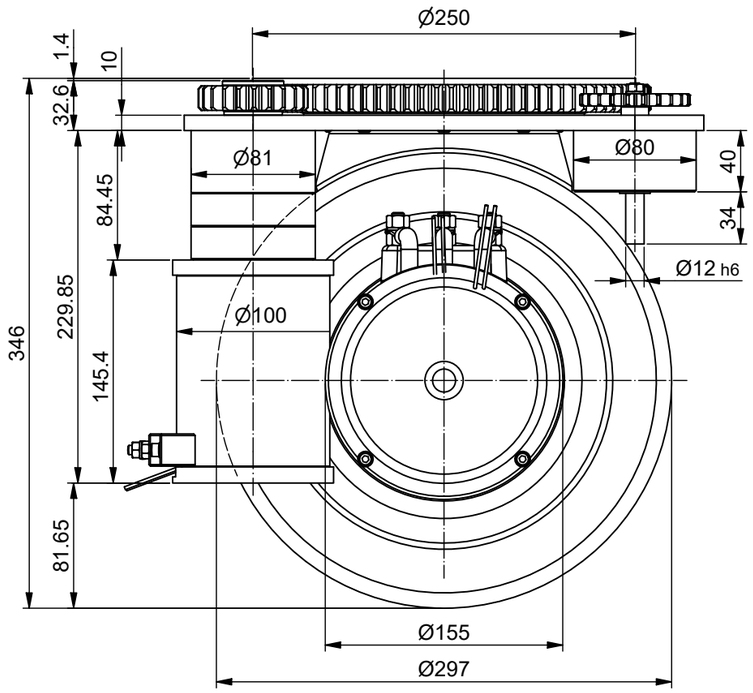
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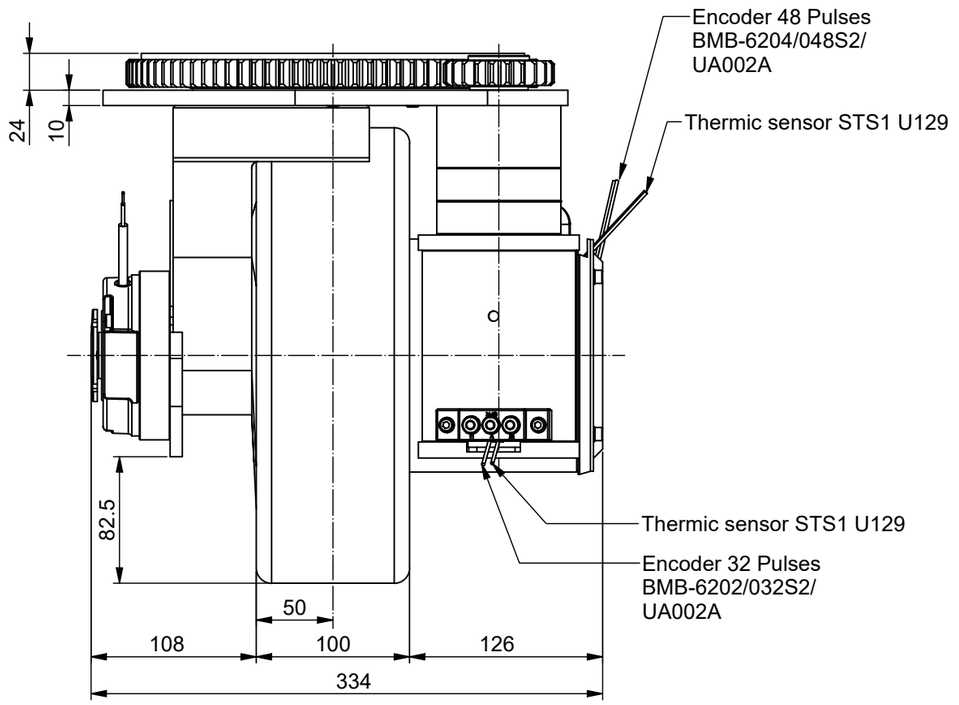
AC MOTOR IN WHEEL UNIT

