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起重机成套电阻 选型手册 Crane matched resistor design manual

第一分册 The first manual

- ◇ 起重机成套电阻
Crane Matching of resistor
- ◇ 功率电阻
Power Resistors
- ◇ 中性点接地电阻柜
Neutral-to-earth resistance
- ◇ 高低压成套电气设备
High-low Voltage electrical equipment



ZX16型不锈钢电阻器



DTPG06系列功率电阻柜



DNGR系列中性点接地电阻柜

山东大通电阻器科技有限公司，是集轨道交通、风力发电、油田钻井、变频传动、高压输变电等电阻装置、电抗器和变压器生产的专业型企业，集研发、生产、销售、服务于一体。

面对经济全球化的现实，我们以广大客户的需求为己任，以优质的质量、良好的技术、精良的设备、完善的服务与合理的价格致力于同行业之中，赢得用户的信赖。

产品广泛应用于石化、冶金、电力、铁路、煤炭、建机等大、中型工业项目，覆盖面达20多个行业。

公司全体员工始终坚持：勤奋创新、真诚务实的企业精神；一贯奉行：诚信、专业、创新、精品的企业宗旨。



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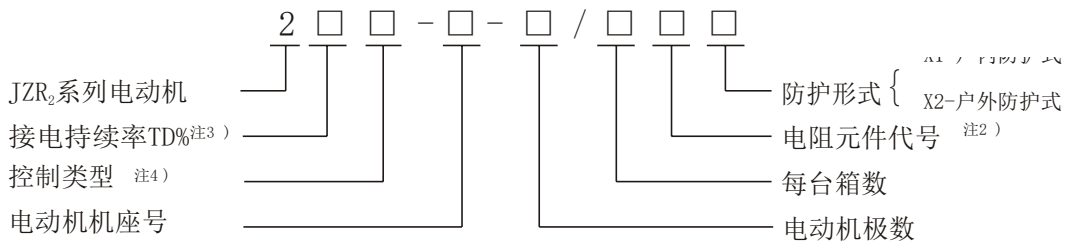
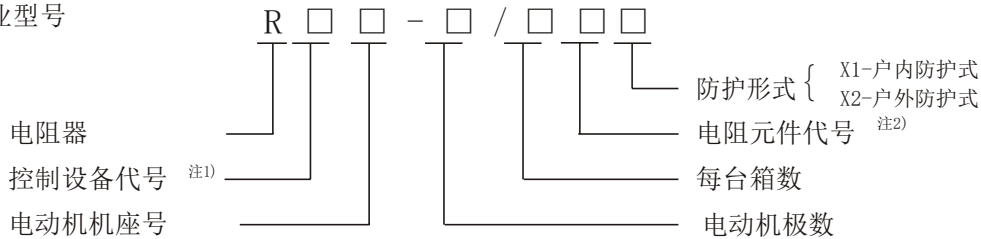
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交流起重机 · JZR₂系列电动机成套电阻器

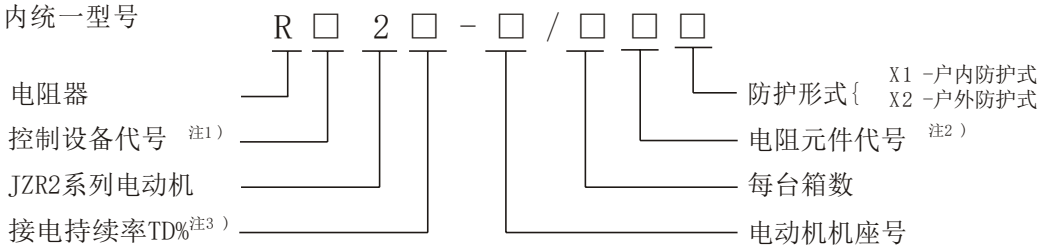
本系列成套电阻器主要用作交流起重机电控设备配套的JZR₂及JZRH₂系列绕线式异步电动机的起动、制动与调速电阻。

一、型号含义

a) 企业型号



b) 国内统一型号



注：1) 控制设备代号：

“T” —KT□凸轮控制器控制；

“Y” 或 “P” —PQY1~3、PQK (X、D、R) 6401等系列平移控制屏（柜）控制；

“S” —PQS1~3系列起升控制屏（柜）控制；

“Z” —PQZ系列抓斗控制屏（柜）控制；

“Q” —PQK (X、D、R) 6402、PQR10等系列起升控制屏（柜）控制；

2) 电阻元件代号：

“B” —ZB1或ZB2型康铜丝（带）绕制的板形电阻元件；

“D” 或 “Y” —ZD2型铁铬铝带绕制的圆筒形电阻元件；

“T” —ZT1或ZT2型铸铁电阻元件；

“J” —ZJ1型铁铬铝带绕制的大波浪形电阻元件；

“c3” —Zc3型不锈钢板冲制而成的网板形电阻元件。

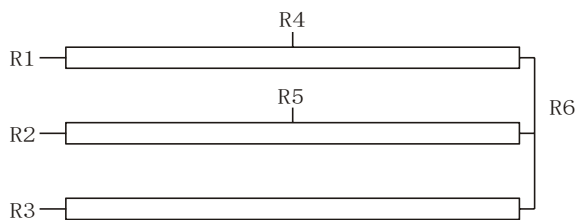
3) 接电持续率TD%：

“2” —25% “4” —40%

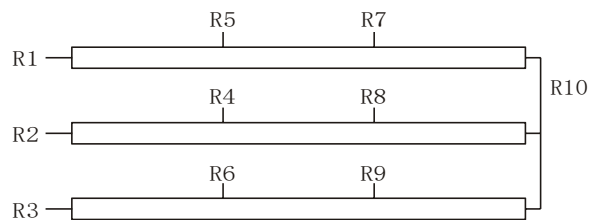
4) 控制类型：

“K5、K10” —凸轮控制器；“P1、P2” —平移控制屏（柜）；“P4、P5” —起升控制屏（柜）。

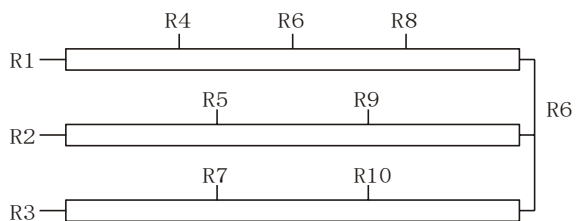
二、接线原理图



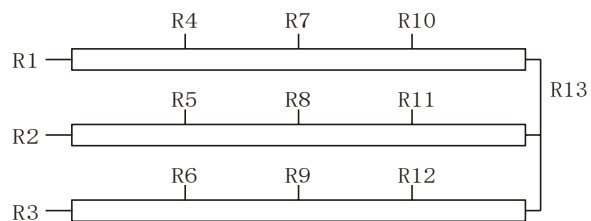
(图1-1)



