UHD1/2/5/6; UHD3/4/7/8

Dimensions (mm) Ø 59 x 35 / Ø 59 x 70 Step angle (grad) Holding 13-24 (UHD1/2/5/6); 27.5-45.5 (UHD3/4/7/8) torque (cNm) Detent 1.3-2.1 (UHD1/2/5/6); 3.4-5.3 (UHD3/4/7/8) torque (cNm) Resistance per winding 6.8-10 (UHD1/2/5/6); 6.75 (UHD4/8) 6 V (Ω) 36-61 (UHD1/2/5/6); 20-28.5 (UHD3/4/7/8) 12 V (Ω) 168-251 (UHD1/2/5/6); 108-120 (UHD3/4/7/8) 24 V (Ω) 460 (UHD3/7) 46 V (Ω) Standard/UL/CSA Approval Weight (g) 300 (UHM 1/2/5/6) 580 (UHM 3/4/7/8) Gear combination



Standard Data

Climatic class "wide-spread" according to IEC 721, part 2-1

Ambient temperature operation $-15 \dots +55^{\circ}$ C Ambient temperature storage $-20 \dots +100^{\circ}$ C

Thermal resistance at f=0 (R_{therm}) 9 K/W (UHM 1/2/5/6); 6.7 K/W (UHM 3/4/7/8)

Thermal class B according to IEC 85
Approval Standard/UL/CSA
Mounting any position
Electrical connection wire

Protection IP 40 according to DIN 40 050/DIN EN 60034-5

Weight (g) 300 (UHM 1/2/5/6), 580 (UHM 3/4/7/8)

Rotor stalling motor can be stopped when voltage is applied, without being overheated

Bearings sintered bronze, self-lubricating
Surge voltage strength according to EN 60 034-1/EN 60-335-1

Order Reference - How to Build a Part Number

Туре	Stepp	per Motor		UHD 1	0	N	36 Ω	R	N	1
Configuration	1 2 5 6	bipolar, two coils, standard magnet unipolar, two coils, standard magnet bipolar, two coils, stronger magnet unipolar, two coils, stronger magnet	3 4 7 8	bipolar, four coils, standard magnet unipolar, four coils, standard magnet bipolar, four coils, stronger magnet unipolar, four coils, stronger magnet						
Rotor shaft, mounting	0 1 2	center bolt 12 mm, shaft 6.35 mm, clip center bolt 12 mm, shaft 4.0 mm, clip center bolt 12 mm, shaft 3.0 mm, clip	3 4 5	center bolt 12 mm, shaft 6.35 mm, screw plate* center bolt 12 mm, shaft 4.0 mm, screw plate* center bolt 12 mm, shaft 3.0 mm, screw plate*						
Approval	N UL CSA	Standard UL CSA								
Resistance		See page 52								
Direction		reversible								
Cable	N wire 150 mm (other on request)									
	* not for UHD3/4/7/8)									

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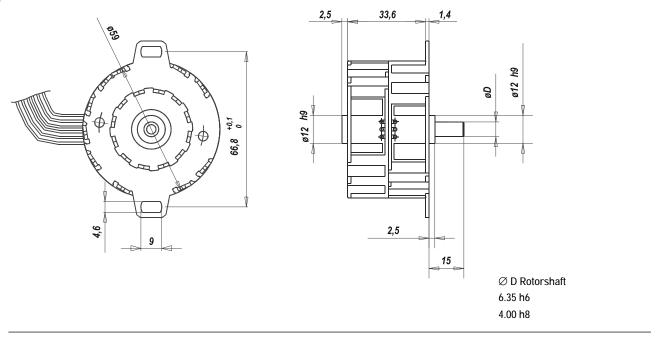
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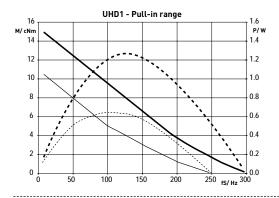
Technical Data UHD1/2/5/6

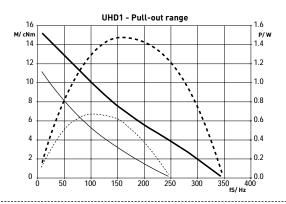
Bipolar (UHD1/5)	Rated voltage U _N	V	6	12	24
	Resistance per winding R ₂₀	Ω	6.8	36	168
	Holding torque	cNm	17.1 (UHD1); 24 (UHD5)		
	Detent torque M _S	cNm	1.3 (UHD1/2);	2.1 (UHD5/6)	
	Rotor inertia J _R	gcm ²	49 (UHD1/2); !	56 (UHD5/6)	
Unipolar (UHD2/6)	Rated voltage U _N	V	6	12	24
	Resistance per winding R ₂₀	Ω	10	45	190
	Holding torque	cNm	13 (UHD2); 17	.3 (UHD6)	
	Detent torque M _S	cNm	1.3 (UHD1/2);	2.1 (UHD5/6)	
	Rotor inertia J _R	gcm²	49 (UHD1/2); !	56 (UHD5/6)	
	Steps per revolution	48			
	Duty cycle	100%			
	Winding temperature T _{max}	130° C			
	Direction of rotation	reversible			