CODE MRT30.A0101

Rev.: A

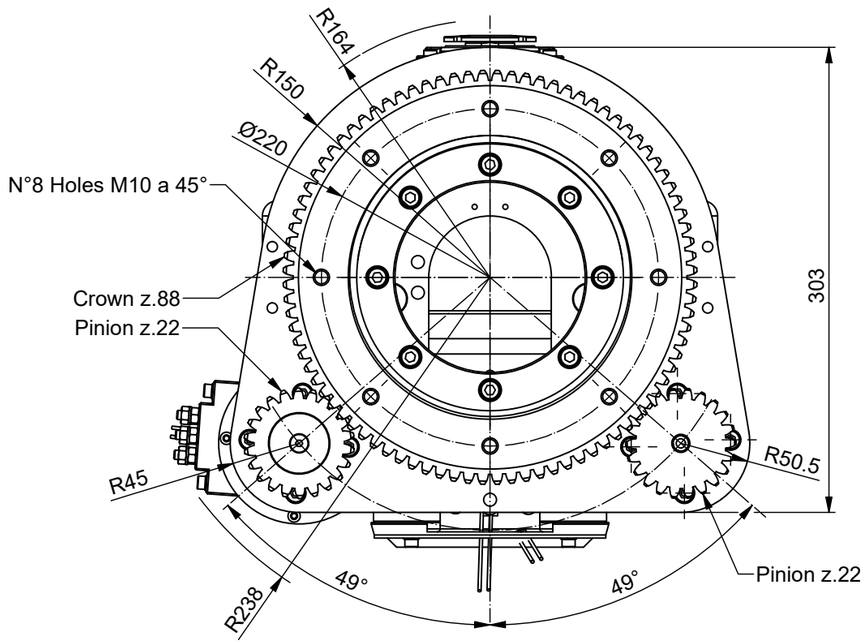
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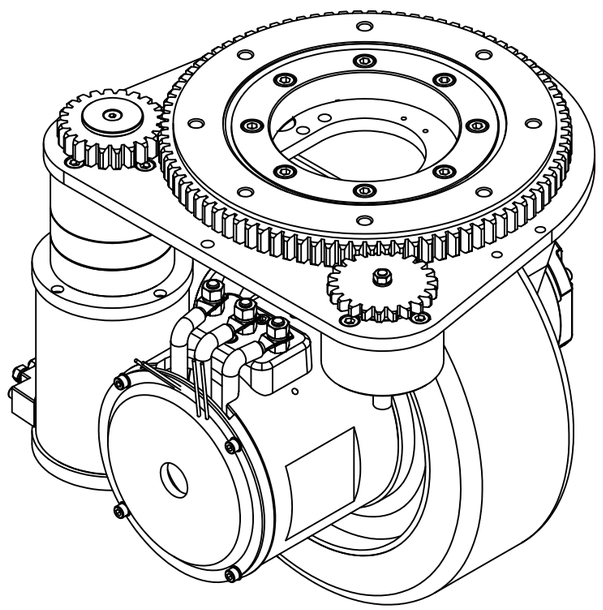




Traction motor data		
Type : AC Asynchronous		
Power (S2 - 60 min)	W	1200
Motor voltage (~3)	V	16
Battery voltage	V	24
Speed	Rpm	2850
Frequency	Hz	100
Current	A	71
Torque	Nm	4.0
Enclosure	IP	20

Traction gear data		
Gear ratio	i	1:34.57
Max accel. and braking torque	Nm	280
Nominal wheel torque	Nm	97
Max load on vulkollan wheel	Kg	1100
Max load on poliurethan wheel	Kg	1100
Max load on solid rubber wheel	Kg	700
Brake torque	Nm	8
Lubrication		Grease





Steering gearmotor data		
Type : AC Asynchronous		
Power (S2 - 60 min)	W	400
Motor voltage (~3)	V	16
Battery voltage	V	24
Motor Speed	Rpm	2850
Frequency	Hz	100
Current	A	24
Motor torque	Nm	1.3
Gear ratio	i	1:45.56
Gear output torque	Nm	44.4
Enclosure	IP	23
Lubrication		Grease