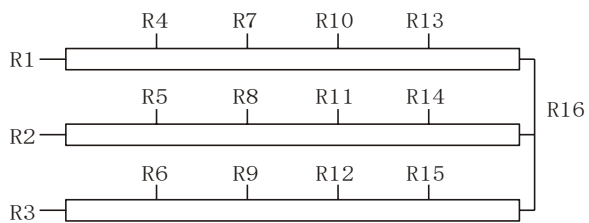
(图1-2)



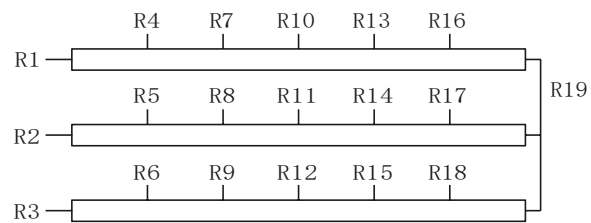
(图1-3)



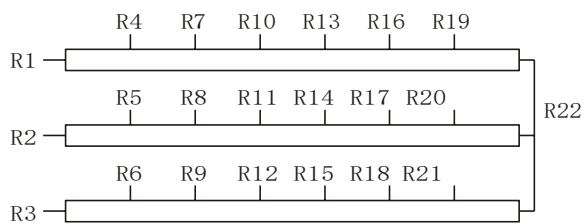
(图1-4)



(图1-5)



(图1-6)



(图1-7)

三、交流起重机·JZR₂系列电动机成套电阻器新旧型号对照

ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)		
RT01-6/1c3	JZR201-6	0.6	64	8.15	RT01-6/1B	图1-1
RT02-6/1c3	JZR202-6	1.0	91	8.9	RT02-6/1B	
RT03-6/1c3	JZR203-6	1.5	120	9.7	RT03-6/1B	
RT11-6/1c3	JZR211-6	2.2	138	11.8	RT11-6/1B	
RT12-6/1c3	JZR212-6	3.5	206	12.1	RT12-6/1B	
RT21-6/1c3	JZR221-6	5.0	143	17.1	RT21-6/1B	
RT22-6/1c3	JZR222-6	7.5	267	18.9	RT22-6/1B	
RT31-6/1c3	JZR231-6	11	225	32	RT31-6/1B	
RT31-8/1c3	JZR231-8	7.5	175	28	RT31-8/1B	
RT41-8/1c3	JZR241-8	11	158	48	RT41-8/1B	
RT42-8/1c3	JZR242-8	16	215	48.5	RT42-8/1B	
RT51-8/2c3	JZR251-8	22	205	67	RT51-8/2D	
RT52-8/2c3	JZR252-8	30	275	69	RT52-8/2D	
22K5-42-8/2c3	JZR263-10	16	215	48.5	22K5-42-8/2D	图1-2
22K5-51-8/2c3	JZR251-8	22	205	67	22K5-51-8/2D	
22K5-52-8/3c3	JZR252-8	30	275	69	22K5-52-8/3D	
24K5-42-8/2c3	JZR242-8	13	215	39.4	24K5-42-8/2D	
24K5-51-8/2c3	JZR251-8	27.5	205	53.3	24K5-51-8/2D	
24K5-52-8/2c3	JZR252-8	23.5	275	54	24K5-52-8/2D	
22K10-63-10/3c3	JZR263-10	60	255	155	22K10-63-10/3D	图1-3
24K10-63-10/3c3	JZR263-10	48	255	124	24K10-63-10/3D	
24P1-31-6/3c3	JZR231-6	11	225	32	24P1-31-6/4D	图1-5
22P1-31-8/3c3	JZR231-8	7.5	175	28	22P1-31-8/4D	
22P1-41-8/2c3	JZR241-8	11	158	48	22P1-41-8/2D	
22P1-42-8/3c3	JZR242-8	16	215	48.5	22P1-42-8/3D	
22P1-51-8/3c3	JZR251-8	22	205	67	22P1-51-8/3D	
22P1-52-8/3c3	JZR252-8	30	275	69	22P1-52-8/3D	
22P1-63-10/6c3	JZR263-10	60	225	155	22P1-63-10/8D	
24P1-31-6/3c3	JZR231-6	8.8	225	25.6	24P1-31-6/4D	
24P1-31-8/3c3	JZR231-8	6.3	175	23.5	24P1-31-8/4D	
24P1-41-8/3c3	JZR241-8	8.8	158	38.4	24P1-41-8/3D	
24P1-42-8/3c3	JZR242-8	13	215	39.4	24P1-42-8/3D	
24P1-51-8/3c3	JZR251-8	17.5	205	53.3	24P1-51-8/3D	
24P1-52-8/3c3	JZR252-8	23.5	275	54	24P1-52-8/4D	
22P2-52-8/3c3	JZR252-8	30	275	69	22P2-52-8/3D	图1-6

ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)		
22P2-61-10/3c3	JZR261-10	30	140	136	22P2-61-10/4D	图1-6
22P2-62-10/4c3	JZR262-10	45	195	145	22P2-62-10/4D	
22P2-63-10/5c3	JZR263-10	60	255	155	22P2-63-10/6D	
22P2-64-10/5c3	JZR264-10	65	272	148	22P2-64-10/6D	
22P2-71-10/7c3	JZR271-10	80	280	178	22P2-71-10/9D	
22P2-72-10/10c3	JZR272-10	100	355	176	22P2-72-10/12D	
22P2-73-10/12c3	JZR273-10	125	450	170	22P2-73-10/15D	
24P2-52-8/4c3	JZR252-8	23.5	275	54	24P2-52-8/4D	
24P2-61-10/4c3	JZR261-10	24	140	109	24P2-61-10/4D	
24P2-62-10/5c3	JZR262-10	36	195	116	24P2-62-10/6D	
24P2-63-10/5c3	JZR263-10	48	255	124	24P2-63-10/6D	
24P2-64-10/6c3	JZR264-10	50	272	114	24P2-64-10/7D	
24P2-71-10/6c3	JZR271-10	63	280	140	24P2-71-10/7D	
24P2-72-10/10c3	JZR272-10	80	355	141	24P2-72-10/12D	
24P2-73-10/10c3	JZR273-10	100	450	136	24P2-73-10/12D	
22P4-41-8/3c3	JZR241-8	11	158	48	22P4-41-8/3D	
22P4-42-8/4c3	JZR242-8	16	215	18.5	22P4-42-8/4D	
22P4-51-8/4c3	JZR251-8	22	205	67	22P4-51-8/5D	
22P4-52-8/5c3	JZR252-8	30	275	69	22P4-52-8/5D	
24P4-41-8/3c3	JZR241-8	8.8	158	38.4	24P4-41-8/3D	
24P4-42-8/4c3	JZR242-8	13	215	39.4	24P4-42-8/4D	
24P4-51-8/4c3	JZR251-8	17.5	205	53.5	24P4-51-8/4D	
24P4-52-8/4c3	JZR252-8	23.5	275	54	24P4-52-8/5D	
22P5-61-10/4c3	JZR261-10	30	140	136	22P5-61-10/5D	
22P5-62-10/5c3	JZR262-10	45	195	145	22P5-62-10/6D	
22P5-63-10/5c3	JZR263-10	60	255	155	22P5-63-10/6D	
22P5-64-10/7c3	JZR264-10	65	272	148	22P5-64-10/9D	
22P5-71-10/7c3	JZR271-10	80	280	178	22P5-71-10/9D	
22P5-72-10/8c3	JZR272-10	100	355	176	22P5-72-10/9D	
22P5-73-10/12c3	JZR273-10	125	450	170	22P5-73-10/15D	
24P5-61-10/5c3	JZR261-10	24	140	109	24P5-61-10/6D	
24P5-62-10/5c3	JZR262-10	36	195	110	24P5-62-10/6D	
24P5-63-10/6c3	JZR263-10	48	255	124	24P5-63-10/8D	
24P5-64-10/7c3	JZR264-10	50	272	114	24P5-64-10/9D	
24P5-71-10/9c3	JZR271-10	63	280	140	24P5-71-10/9D	
24P5-72-10/10c3	JZR272-10	80	355	141	24P5-64-10/12D	
24P5-73-10/12c3	JZR273-10	100	450	136	24P5-71-10/15D	

• JZR₂系列电动机成套电阻器国内统一设计型号

ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)		
RT22-11/1c3	JZR211-6	2.2	136	11.8	RT22-11/1B	图1-1
RT22-12/1c3	JZR212-6	3.5	205	12	RT22-12/1B	
RT22-21/1c3	JZR221-6	5.0	195	18	RT22-21/1B	
RT22-22/1c3	JZR222-6	7.5	270	19	RT22-22/1B	
RT22-316/1c3	JZR231-6	11	225	32	RT22-316/1B	
RT22-318/1c3	JZR231-8	7.5	175	28	RT22-318/1B	
RT22-41/1c3	JZR241-8	11	158	48	RT22-41/1B	
RT22-42/2c3	JZR242-8	16	215	48.5	RT22-42/2D	
RT22-51/2c3	JZR251-8	22	205	67	RT22-51/2D	
RT22-52/3c3	JZR252-8	30	275	69	RT22-52/3D	
RT22-52J/3c3	JZR252-8	30	275	69	RT22-52J/3D	图1-2
RT22-61/3c3	JZR261-10	30	140	136	RT22-61/3D	图1-1
RT22-61J/3c3	JZR261-10	30	140	136	RT22-61J/3D	图1-2
RT22-62/3c3	JZR262-10	45	195	145	RT22-62/4D	图1-1
RT22-62J/3c3	JZR262-10	45	195	145	RT22-62J/4D	图1-2
RT24-11/1c3	JZR211-6	1.8	136	9.65	RT24-11/1B	图1-1
RT24-12/1c3	JZR212-6	2.5	205	8.57	RT24-12/1B	
RT24-21/1c3	JZR221-6	4.2	195	15.1	RT24-21/1B	
RT24-22/1c3	JZR222-6	6.3	270	16	RT24-22/1B	
RT24-316/1c3	JZR231-6	8.8	225	25.6	RT24-316/1B	
RT24-318/1c3	JZR231-8	6.3	175	23.5	RT24-318/1B	
RT24-41/1c3	JZR241-8	8.8	158	38.4	RT24-41/2c3	
RT24-42/2c3	JZR242-8	13	215	39.4	RT24-42/2c3	
RT24-51/2c3	JZR251-8	17.5	205	53.3	RT24-51/2D	
RT24-52/3c3	JZR252-8	23.5	275	54	RT24-52/3D	
RT24-52J/3c3	JZR252-8	23.5	275	54	RT24-52J/3D	图1-2
RT24-61/3c3	JZR261-10	24	140	109	RT24-61/3D	图1-1
RT24-61J/3c3	JZR261-10	24	140	109	RT24-61J/3D	图1-2
RT24-62/3c3	JZR262-10	36	195	116	RT24-62/3D	图1-1
RT24-62J/3c3	JZR262-10	36	195	116	RT24-62J/3D	图1-2
RS22-316/2c3	JZR231-6	11	225	32	RS22-316/2B	图1-5
RS22-318/2c3	JZR231-8	7.5	175	28	RS22-318/2B	
RS22-41/2c3	JZR241-8	11	158	48	RS22-41/2D	

ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)		
RS22-42/3c3	JZR242-8	16	215	48.5	RS22-42/3D	图1-5
RS22-51/3c3	JZR251-8	22	205	67	RS22-51/3D	
RS22-52/3c3	JZR252-8	30	275	69	RS22-52/4D	
RS22-61/3c3	JZR261-10	30	140	136	RS22-61/3D	
RS22-62/4c3	JZR262-10	45	195	145	RS22-62/5D	
RS22-63/5c3	JZR263-10	60	255	155	RS22-63/6D	
RS22-71/5c3	JZR271-10	80	280	178	RS22-71/7D	
RS22-72/7c3	JZR272-10	100	355	176	RS22-72/9D	图1-6
RS22-72J/7c3	JZR272-10	100	355	176	RS22-72J/9D	
RS22-73/9c3	JZR273-10	125	450	170	RS22-73/12D	
RS24-316/2c3	JZR231-6	8.8	225	25.6	RS24-316/2B	图1-5
RS24-41/2c3	JZR241-8	8.8	158	38.4	RS24-41/2D	
RS24-42/3c3	JZR242-8	13	215	39.4	RS24-42/3D	
RS24-51/3c3	JZR251-8	17.5	205	53.3	RS24-51/3D	
RS24-52/3c3	JZR252-8	23.5	275	54	RS24-52/3D	
RS24-61/3c3	JZR261-10	24	140	109	RS24-61/3D	
RS24-62/3c3	JZR262-10	36	195	116	RS24-62/4D	
RS24-63/5c3	JZR263-10	48	255	124	RS24-63/6D	
RS24-71/5c3	JZR271-10	63	280	140	RS24-71/6D	
RS24-72/7c3	JZR272-10	80	355	141	RS24-72/9D	图1-6
RS24-72J/7c3	JZR272-10	80	355	141	RS24-72J/8D	
RS24-73/9c3	JZR273-10	100	450	136	RS24-73/11D	
RY22-316/2c3	JZR231-6	11	225	32	RY22-316/2B	图1-5
RY22-41/2c3	JZR241-8	11	158	48	RY22-41/2D	
RY22-42/3c3	JZR242-8	16	215	48.5	RY22-42/3D	
RY22-51/3c3	JZR251-8	22	205	67	RY22-51/3D	
RY22-52/3c3	JZR252-8	30	275	69	RY22-52/4D	
RY22-61/3c3	JZR261-10	30	140	136	RY22-61/3D	
RY22-62/3c3	JZR262-10	45	195	145	RY22-62/5D	
RY22-63/5c3	JZR263-10	60	255	155	RY22-63/6D	
RY22-71/5c3	JZR271-10	80	280	178	RY22-71/7D	
RY22-72/7c3	JZR272-10	100	355	176	RY22-72/9D	图1-6
RY22-72J/7c3	JZR272-10	100	355	176	RY22-72J/9D	
RY22-73/9c3	JZR273-10	125	450	170	RY22-73/11D	
RY24-316/2c3	JZR231-6	8.8	225	25.6	RY24-316/2B	图1-5

ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)		
RY24-41/2c3	JZR241-8	8.8	158	38.4	RY24-41/2D	图1-5
RY24-42/3c3	JZR242-8	13	215	39.4	RY24-42/3D	
RY24-51/3c3	JZR251-8	17.5	205	53.3	RY24-51/3D	
RY24-52/3c3	JZR252-8	23.5	275	54	RY24-52/4D	
RY24-61/3c3	JZR261-10	24	140	109	RY24-61/3D	
RY24-62/3c3	JZR262-10	36	195	116	RY24-62/5D	
RY24-63/4c3	JZR263-10	48	255	124	RY24-63/5D	
RY24-71/5c3	JZR271-10	63	280	140	RY24-71/7D	
RY24-72/7c3	JZR272-10	80	355	141	RY24-72/9D	
RY24-72J/7c3	JZR272-10	80	355	141	RY24-72J/9D	图1-6
RY24-73/7c3	JZR273-10	100	450	136	RY24-73/9D	
RZ24-42/1c3	JZR242-8	13	215	39.4	RZ24-42/1B	图1-4
RZ24-51/2c3	JZR251-8	17.5	205	53.3	RZ24-51/2D	
RZ24-52/2c3	JZR252-8	23.5	275	54	RZ24-52/2D	
RZ24-61/2c3	JZR261-10	24	140	109	RZ24-61/2D	
RZ24-62/3c3	JZR262-10	36	195	116	RZ24-62/3D	
RZ24-63/3c3	JZR263-10	48	255	124	RZ24-63/4D	
RZ24-71/4c3	JZR271-10	63	280	140	RZ24-71/5D	
RZ24-72/5c3	JZR272-10	80	355	141	RZ24-72/6D	
RZ24-72J/5c3	JZR272-10	80	355	141	RZ24-72J/6D	图1-5
RZ24-73/6c3	JZR273-10	100	450	136	RZ24-73/7D	
RP22-316/2c3	JZR231-6	11	225	32	RP22-316/2B	图1-5
RP22-41/2c3	JZR241-8	11	158	48	RP22-41/2D	
RP22-42/3c3	JZR242-8	16	215	48.5	RP22-42/3D	
RP22-51/3c3	JZR251-8	22	205	67	RP22-51/3D	
RP22-52/4c3	JZR252-8	30	275	69	RP22-52/4D	
RP22-52J/4c3	JZR252-8	30	275	69	RP22-52J/4D	图1-6
RP22-61/4c3	JZR261-10	30	140	136	RP22-61/4D	
RP22-62/4c3	JZR262-10	45	195	145	RP22-62/5D	
RP22-63/6c3	JZR263-10	60	255	155	RP22-63/7D	
RP22-71/7c3	JZR271-10	80	280	178	RP22-71/9D	
RP22-72/9c3	JZR272-10	100	355	176	RP22-72/10D	
RP22-73/10c3	JZR273-10	125	450	170	RP22-73/12D	
RP24-316/2c3	JZR231-6	8.8	225	25.6	RP24-316/2B	图1-5
RP24-41/2c3	JZR241-8	8.8	158	38.4	RP24-41/2D	

