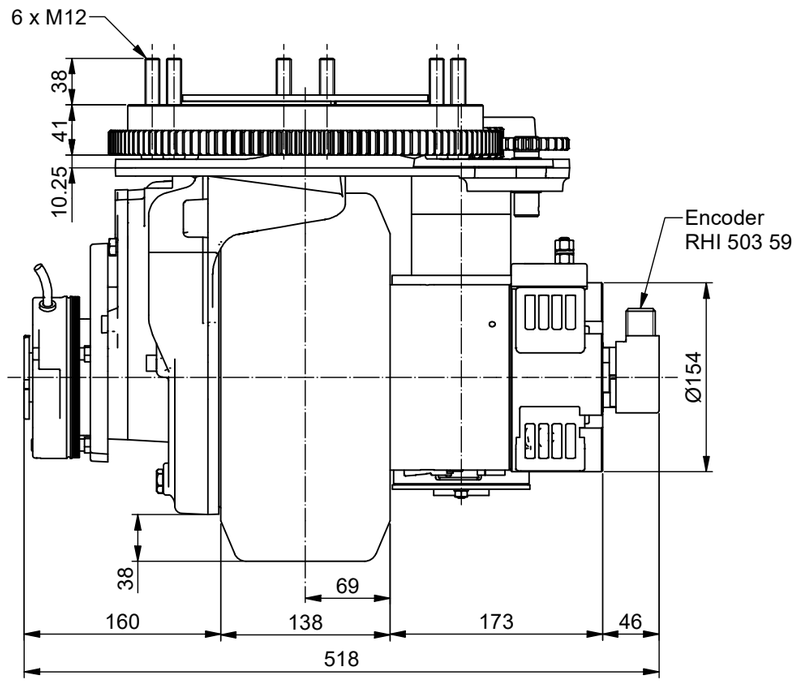
	Available on request
A	Motors: Permanent Magnet, Series Wound, Sepex, AC Asynchronous
B	Voltages: 24V, 36V, 48V, 72V, 80V, 96V
C	Gear Ratio: 1:29.3
D	Encoders application ; Thermic Sensor
E	Forced ventilation
F	

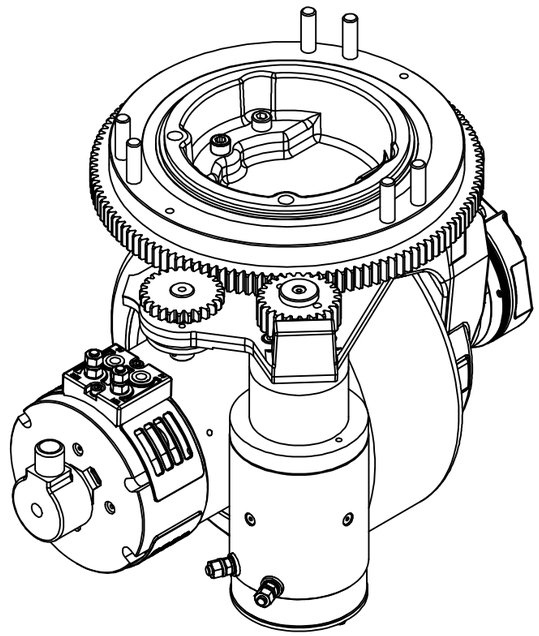
C.F.R. srl
Modena - Italy

D.C. MOTOR IN WHEEL UNIT

CODE **MRT33.DC002**







	Available on request
A	Motors: Permanent Magnet, Series Wound, Sepex, AC Asynchronous
B	Voltages: 24V, 36V, 48V, 72V, 80V, 96V
C	Gear Ratio: 1:29.3
D	Encoders application ; Thermic Sensor
E	Forced ventilation
F	

	Traction motor data		
1	Type : D.C. Permanent Magnet		
2	Power (S2 - 60 min)	W	1800
3	Motor voltage	V	24
4			
5	Speed	rpm	2800
6			
7	Current	A	107
8	Torque	Nm	6.1
9			
10			
11	Enclosure	IP	20
12	Brake torque	Nm	16
	Traction gear data		
13	Max input motor power	W	2000
14	Gear ratio	i	1:29.3
15	Max accel. and braking torque	Nm	600
16			
17	Nominal wheel torque	Nm	126
18			
19			
20			
21	Lubrication		Oil
22	Max load on vulkollan wheel	kg	1800
23	Max load on polyurethan wheel	kg	1800
24	Max load on solid rubber wheel	kg	1100
	Steering gear motor data		
25	Type : D.C. Permanent Magnet		
26	Power (S2 - 60 min)	W	400
27	Motor voltage	V	24
28			
29	Motor Speed	rpm	2800
30			
31	Current	A	24
32	Motor torque	Nm	1.4
33	Enclosure	IP	23
34			
35	Gear ratio	i	1:46
36	Efficiency	η	0.75

37	Total Weight	kg	100