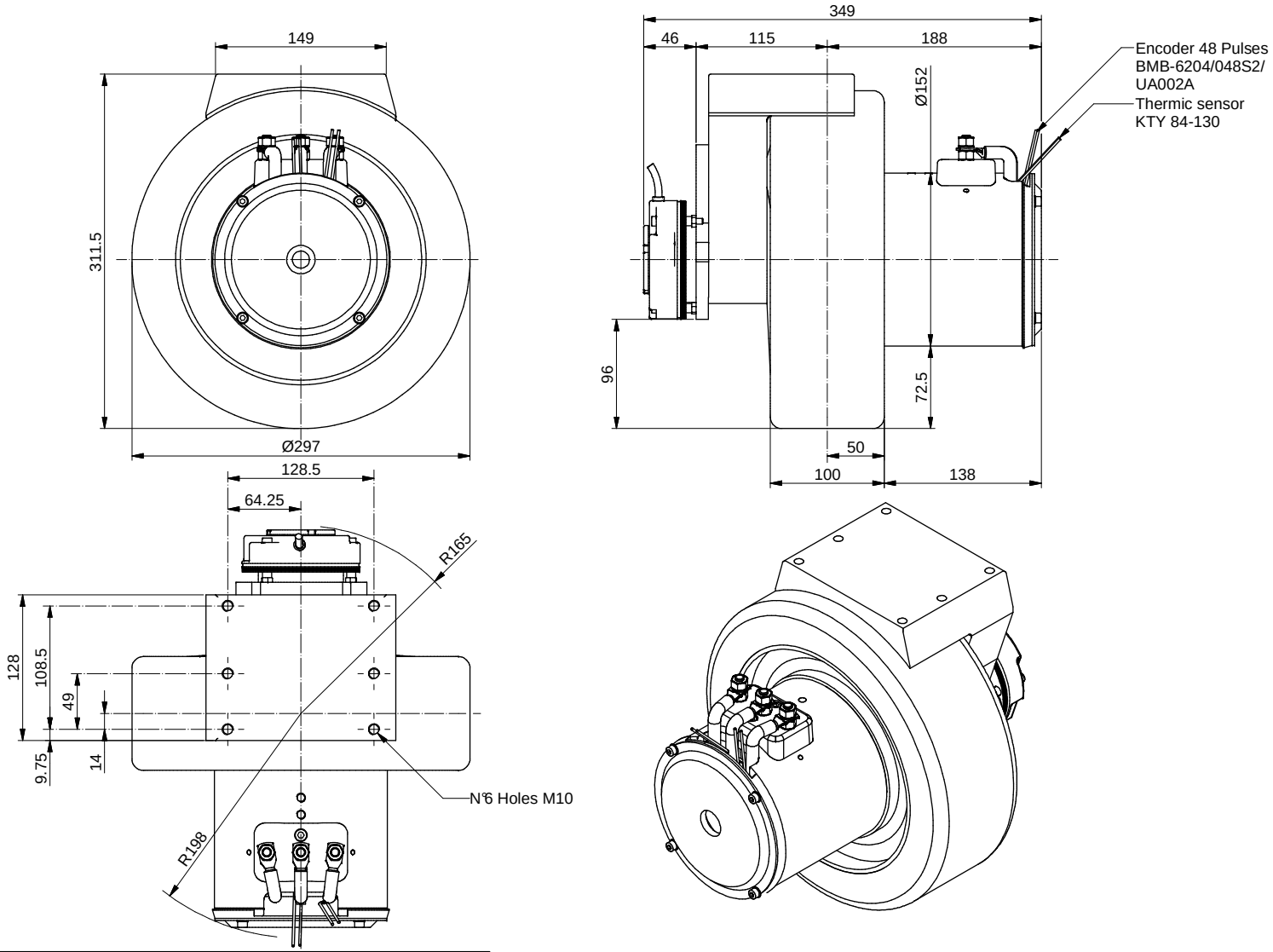
Total Weight	Kg	72

Data : *Date :* 16/01/2012	Scala : *Scale :* 1 : 4		**A3**
Dis : *Drawn :* M.C.			

