

Characteristics

- step angle 1.8°, low resolution thanks to Microstep operation
- very high torque thanks to rare-earth magnets
- optimised for use in positioning controls
- optimum ratio of torque and size
- small step angle error, non-cumulative
- 2nd shaft end for optimum attachment of HP encoders



MS 200 HT - 2

MS 135 HT - 2

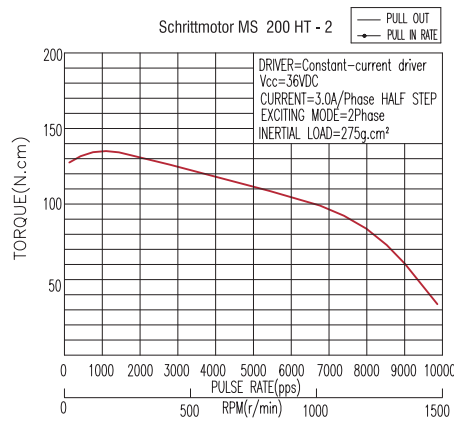
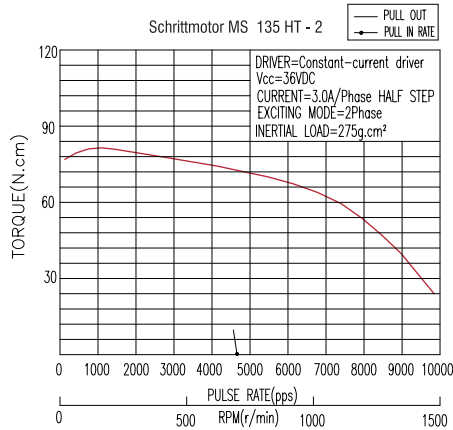
Technical Data

Description		MS 135 HT - 2	MS 200 HT - 2
Holding torque bipolar	Nm	1,1	1,8
Winding current	A	3,0	3,0
Winding voltage	V	2,4	3,0
Winding resistance at 25°C	Ω	0,8 ± 10%	1,0 ± 10%
Winding inductivity at 1 kHz	mH	2,4 ± 20%	3,5 ± 20%
Rotor inertia	kg·m ²	2,8 x 10 ⁻⁵	4,4 x 10 ⁻⁵
Step angle / angle error	° / %	1,8° / ±5%	1,8° / ±5%
Connection cables		4	4
Weight	kg	0,7	1,0
Item-No. with 1 shaft		470551	470581
Item-No. with 2 shafts		-	470581 0100
Item-No. with brake		-	470580 0200

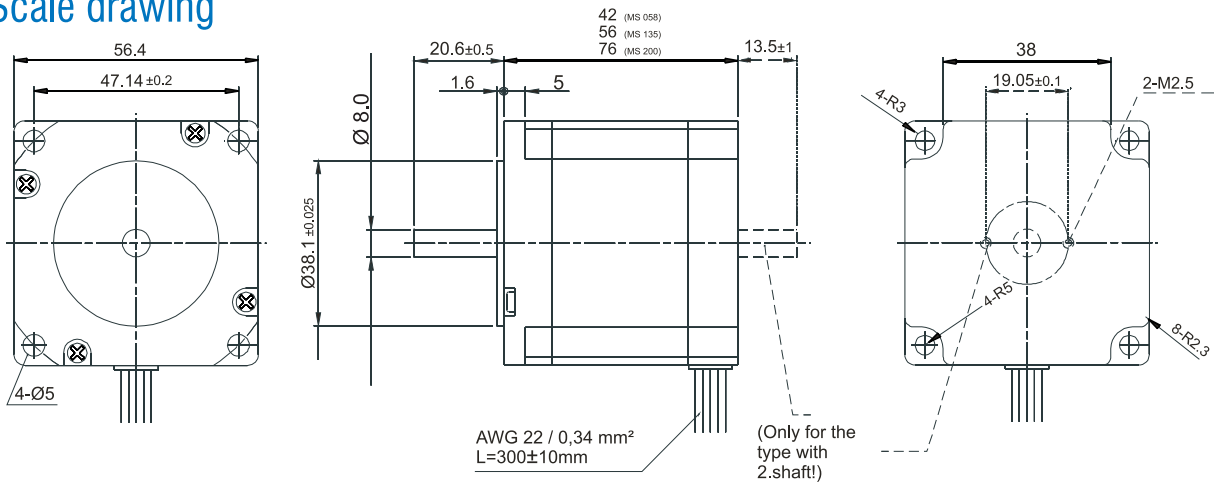
Maximum permissible radial load: 90 N (at 10mm)
 ISO-class: B (130°)
 Protection class: IP40
 Ambient temperature: -10°C ... +50°C
 Insulation resistance: 100 M / 500 VDC

Technical specifications subject to change.

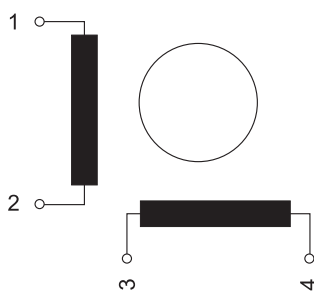
Torque characteristics



Scale drawing



Connection consignment



motor		
	leads	windings
1	black	A
2	green	A\
3	red	B
4	blue	B\

STEP	A	B	A\	B\		
1	+	+	-	-	↑ CW	↓ CCW
2	-	+	+	-		
3	-	-	+	+		
4	+	-	-	+		

Technical specifications subject to change.