

MAGNETIC POWDER BRAKE /MAGNETIC POWDER CLUTCH 磁粉制动器/磁粉离合器



1 孔式制动器
Cellular type magnetic powder brake



2 单轴制动器
Single-shaft magnetic powder brake



3 双轴离合器
Double-shaft magnetic powder clutch



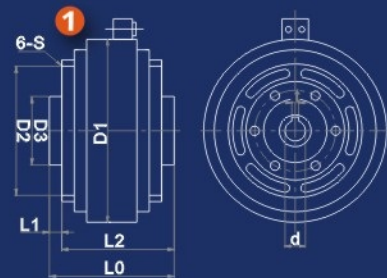
4 孔式离合器
Cellular type magnetic powder clutch

SUMMARY

Magnetic powder clutch/brake is a type of auto-control component with high-performance which uses driving and driven units as main body, powder (magnetic powder) with high magnetic conductivity as working medium and exciting current as control means so as to achieve control transfer/braking torque and to keep the linear relationship between input current and output torque. The products are widely used in winding and unwinding starting/braking control, stamping startup, overload protection, position control, speed control, tension control, artificial load and relevant fast control systems.

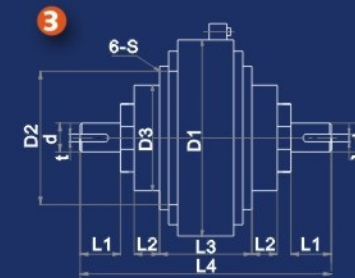
概述

磁粉制动器、离合器是根据电磁原理和利用磁粉传递转矩的。具有激磁电流和传递转矩基本成线性关系的特点。在同滑差无关的情况下能够传递一定的转矩，具有响应速度快、结构简单、无污染、无噪音、无冲击振动节约能源等优点。是一种多用途、性能优越的自动控制元件。磁粉制动器经常被用于传动机械的测功加载和制动等。磁粉离合器还可用于缓冲起动、过载保护、调速等。现已被广泛应用于造纸、印刷、包装、塑料、橡胶、玻纤、纺织、印染、电线电缆、冶金等以及其他有关卷取加工行业中的放卷和收卷张力控制。磁粉制动器和磁粉离合器经常配对使用。



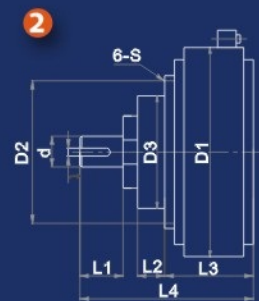
FZ12-100K-1系列空心磁粉制动器
Cellular type magnetic powder brake

主要技术参数 Main technical parameters						外形尺寸 Overall dimension						磁粉 magnetic powder			
型号 Model	转矩 Torque	滑动 Slip	电压 Voltage	转速 Rotation speed	质量 Weight (kg)	D1	D2	D3	L1	L2	L0	6-S	d	t	重量 Weight (g)
FZ12K-3	12	120	24	1000	4	150	82	65	3	62	70	M5	20	6	20
FZ25K-3	25	150	24	1000	7.2	182	110	90	4	79	83	M6	25	8	30
FZ50K-3	50	200	24	1000	11.6	219	219	110	5	89	94	M8	30	8	60
FZ100K-3	100	300	24	800	19.2	260	260	120	5	105	110	M10	35	10	110



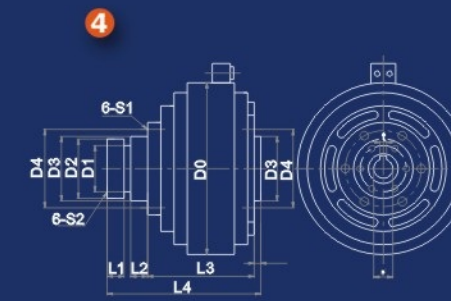
FL6-400A-2系列双轴磁粉离合器
Double-shaft magnetic powder clutch

主要技术参数 Main technical parameters						外形尺寸 Overall dimension						轴部 Shaft		磁粉 magnetic powder		
型号	转矩	滑动	电压	转速	质量(kg)	D1	D2	D3	L1	L2	L3	L4	6-S	d	t	重量(g)
FL6A-1	6	70	24	1400	3.5	130	62	44	25	10	74	155	M5	12	4	10
FL12A-1	12	120	24	1400	6	157	62	50	30	15	95	192	M5	16	5	20
FL25A-1	25	150	24	1400	8.6	182	78	58	40	15	100	220	M6	20	6	30
FL50A-1	50	200	24	1400	14.1	219	100	75	50	20	107	248	M6	25	8	60
FL100A-1	100	300	24	1000	38	290	120	90	65	25	158	348	M8	30	8	110
FL200A-1	200	500	24	1000	62	335	140	110	70	30	186	396	M10	35	10	180
FL400A-1	400	1000	24	1000	88.5	398	200	130	99	35	222	500	M12	45	14	300



FZ6-400A-1系列单轴磁粉制动器
Single-shaft magnetic powder brake

主要技术参数 Main technical parameters						外形尺寸 Overall dimension						轴部 Shaft		磁粉 magnetic powder		
型号 Model	转矩 Torque	滑动 Slip	电压 Voltage	转速 Rotation speed	质量 Weight (kg)	D1	D2	D3	L1	L2	L3	L4	6-S	d	t	重量 Weight (g)
FZ6A-1	6	70	24	1000	3.3	130	62	44	25	10	68	108	M5	12	4	10
FZ12A-1	12	120	24	1000	5.3	157	62	50	30	15	84	133	M5	16	5	20
FZ25A-1	25	150	24	1000	7.9	182	78	58	40	15	91	148	M6	20	6	30
FZ50A-1	50	200	24	1000	13	219	100	75	50	20	100	173	M6	25	8	60
FZ100A-1	100	300	24	800	32.4	290	120	90	65	25	140	235	M8	30	8	110
FZ200A-1	200	500	24	800	52.5	335	140	110	70	30	167	272	M10	35	10	180
FZ400A-1	400	1000	24	800	85	398	200	130	99	35	197	336	M12	45	14	300



FL6-100B-1系列空心磁粉离合器
Cellular type magnetic powder clutch

主要技术参数 Main technical parameters						外形尺寸 Overall dimension						轴部 Shaft		磁粉 magnetic powder				
型号	转矩	滑动	电压	转速	质量(kg)	D0	D2	D2×L1	D3×L2	D4	L3	L4	L5	d	t	6-S2	6-S1	重量(g)
FL6B-1	6	70	24	1400	4.5	130	50	65×17	65×7	70	62	92	3	16	5	M4	M5	10
FL12B-1	12	120	24	1400	5.5	157	60	70×18	72×8	80	73	105	3	20	6	M4	M5	20
FL25B-1	25	150	24	1400	9.15	182	71	80×20	82×8	97	91	125	4	25	8	M5	M6	30
FL50B-1	50	200	24	1400	14.7	219	85	95×21	97×10	110	105	146	4	30	8	M6	M6	60
FL100B-1	100	300	24	1000	32.3	290	105	125×24	128×14	145	136	182	5	35	10	M8	M8	110