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AC MOTOR IN WHEEL UNIT

CODE **MRT30.AC001**



	Traction motor data		
1	Type : AC Asynchronous		
2	Power (S2 - 60 min)	W	1200
3	Motor voltage (~3)	V	16
4	Battery voltage	V	24
5	Speed	rpm	2850
6	Frequency	Hz	100
7	Current	A	71
8	Torque	Nm	4.0
9			
10			
11	Enclosure	IP	20
12	Brake torque	Nm	8
	Traction gear data		
13	Max input motor power	W	1400
14	Gear ratio	i	1:34.57
15	Max accel. and braking torque	Nm	280
16			
17	Nominal wheel torque	Nm	97
18			
19			
20			
21	Lubrication		Grease
22	Max load on vulkollan wheel	kg	1100
23	Max load on poliurethan wheel	kg	1100
24	Max load on solid rubber wheel	kg	700
	Steering gearmotor data		
25	Type :		
26	Power (S2 - 60 min)	W	
27	Motor voltage (~3)	V	
28	Battery voltage	V	
29	Motor Speed	rpm	
30	Frequency	Hz	
31	Current	A	
32	Motor torque	Nm	
33	Enclosure	IP	
34			
35	Gear ratio	i	
36	Efficiency	η	

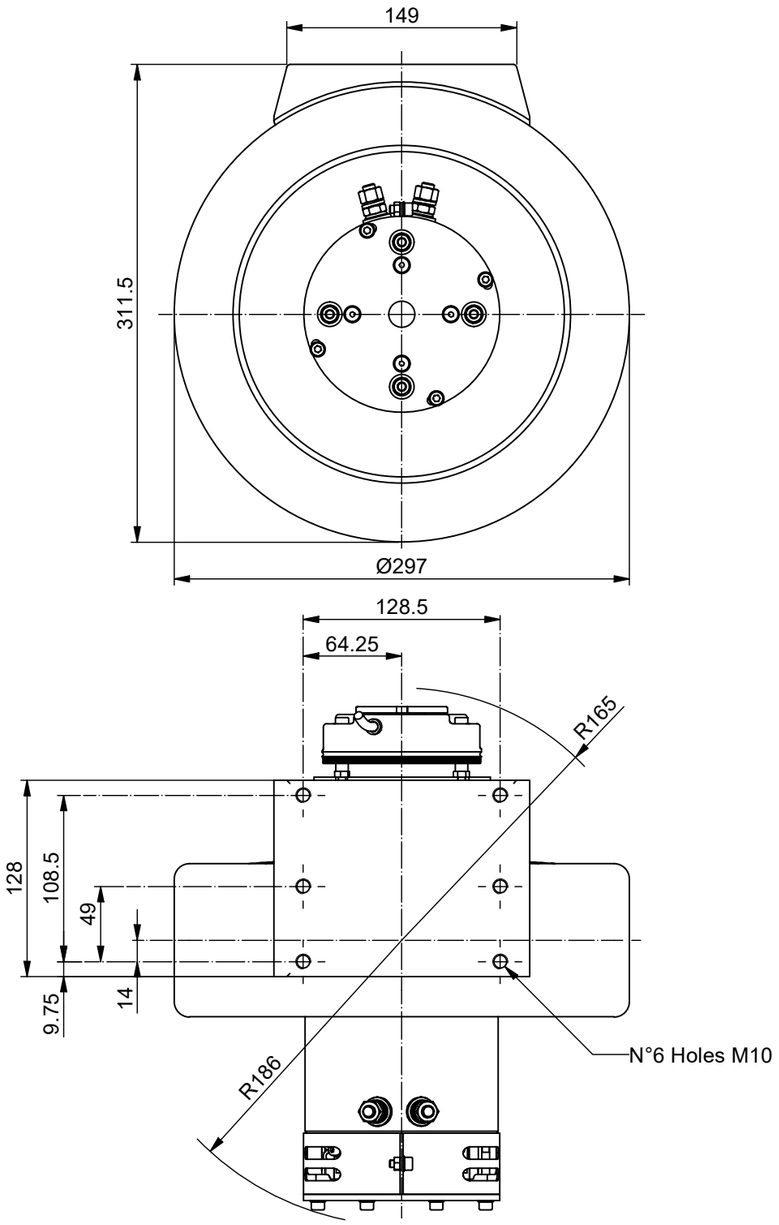
37	Total Weight	kg	45

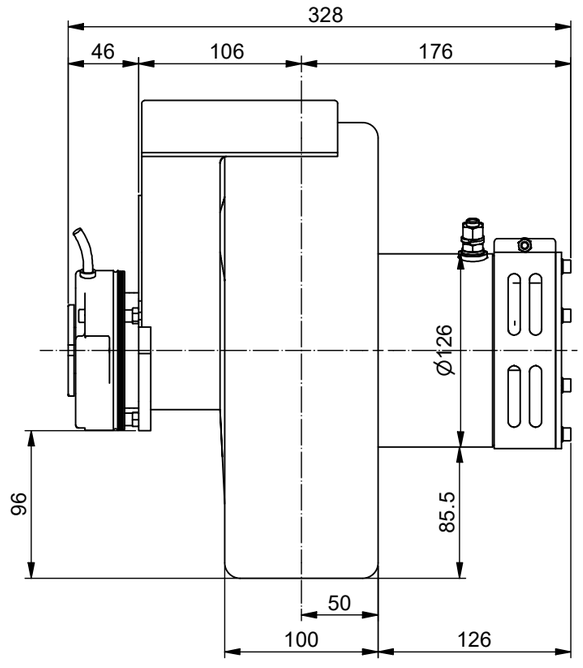
	Available on request
A	Motors: Permanent Magnet, Series Wound, Sepex, AC Asynchronous
