

# SPEED VARIATOR

**MONTROLI**®

## INTRODUCE

MONTROLI® UD Series Speed Variator are made to IEC Standards, also up to the international latest design technology. The power range of UD Series is from 0.12kw up to 7.5kw in 7 frame sizes from 63 up to 132 to satisfy variable applications.

## FEATURES

- \* High precision for the speed adjustment. The speed iterative precision is between 0.5~1 cycle.
- \* Can be duplexing operated continuously.
- \* The output transmission ratio between 1:1.4 to 1:7 (except UDL-002) and is adjustable, speed variation ratio can reach 5.
- \* High operate efficiency, stable and quiet operation.
- \* Good sealing and good adaptability in the operation environment.
- \* Can combine with all kinds of reducers to handle various kinds of transmission projects.
- \* Compact size, simple construction & light weight.
- \* Good appearance.
- \* Superior life.
- \* Ease of maintenance.

## MAIN MATERIALS

- \* Cover: Aluminium alloy for UDL and cast iron for UDT.
- \* Inner parts: Gcr15 harden steel with heat treatment.
- \* Shaft: 20Cr harden steel with heat treatment and tempered with low temperature.

## PAINTING

- \* Aluminium alloy: Short blasting and anti-corrosive treatment on the surface of the aluminium alloy or painted with RAL5010 blue epoxy-polyester powder.
- \* Cast iron: Painted with blue epoxy-polyester powder.

## UDL SERIES



## UDT SERIES



Model	Power		Ratio <i>i</i>	Output Speed <i>n<sub>2min</sub></i> (rpm)	Output Speed <i>n<sub>2max</sub></i> (rpm)	Output Torque (N.m.)	Output Torque (N.m)
	(KW)	(HP)					
415V/50Hz Speed 2800r.p.m. (2 Poles)							
UDL-002	0.25	0.34	0.129~0.645	361	1806	1.1	2.9
	0.37	0.50				1.6	
UDL-005	0.55	0.75	0.143~0.714	400	2000	2.2	5.9
	0.75	1				3	
UDL-010	1.1	1.5	0.143~0.714	400	2000	4.4	11.9
	1.5	2				6	
415V/50Hz Speed 1400r.p.m. (4 Poles)							
UDL-002	0.12	0.16	0.129~0.645	181	903	1.1	2.9
	0.18	0.25				1.6	
UDL-005	0.25	0.34	0.143~0.714	200	1000	2.2	5.9
	0.37	0.5				3	
UDL-010	0.55	0.75	0.143~0.714	200	1000	4.4	11.9
	0.75	1				6	
UDT-020	1.1	1.5	0.143~0.714	200	1000	8.8	24
	1.5	2				12	
UDT-030S	2.2	3	0.143~0.714	200	1000	17.9	36
UDT-030L	3	4	0.143~0.714	200	1000	24	64
	4	5.5				32	
UDT-050S	5.5	7.5	0.143~0.714	200	1000	44.9	90.1
UDT-050L	7.5	10	0.143~0.714	200	1000	59	118.1
415V/50Hz Speed 900r.p.m. (6 Poles)							
UDL-005	0.18	0.25	0.143~0.714	129	643	2.2	5.9
	0.25	0.34				3.0	
UDL-010	0.37	0.5	0.143~0.714	129	643	4.4	11.9
	0.55	0.75				6.8	
UDT-020	0.75	1	0.143~0.714	129	643	8.8	24
	1.1	1.5				13.0	
UDT-030S	1.5	2	0.143~0.714	129	643	17.9	36.0
UDT-030L	2.2	3	0.143~0.714	129	643	26.4	64
UDT-050L	5.5	4	0.143~0.714	129	643	61	118.1