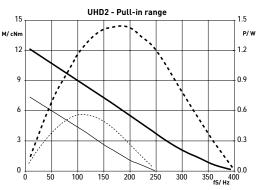
Dimensions (mm)

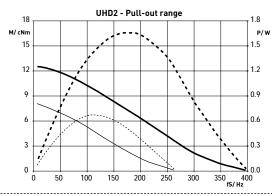


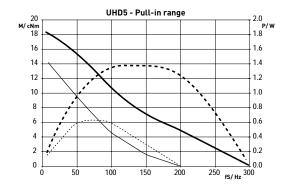
Performance Chart

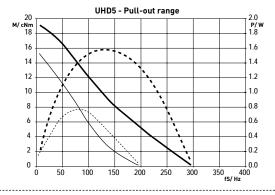


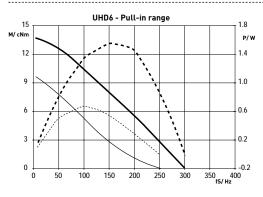






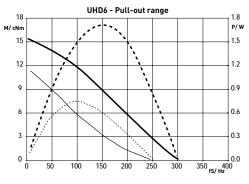






M - ED 100 %

M - ED 30 %



----- P - ED 100 % ----- P - ED 30 %

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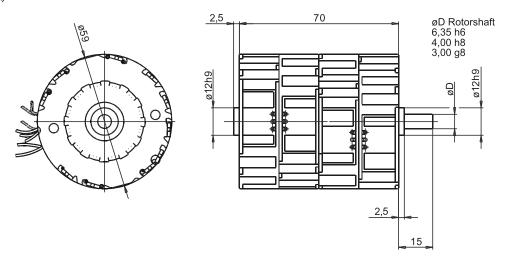
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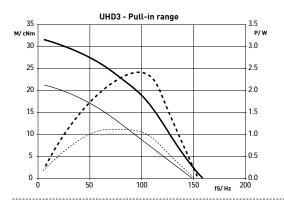
Technical Data UHD3/4/7/8

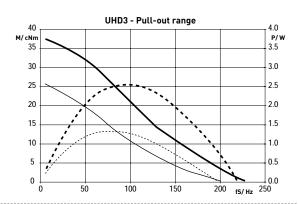
Rated voltage U _N	V	12	24	48		
Resistance per winding R ₂₀	Ω	20	108	460		
Holding torque	cNm	37.5 (UHD3); 45	5.5 (UHD7)			
Detent torque M _S	cNm	3.4 (UHD3/4); 5	5.3 (UHD7/8)			
Rotor inertia J _R	gcm²	135 (UHD3/4);	141 (UHD7/8)			
Rated voltage U _N	V	6	12	24		
Resistance per winding R ₂₀	Ω	6.75	28.5	120		
Holding torque	cNm	27.5 (UHD4); 33.5 (UHD8)				
Detent torque M _S	cNm	3.4 (UHD3/4); 5				
Rotor inertia J _R	gcm²	135 (UHD3/4);	141 (UHD7/8)			
Steps per revolution		48				
Duty cycle	100%					
Winding temperature T _{max}		130° C				
Direction of rotation		reversible				
	Resistance per winding R_{20} Holding torque Detent torque M_S Rotor inertia J_R Rated voltage U_N Resistance per winding R_{20} Holding torque Detent torque M_S Rotor inertia J_R Steps per revolution Duty cycle Winding temperature T_{max}	$\begin{array}{lllll} & & & & & & & & & & \\ & & & & & & & & $	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		

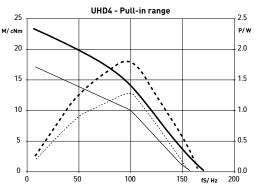
Dimensions (mm)

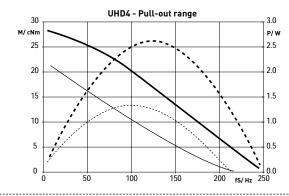


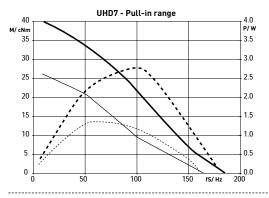
Performance Chart

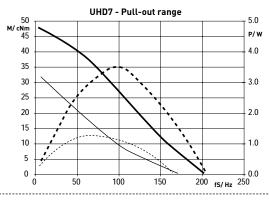


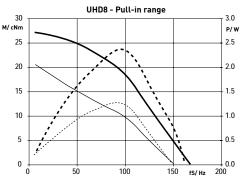


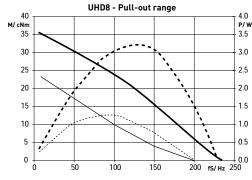












M - ED 100 % M - ED 30 %

P - ED 100 % P - ED 30 %

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