B	Voltages: 24V, 36V, 48V, 72V, 80V, 96V
C	Gear Ratio: 1:20.1,1:28.3, 1:34.57
D	Encoders application ; Thermic Sensor
E	Forced ventilation
F	

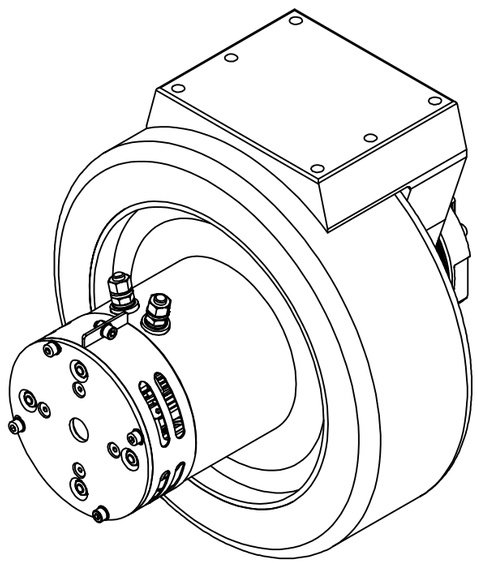
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D.C. MOTOR IN WHEEL UNIT

CODE **MRT30.DC001**







	Available on request
A	Motors: Permanent Magnet, Series Wound, Sepex, AC Asynchronous
B	Voltages: 24V, 36V, 48V, 72V, 80V, 96V
C	Gear Ratio: 1:20.1, 1:28.3, 1:34.57
D	Encoders application ; Thermic Sensor
E	Forced ventilation
F	

	Traction motor data		
1	Type : D.C. Sepex		
2	Power (S2 - 60 min)	W	900
3	Motor voltage	V	24
4			
5	Speed	rpm	2600
6			
7	Current	A	54
8	Torque	Nm	3.3
9			
10			
11	Enclosure	IP	20
12	Brake torque	Nm	8
	Traction gear data		
13	Max input motor power	W	1400
14	Gear ratio	i	1:34.57
15	Max accel. and braking torque	Nm	280
16			
17	Nominal wheel torque	Nm	80
18			
19			
20			
21	Lubrication		Grease
22	Max load on vulkollan wheel	kg	1100
23	Max load on polyurethan wheel	kg	1100
24	Max load on solid rubber wheel	kg	700
	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	44