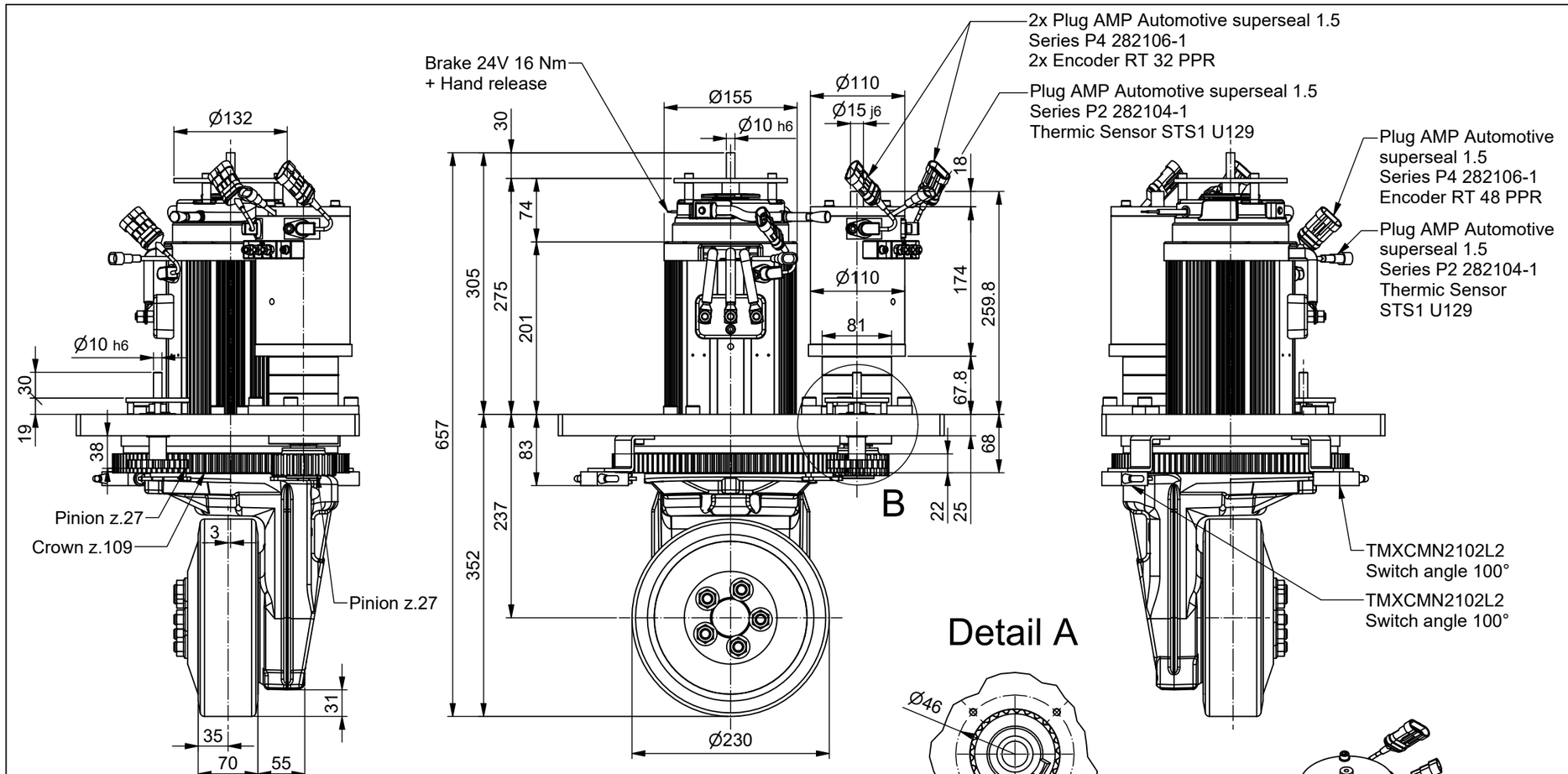
C.F.R. srl
Modena - Italy

AC MOTOR IN WHEEL UNIT

CODE MRT23.A0101

Rev.: B

Date: 28/04/21



Traction motor data		
Type : AC Asynchronous		
Power (S2 - 60 min)	W	1500
Motor voltage (~3)	V	16
Battery voltage	V	24
Speed	Rpm	3000
Frequency	Hz	100
Current	A	85
Torque	Nm	4.8
Enclosure	IP	20
AC motor type	AME135 - 100 - 4	

