

HLF

Series



Technical Parameters							
Model	Unit	HLF060A	HLF085A	HLF115A	HLF140B HLF160B	Ratios (i)	Stages
Nominal torque T _n	N·m	16.5	63.0	155.0	310.0	3	1-stages
		26.0	90.0	230.0	460.0	4	
		28.0	100.0	245.0	500.0	5	
		20.0	68.0	165.0	340.0	7	
		12.5	43.0	95.0	195.0	10	
		19.5	75.0	185.0	370.0	9	2-stages
		31.5	110.0	275.0	550.0	12	
		31.5	110.0	275.0	550.0	16	
		31.5	110.0	275.0	550.0	20	
		33.5	120.0	290.0	600.0	25	
		31.5	110.0	275.0	550.0	28	
		33.5	120.0	290.0	600.0	35	
		31.5	110.0	275.0	550.0	40	3-stages
		33.5	120.0	290.0	600.0	50	
		24.0	81.0	195.0	400.0	70	
		37.5	130.0	335.0	665.0	80	
		37.5	130.0	335.0	665.0	100	
		40.0	145.0	355.0	720.0	125	
		37.5	130.0	335.0	665.0	140	
		40.0	145.0	355.0	720.0	175	
		37.5	130.0	335.0	665.0	200	
40.0	145.0	355.0	720.0	250			
37.5	130.0	335.0	665.0	280			
40.0	145.0	355.0	720.0	350			
37.5	130.0	335.0	665.0	400			
40.0	145.0	355.0	720.0	500			
28.0	95.0	230.0	480.0	700			
18.0	62.0	135.0	280.0	1000			
Max. output torque T _{2n}	N·m	2*Nominal torque					
Backlash	arcmin	<4	<4	<4	<4	P1	1-stages
		<8	<8	<8	<8	P2	
		<8	<8	<8	<8	P1	2-stages
		<12	<12	<12	<12	P2	
		<10	<10	<10	<10	P1	3-stages
		<14	<14	<14	<14	P2	
No-load torque	N·m	0.18	0.6	1.1	2.5		1-stages
		0.17	0.55	1.0	2.2		2-stages
		0.16	0.5	0.9	2.0		3-stages
Rated input speed	rpm	3000	3000	3000	2500		
Maximum input speed	rpm	7000	6000	5000	4200		
Noise	dB	≤58	≤60	≤62	≤65		
Description							
① The return clearance is measured under 2% of the rated output torque T _{2n} ;							
② The noise value is measured at a distance of 1 meter from the measured machine body at the rated input speed and without load.							

Technical Parameters						
Model	Unit	HLE/HLF				Stages
Lifetime	h	20000				
Min.operating temp	℃	-25				
Max.operating temp	℃	+90				
Degree of protection	IP	IP65				
Mounting position		Life lubrication				
Mounting position		Any				
Direction of rotaton		Same direction				
Maxiumum efficiency	%	94%				1-stages
		92%				2-stages
		88%				3-stages
Model	Unit	HLF060A	HLF085A	HLF115A	HLF160B	Stages
Max.radial force	N	400	1050	2200	3650	1-stages
		500	1300	2600	4650	2-stages
		800	1500	2900	5400	3-stages
Max.axial force	N	300	850	1600	2000	1-stages
		390	1100	2100	2700	2-stages
		700	1300	2600	5500	3-stages
Torsional stiffness	N·m/arcmin	3.2	8.5	17.5	37.5	
Model	Unit	HLF060A	HLF085A	HLF115A	HLF160B	Stages
Max radial force	N	400	1050	2200	3650	1-stages
		500	1300	2600	4650	2-stages
		800	1500	2900	5400	3-stages
Max axial force	N	300	850	1600	2000	1-stages
		390	1100	2100	2700	2-stages
		700	1300	2600	5500	3-stages
Torsional stiffness	N·m/arcmin	3.2	8.5	17.5	37.5	
Description						
<p>① Life is the time of continuous operation under rated load;</p> <p>② The maximum allowable radial force is the allowable radial force measured at the center of the output shaft (1/2 shaft length) when the output speed is 100rpm for single-stage, 50rpm for double-stage and 10rpm for triple-stage</p> <p>③ The maximum allowable axial force is the allowable axial force measured at the outer end face of the output shaft when the output speed is 100rpm for single-stage, 50rpm for double-stage and 10rpm for triple-stage; If you have other special requirements,</p>						
<p>Please Contact HKT-Robot Technicians.</p>						