

磁粉制动器/磁粉离合器

Magnetic Powder Brake /Magnetic Powder Clutch

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启动、过载保护、调速等。现已广泛应用于造纸、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。

SUMMARY

Magnetic powder brake / clutch can transmit torque based on electro-magnetic theory and the use of magnetic powder. It has the characteristics which magnetizing current and transmit torque has a linear relationship. It has advantages of fast response, simple structure, no pollution, no noise, no shock and vibration, energy-saving and so on. It is a versatile, superior performance of automatic control components. Magnetic powder brake is used to drive machinery, such as loading and brake dynamometer. Magnetic powder clutch can also be used to buffer starting, overload protection, speed control and so on. It is widely used in unwinding and rewinding tension control in papermaking, printing, packaging, plastics, rubber, glass, textile, printing and dyeing, wire and cable, metallurgical and other machine and industrial.

1



孔式制动器
CELLULAR TYPE MAGNETIC POWDER BRAKE

2



单轴制动器
SINGLE-SHAFT MAGNETIC POWDER BRAKE

3



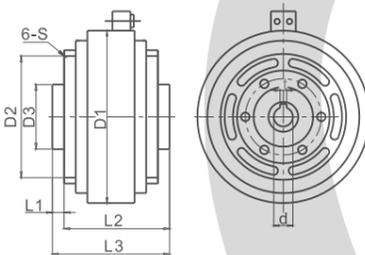
双轴离合器
DOUBLE-SHAFT MAGNETIC POWDER CLUTCH

4



孔式离合器
CELLULAR TYPE MAGNETIC POWDER CLUTCH

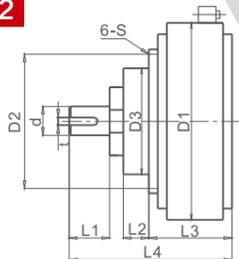
1



FZ 6 -200K 系列孔式制动器
Cellular type magnetic powder brake

主要技术参数 Main technical parameters						外形尺寸 Overall dimension						磁粉量 magnetic powder Weight (g)			
型号 Model	转矩 Torque (N.m)	电流 Current (A)	电压 Voltage (V)	转速 Speed (RPM)	重量 Weight (kg)	D1	D2	D3	L1	L2	L3	6-S	d	t	
FZ 6K	6	0.8	24	1000	3	130	62	52	3	57	60	M4	16	6	10
FZ 12K	12	1	24	1000	4.5	150	82	65	4	68	72	M5	20	6	20
FZ 25K	25	1.5	24	1000	7.5	182	110	90	4	80	84	M6	25	8	30
FZ 50K	50	1.8	24	1000	12	219	130	110	5	90	95	M8	30	8	60
FZ100K	100	2	24	800	20.5	260	140	120	5	105	110	M10	35	10	110
FZ200K	200	2.8	24	800	30	335	170	150	5	115	120	M10	45	14	180

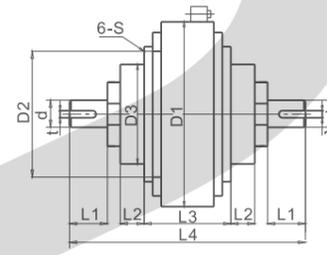
2



FZ6-400A 系列单轴制动器
Single-shaft magnetic powder brake

主要技术参数 Main technical parameters						外形尺寸 Overall dimension						磁粉量 magnetic powder Weight (g)				
型号 Model	转矩 Torque (N.m)	电流 Current (A)	电压 Voltage (V)	转速 Speed (RPM)	重量 Weight (kg)	D1	D2	D3	L1	L2	L3	L4	6-S	d	t	
FZ 6A	6	0.8	24	1400	3.5	130	62	44	25	10	68	108	M4	12	4	10
FZ 12A	12	1	24	1400	6	157	62	50	30	15	84	128	M5	16	5	20
FZ 25A	25	1.5	24	1400	8	182	78	58	40	16	93	154	M6	20	6	30
FZ 50A	50	1.8	24	1400	14	219	100	75	50	20	104	178	M6	25	8	60
FZ100A	100	2	24	1000	28	290	120	90	65	25	140	230	M8	30	8	110
FZ200A	200	2.5	24	1000	50	335	140	110	70	30	167	272	M10	35	10	180
FZ400A	400	3	24	1000	75	398	200	130	99	35	188	336	M14	45	14	300

3



FL6-400A 系列双轴离合器
Double-shaft magnetic powder clutch

主要技术参数 Main technical parameters						外形尺寸 Overall dimension						磁粉量 magnetic powder Weight (g)				
型号 Model	转矩 Torque (N.m)	电流 Current (A)	电压 Voltage (V)	转速 Speed (RPM)	重量 Weight (kg)	D1	D2	D3	L1	L2	L3	L4	6-S	d	t	
FL 6A	6	0.8	24	1400	4	130	62	44	25	10	72	152	M4	12	4	10
FL 12A	12	1	24	1400	6.5	157	62	50	30	15	93	180	M5	16	5	20
FL 25A	25	1.5	24	1400	9.5	182	78	58	40	16	102	218	M6	20	6	30
FL 50A	50	1.8	24	1400	15	220	100	75	50	20	112	260	M6	25	8	60
FL100A	100	2	24	1000	30	290	120	90	65	25	160	340	M8	30	8	110
FL200A	200	2.5	24	1000	55	335	140	110	70	30	190	396	M10	35	10	180
FL400A	400	3	24	1000	80	398	200	130	99	35	221	510	M12	45	14	300

4