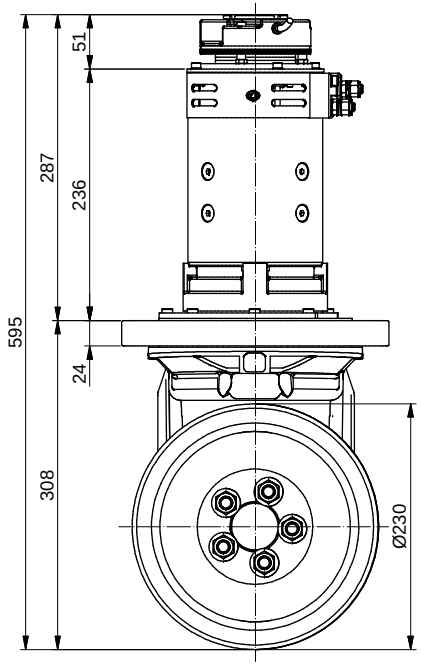
Traction gear data		
Gear ratio	i	1:27.8
Max accel. and braking torque	Nm	500
Nominal wheel torque	Nm	119.5
Max load on poliurethan wheel	Kg	1000
Brake torque	Nm	16
Lubrication		Oil

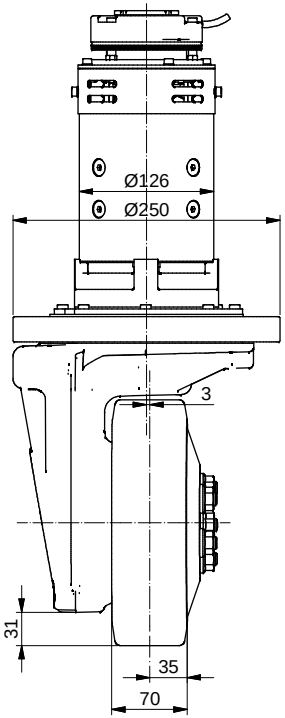
Steering gearmotor data		
Type : AC Asynchronous		
Power (S2 - 60 min)	W	400
Motor voltage (~3)	V	16
Battery voltage	V	24
Motor Speed	Rpm	3000
Frequency	Hz	100
Current	A	28
Motor torque	Nm	1.3
Gear ratio	i	1:45.56
Gear output torque	Nm	43.4
Enclosure	IP	20
Lubrication		Grease
AC motor type	AG090 - 70 - 4	

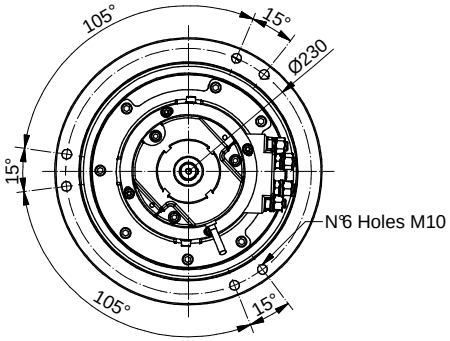
Total Weight	Kg	93

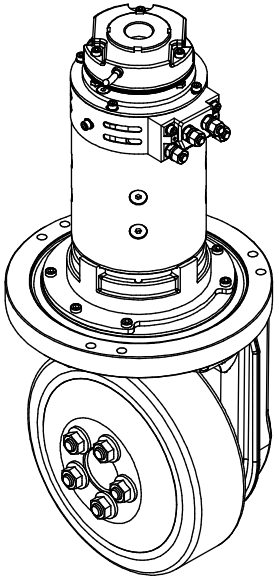
Data : *Date :* 27/09/2018	Scala : *Scale :* 1 : 6		**A3**
Dis : *Drawn :* R.P.			

C.F.R. srl Modena - Italy	D.C. MOTOR IN WHEEL UNIT	CODE MRT23.DC001









	Available on request
A	Motors: Permanent Magnet, Series Wound, Sepex, AC Asynchronous
B	Voltages: 24V, 36V, 48V, 72V, 80V, 96V
C	Gear Ratio: 1:25.08
D	Encoders application ; Thermic Sensor
E	Forced ventilation
F	

	Traction motor data		
1	Type : D.C. Permanent Magnet		
2	Power (S2 - 60 min)	W	1000
3	Motor voltage	V	24
4			
5	Speed	rpm	2800
6			
7	Current	A	60
8	Torque	Nm	3.4
9			
10			
11	Enclosure	IP	20
12	Brake torque	Nm	8
	Traction gear data		
13	Max input motor power	W	1500
14	Gear ratio	i	1:25.08
15	Max accel. and braking torque	Nm	380
16			
17	Nominal wheel torque	Nm	60
18			
19			
20			
21	Lubrication		Oil
22	Max load on vulkollan wheel	kg	
23	Max load on polyurethan wheel	kg	1000
24	Max load on solid rubber wheel	kg	
	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	46