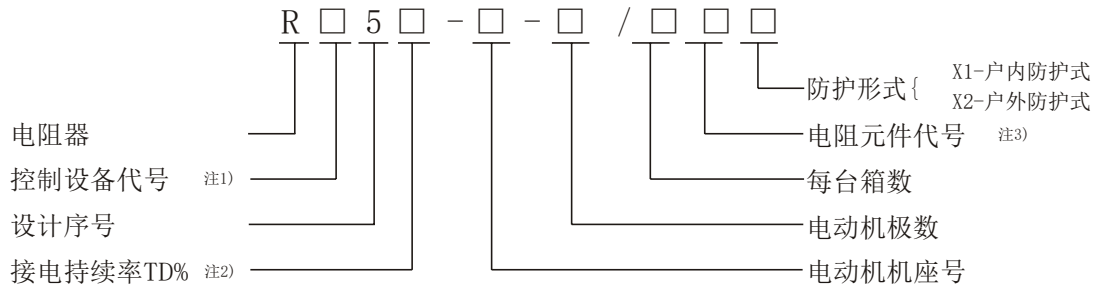
ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)		
RP24-42/3c3	JZR242-8	13	215	39.4	RP24-42/3D	图1-5
RP24-51/3c3	JZR251-8	17.5	205	53.3	RP24-51/3D	
RP24-52/3c3	JZR252-8	23.5	275	54	RP24-52/4D	
RP24-52J/3c3	JZR252-8	23.5	275	54	RP24-52J/4D	图1-6
RP24-61/3c3	JZR261-10	24	140	109	RP24-61/3D	
RP24-62/4c3	JZR262-10	36	195	116	RP24-62/5D	
RP24-63/5c3	JZR263-10	48	255	124	RP24-63/6D	
RP24-71/5c3	JZR271-10	63	280	140	RP24-71/7D	
RP24-72/8c3	JZR272-10	80	355	141	RP24-72/10D	
RP24-73/9c3	JZR273-10	100	450	136	RP24-73/11D	
RQ22-316/3c3	JZR231-6	11	225	32	RQ22-316/3B	图1-7
RQ22-41/3c3	JZR241-8	11	158	48	RQ22-41/3D	
RQ22-42/3c3	JZR242-8	16	215	48.5	RQ22-42/4D	
RQ22-51/3c3	JZR251-8	22	205	67	RQ22-51/4D	
RQ22-52/4c3	JZR252-8	30	275	69	RQ22-52/6D	
RQ22-61/4c3	JZR261-10	30	140	136	RQ22-61/5D	
RQ22-62/5c3	JZR262-10	45	195	145	RQ22-62/6D	
RQ22-63/7c3	JZR263-10	60	255	155	RQ22-63/9D	
RQ22-71/8c3	JZR271-10	80	280	178	RQ22-71/10D	
RQ22-72/9c3	JZR272-10	100	355	176	RQ22-72/12D	
RQ22-73/12c3	JZR273-10	125	450	170	RQ22-73/16D	
RQ24-316/2c3	JZR231-6	8.8	225	25.6	RQ24-316/2B	
RQ24-41/3c3	JZR241-8	8.8	158	38.4	RQ24-41/3D	
RQ24-42/3c3	JZR242-8	13	215	39.4	RQ24-42/4D	
RQ24-51/3c3	JZR251-8	17.5	205	53.3	RQ24-51/4D	
RQ24-52/4c3	JZR252-8	23.5	275	54	RQ24-52/5D	
RQ24-61/3c3	JZR261-10	24	140	109	RQ24-61/4D	
RQ24-62/5c3	JZR262-10	36	195	116	RQ24-62/6D	
RQ24-63/6c3	JZR263-10	48	255	124	RQ24-63/8D	
RQ24-71/7c3	JZR271-10	63	280	140	RQ24-71/9D	
RQ24-72/8c3	JZR272-10	80	355	141	RQ24-72/12D	
RQ24-73/12c3	JZR273-10	100	450	136	RQ24-73/15D	

*注：1) JZR2系列电动机的生产厂家不同，基本参数略有差异，但并不影响电阻器的选用；
 2) JZRH2系列电动机的工作制为40%，由于用量较少，故本册暂无编入与其配套的电阻器，用户如有需要可直接订购。型号举例如：“RY2H-42/3c3、RS2H-52/3c3、RP2H-316/2c3、RQ2H-62/6c3”等。

R□5□系列交流起重机成套电阻器(S3)

R□ 5□ 系列交流起重机成套电阻器主要用作交流起重机通用电控设备配套的YZR系列绕线式异步电动机(S3)的起动、制动与调速电阻。

一、型号含义



注：1) 控制设备代号：

- “T” —KT□凸轮控制器控制，一般用于起升机构；
- “K” —KT□凸轮控制器控制（一相开路），一般用于平移机构；
- “Y” 或 “P” —PQR1、PQR3、PQR5、PQY1~6、QR1~6Y、PQK6401等平移控制屏（柜）控制；
- “S” —PQR2、PQR4、PQS1~3、QR1S等起升控制屏（柜）控制；
- “Z” —PQR6、PQZ1、PQ1Z等抓斗控制屏（柜）控制；
- “Q” —PQK（X、D、R）6402等起升控制屏（柜）控制；
- “F” —QR2S两级反接制动起升控制屏（柜）控制；

2) 接电持续率：

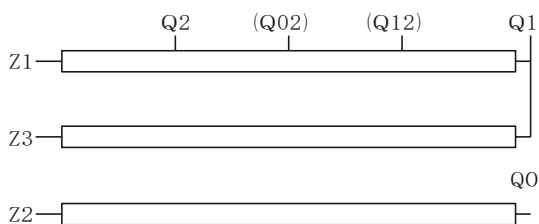
- “1” —15%
- “2” —25%
- “4” —40%
- “6” —60%

3) 电阻元件代号：

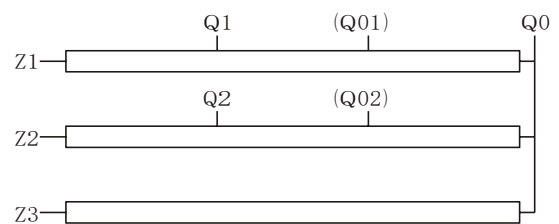
- “B” —ZB1或ZB2型康铜丝（带）绕制的板形电阻元件；
- “D” 或 “Y” —ZD2型铁铬铝带绕制的圆筒形电阻元件；
- “T” —ZT1或ZT2型铸铁电阻元件；
- “J” —ZJ1型铁铬铝带绕制的大波浪形电阻元件；
- “c3” —Zc3型不锈钢板冲制而成的网板形电阻元件。

二、R□5□系列交流起重机成套电阻器新旧型号对照

1. 配KT□系列凸轮控制器用成套电阻器接线原理图：



(图2-1)



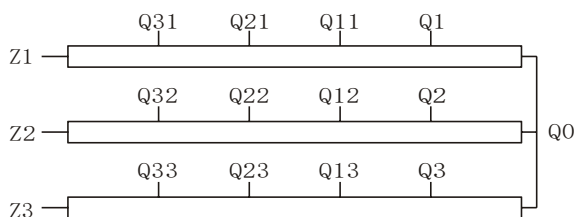
(图2-2)

ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)		
RK51-112M-6/1c3	YZR112M-6	2.2	100	18.4	RK51-112M-6/1B	图2-1
RK51-132M1-6/1c3	YZR132M1-6	3.0	132	16.1	RK51-132M1-6/1B	
RK51-132M2-6/1c3	YZR132M2-6	5.0	185	18.2	RK51-132M2-6/1B	
RK51-160M1-6/1c3	YZR160M1-6	7.5	138	35.4	RK51-160M1-6/1B	
RK51-160M2-6/1c3	YZR160M2-6	11	185	39.6	RK51-160M2-6/1B	
RK51-160L-6/1c3	YZR160L-6	15	250	39	RK51-160L-6/1B	
RK51-180L-6/2c3	YZR180L-6	20	218	58.7	RK51-180L-6/2J	
RK51-200L-6/2c3	YZR200L-6	33	200	68	RK51-200L-6/2J	
RK51-225M-6/2c3	YZR225M-6	40	250	101	RK51-225M-6/2J	
RK51-160L-8/1c3	YZR160L-8	11	205	35.3	RK51-160L-8/1B	
RK51-180L-8/1c3	YZR180L-8	15	172	56	RK51-180L-8/1B	
RK51-200L-8/2c3	YZR200L-8	22	178	81	RK51-200L-8/2J	
RK51-225M-8/2c3	YZR225M-8	33	232	92	RK51-225M-8/2J	
RK51-250M1-8/3c3	YZR250M1-8	42	272	97.5	RK51-250M1-8/3J	
RK52-112M-6/1c3	YZR112M-6	1.8	100	13.4	RK52-112M-6/1B	
RK52-132M1-6/1c3	YZR132M1-6	2.5	132	12.9	RK52-132M1-6/1B	
RK52-132M2-6/1c3	YZR132M2-6	4.0	185	14.2	RK52-132M2-6/1B	
RK52-160M1-6/1c3	YZR160M1-6	6.3	138	29.4	RK52-160M1-6/1B	
RK52-160M2-6/1c3	YZR160M2-6	8.5	185	29.8	RK52-160M2-6/1B	
RK52-160L-6/1c3	YZR160L-6	13	250	31.6	RK52-160L-6/1B	
RK52-180L-6/2c3	YZR180L-6	17	218	49.8	RK52-180L-6/2J	
RK52-200L-6/2c3	YZR200L-6	26	200	82.4	RK52-200L-6/2J	
RK52-225M-6/2c3	YZR225M-6	34	250	85	RK52-225M-6/2J	
RK52-160L-8/1c3	YZR160L-8	9.0	205	28.1	RK52-160L-8/1B	
RK52-180L-8/2c3	YZR180L-8	13	172	47.8	RK52-180L-8/2J	
RK52-200L-8/2c3	YZR200L-8	18.5	178	67.2	RK52-200L-8/2J	
RK52-225M-8/2c3	YZR225M-8	26	232	71.2	RK52-225M-8/2J	
RK52-250M1-8/3c3	YZR250M1-8	35	272	80	RK52-250M1-8/3J	
RK54-112M-6/1c3	YZR112M-6	1.5	100	12.5	RK54-112M-6/1B	
RK54-132M1-6/1c3	YZR132M1-6	2.2	132	12.6	RK54-132M1-6/1B	
RK54-132M2-6/1c3	YZR132M2-6	3.7	185	14.5	RK54-132M2-6/1B	
RK54-160M1-6/1c3	YZR160M1-6	5.5	138	25.7	RK54-160M1-6/1B	
RK54-160M2-6/1c3	YZR160M2-6	7.5	185	26.5	RK54-160M2-6/1B	
RK54-160L-6/1c3	YZR160L-6	11	250	27.6	RK54-160L-6/1B	
RK54-180L-6/2c3	YZR180L-6	15	218	46.5	RK54-180L-6/2J	

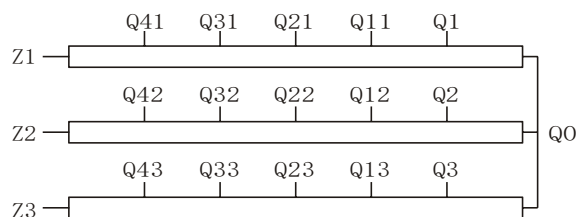
ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)		
RK54-200L-6/3c3	YZR200L-6	22	200	69.9	RK54-200L-6/3J	图2-1
RK54-225M-6/3c3	YZR225M-6	30	250	74.4	RK54-225M-6/3J	
RK54-160L-8/1c3	YZR160L-8	7.5	205	23	RK54-160L-8/1B	
RK54-180L-8/2c3	YZR180L-8	11	172	44	RK54-180L-8/2J	
RK54-200L-8/2c3	YZR200L-8	15	178	53.5	RK54-200L-8/2J	
RK54-225M-8/2c3	YZR225M-8	22	232	59.1	RK54-225M-8/2J	
RK54-250M1-8/3c3	YZR250M1-8	30	272	68.8	RK54-250M1-8/3J	
RT51-112M-6/1c3	YZR112M-6	2.2	100	18.4	RT51-112M-6/1B	图2-2
RT51-132M1-6/1c3	YZR132M1-6	3.0	132	16.1	RT51-132M1-6/1B	
RT51-132M2-6/1c3	YZR132M2-6	5.0	185	18.2	RT51-132M2-6/1B	
RT51-160M1-6/1c3	YZR160M1-6	7.5	138	35.4	RT51-160M1-6/1B	
RT51-160M2-6/1c3	YZR160M2-6	11	185	39.6	RT51-160M2-6/1B	
RT51-160L-6/1c3	YZR160L-6	15	250	39	RT51-160L-6/1B	
RT51-180L-6/2c3	YZR180L-6	20	218	58.7	RT51-180L-6/2J	
RT51-200L-6/2c3	YZR200L-6	33	200	68	RT51-200L-6/2J	
RT51-225M-6/3c3	YZR225M-6	40	250	101	RT51-225M-6/3J	
RT51-160L-8/1c3	YZR160L-8	11	205	35.3	RT51-160L-8/1B	
RT51-180L-8/2c3	YZR180L-8	15	172	56	RT51-180L-8/2J	
RT51-200L-8/2c3	YZR200L-8	22	178	81	RT51-200L-8/2J	
RT51-225M-8/2c3	YZR225M-8	33	232	92	RT51-225M-8/2J	
RT51-250M1-8/2c3	YZR250M1-8	42	272	97.5	RT51-250M1-8/3J	
RT52-112M-6/1c3	YZR112M-6	1.8	100	13.4	RT52-112M-6/1B	
RT52-132M1-6/1c3	YZR132M1-6	2.5	132	12.9	RT52-132M1-6/1B	
RT52-132M2-6/1c3	YZR132M2-6	4.0	185	14.2	RT52-132M2-6/1B	
RT52-160M1-6/1c3	YZR160M1-6	6.3	138	29.4	RT52-160M1-6/1B	
RT52-160M2-6/1c3	YZR160M2-6	8.5	185	29.8	RT52-160M2-6/1B	
RT52-160L-6/2c3	YZR160L-6	13	250	31.6	RT52-160L-6/2B	
RT52-180L-6/2c3	YZR180L-6	17	218	49.8	RT52-180L-6/2J	
RT52-200L-6/3c3	YZR200L-6	26	200	82.4	RT52-200L-6/3J	
RT52-225M-6/3c3	YZR225M-6	34	250	85	RT52-225M-6/3J	
RT52-160L-8/1c3	YZR160L-8	9.0	205	28.1	RT52-160L-8/1B	
RT52-180L-8/2c3	YZR180L-8	13	172	47.8	RT52-180L-8/2J	
RT52-200L-8/2c3	YZR200L-8	18.5	178	67.2	RT52-200L-8/2J	
RT52-225M-8/2c3	YZR225M-8	26	232	71.2	RT52-225M-8/2J	
RT52-250M1-8/3c3	YZR250M1-8	35	272	80	RT52-250M1-8/3J	

ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)		
RT54-112M-6/1c3	YZR112M-6	1.5	100	12.5	RT54-112M-6/1B	图2-2
RT54-132M1-6/1c3	YZR132M1-6	2.2	132	12.6	RT54-132M1-6/1B	
RT54-132M2-6/1c3	YZR132M2-6	3.7	185	14.5	RT54-132M2-6/1B	
RT54-160M1-6/1c3	YZR160M1-6	5.5	138	25.7	RT54-160M1-6/1B	
RT54-160M2-6/1c3	YZR160M2-6	7.5	185	26.5	RT54-160M2-6/1B	
RT54-160L-6/2c3	YZR160L-6	11	250	27.6	RT54-160L-6/2B	
RT54-180L-6/3c3	YZR180L-6	15	218	46.5	RT54-180L-6/3J	
RT54-200L-6/3c3	YZR200L-6	22	200	69.9	RT54-200L-6/3J	
RT54-225M-6/3c3	YZR225M-6	30	250	74.4	RT54-225M-6/3J	
RT54-160L-8/1c3	YZR160L-8	7.5	205	23	RT54-160L-8/1B	
RT54-180L-8/2c3	YZR180L-8	11	172	44	RT54-180L-8/2J	
RT54-200L-8/2c3	YZR200L-8	15	178	53.5	RT54-200L-8/2J	
RT54-225M-8/3c3	YZR225M-8	22	232	59.1	RT54-225M-8/3J	
RT54-250M1-8/3c3	YZR250M1-8	30	272	68.8	RT54-250M1-8/4J	

2 配PQR2、PQR4、QR1S、PQS1~3等系列起升控制屏（柜）用成套电阻器接线原理图：



(图2-3)



(图2-4)

ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)		
RS52-160M2-6/1c3	YZR160M2-6	8.5	185	29.8	RS54-160M2-6/1B	图2-3
RS52-160L-6/2c3	YZR160L-6	13	250	31.6	RS54-160L-6/2B	
RS52-180L-6/3c3	YZR180L-6	17	218	49.8	RS54-180L-6/3J	
RS52-200L-6/3c3	YZR200L-6	26	200	82.4	RS54-200L-6/3J	
RS52-225M-6/3c3	YZR225M-6	34	250	85	RS54-225M-6/4J	
RS52-250M1-6/3c3	YZR250M1-6	42	250	103	RS54-250M1-6/4J	
RS52-250M2-6/4c3	YZR250M2-6	52	290	110	RS54-250M2-6/5J	
RS52-280S-6/5c3	YZR280S-6	63	280	142	RS54-280S-6/6J	

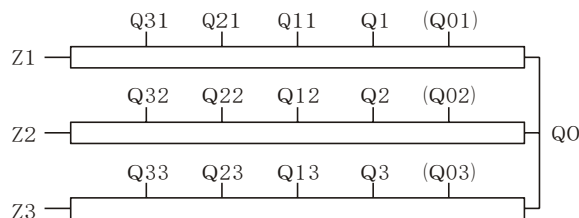
ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)		
RS52-280M-6/5c3	YZR280M-6	85	370	140	RS52-280M-6/7J	图2-3
RS52-160L-8/1c3	YZR160L-8	9.0	205	28.1	RS52-160L-8/1B	
RS52-180L-8/2c3	YZR180L-8	13	172	47.8	RS52-180L-8/2J	
RS52-200L-8/2c3	YZR200L-8	18.5	178	67.2	RS52-200L-8/2J	
RS52-225M-8/3c3	YZR225M-8	26	232	71.2	RS52-225M-8/3J	
RS52-250M1-8/3c3	YZR250M1-8	35	272	80	RS52-250M1-8/4J	
RS52-250M2-8/3c3	YZR250M2-8	42	335	79	RS52-250M2-8/3J	
RS52-280S-8/4c3	YZR280S-8	51	305	108	RS52-280S-8/5J	
RS52-280M-8/5c3	YZR280M-8	63	360	110	RS52-280M-8/6J	
RS52-315S-8/6c3	YZR315S-8	85	302	180	RS52-315S-8/8J	
RS52-315M-8/7c3	YZR315M-8	100	372	183.5	RS52-315M-8/9J	
RS52-280S-10/4c3	YZR280S-10	42	150	177.1	RS52-280S-10/5J	
RS52-280M-10/4c3	YZR280M-10	55	172	207	RS52-280M-10/5J	
RS52-315S-10/5c3	YZR315S-10	63	242	161.9	RS52-315S-10/6J	
RS52-315M-10/7c3	YZR315M-10	85	325	171	RS52-315M-10/7J	
RS52-355M-10/8c3	YZR355M-10	110	330	207	RS52-355M-10/10J	
RS52-355L1-10/9c3	YZR355L1-10	132	388	213	RS52-355L1-10/11J	
RS52-355L2-10/10c3	YZR355L2-10	150	475	194	RS52-355L2-10/13J	
RS52-400L1-10/12c3	YZR400L1-10	190	395	300	RS52-400L1-10/15J	
RS52-400L2-10/15c3	YZR400L2-10	240	460	308	RS52-400L2-10/19J	
RS54-160M2-6/2c3	YZR160M2-6	7.5	185	26.5	RS54-160M2-6/2B	
RS54-160L-6/2c3	YZR160L-6	11	250	27.6	RS54-160L-6/2B	
RS54-180L-6/3c3	YZR180L-6	15	218	46.5	RS54-180L-6/3J	
RS54-200L-6/3c3	YZR200L-6	22	200	69.9	RS54-200L-6/4J	
RS54-225M-6/3c3	YZR225M-6	30	250	74.4	RS54-225M-6/4J	
RS54-250M1-6/4c3	YZR250M1-6	37	250	91.5	RS54-250M1-6/4J	
RS54-250M2-6/5c3	YZR250M2-6	45	290	95	RS54-250M2-6/6J	
RS54-280S-6/6c3	YZR280S-6	55	280	119.8	RS54-280S-6/6J	
RS54-280M-6/7c3	YZR280M-6	75	370	122.6	RS54-280M-6/8J	
RS54-160L-8/2c3	YZR160L-8	7.5	205	23	RS54-160L-8/2B	
RS54-180L-8/2c3	YZR180L-8	11	172	44	RS54-180L-8/2J	
RS54-200L-8/3c3	YZR200L-8	15	178	53.5	RS54-200L-8/3J	
RS54-225M-8/3c3	YZR225M-8	22	232	59.1	RS54-225M-8/3J	
RS54-250M1-8/3c3	YZR250M1-8	30	272	68.8	RS54-250M1-8/4J	
RS54-250M2-8/4c3	YZR250M2-8	37	335	70	RS54-250M1-8/5J	

ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)		
RS54-280S-8/4c3	YZR280S-8	45	305	94	RS54-280S-8/5J	图2-3
RS54-280M-8/5c3	YZR280M-8	55	360	92.5	RS54-280M-8/6J	
RS54-315S-8/7c3	YZR315S-8	75	302	159	RS54-315S-8/9J	
RS54-315M-8/9c3	YZR315M-8	90	372	160.9	RS54-315M-8/12J	
RS54-280S-10/5c3	YZR280S-10	37	150	153.2	RS54-280S-10/6J	
RS54-280M-10/4c3	YZR280M-10	45	172	165	RS54-280M-10/5J	
RS54-315S-10/5c3	YZR315S-10	55	242	138.7	RS54-315S-10/6J	
RS54-315M-10/6c3	YZR315M-10	75	325	149.3	RS54-315M-10/8J	
RS54-355M-10/9c3	YZR355M-10	90	330	166.6	RS54-355M-10/10J	
RS54-355L1-10/10c3	YZR355L1-10	110	388	172	RS54-355L1-10/11J	
RS54-355L2-10/13c3	YZR355L2-10	132	475	167.5	RS54-355L2-10/15J	
RS54-400L1-10/15c3	YZR400L1-10	160	395	250	RS54-400L1-10/18J	
RS54-400L2-10/18c3	YZR400L2-10	200	460	258	RS54-400L2-10/21J	
RS56-160M2-6/2c3	YZR160M2-6	6.3	185	21.7	RS56-160M2-6/2B	
RS56-160L-6/2c3	YZR160L-6	9.0	250	22.3	RS56-160L-6/2B	
RS56-180L-6/3c3	YZR180L-6	13	218	37.3	RS56-180L-6/3J	
RS56-200L-6/3c3	YZR200L-6	19	200	60.5	RS56-200L-6/4J	
RS56-225M-6/3c3	YZR225M-6	26	250	64.5	RS56-225M-6/4J	
RS56-250M1-6/5c3	YZR250M1-6	32	250	79	RS56-250M1-6/5J	
RS56-250M2-6/5c3	YZR250M2-6	39	290	83	RS56-250M2-6/6J	
RS56-280S-6/6c3	YZR280S-6	48	280	107.1	RS56-280S-6/7J	
RS56-280M-6/8c3	YZR280M-6	63	370	104	RS56-280M-6/9J	
RS56-160L-8/2c3	YZR160L-8	6.0	205	18.2	RS56-160L-8/2B	
RS56-180L-8/2c3	YZR180L-8	9.0	172	32.1	RS56-180L-8/2B	
RS56-200L-8/3c3	YZR200L-8	13	178	46.1	RS56-200L-8/3J	
RS56-225M-8/3c3	YZR225M-8	18.5	232	49.5	RS56-225M-8/4J	
RS56-250M1-8/4c3	YZR250M1-8	26	272	59.1	RS56-250M1-8/5J	
RS56-250M2-8/5c3	YZR250M2-8	32	335	60	RS56-250M2-8/6J	
RS54-280S-8/5c3	YZR280S-8	38	305	80	RS54-280S-8/6J	
RS56-280M-8/6c3	YZR280M-8	48	360	82.8	RS56-280M-8/7J	
RS56-315S-8/8c3	YZR315S-8	63	302	132	RS56-315S-8/9J	
RS56-315M-8/10c3	YZR315M-8	75	372	136	RS56-315M-8/13J	
RS56-280S-10/6c3	YZR280S-10	32	150	133.4	RS56-280S-10/7J	
RS56-280M-10/5c3	YZR280M-10	37	172	136	RS56-280M-10/6J	
RS56-315S-10/7c3	YZR315S-10	48	242	122	RS56-315S-10/7J	

ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)		
RS56-315M-10/8c3	YZR315M-10	63	325	124.8	RS56-315M-10/9J	图2-3
RS56-355M-10/10c3	YZR355M-10	75	330	140	RS56-355M-10/12J	
RS56-355L1-10/11c3	YZR355L1-10	90	388	143	RS56-355L1-10/13J	
RS56-355L2-10/15c3	YZR355L2-10	110	475	141.8	RS56-355L2-10/18J	
RS56-400L1-10/18c3	YZR400L1-10	135	395	210	RS56-400L1-10/23J	
RS56-400L2-10/21c3	YZR400L2-10	177	460	224	RS56-400L2-10/25J	
RSf52-280S-6/5c3	YZR280S-6	63	280	142	RSf52-280S-6/6J	图2-4
RSf52-280M-6/6c3	YZR280M-6	85	370	140	RSf52-280M-6/8J	
RSf52-280M-8/6c3	YZR280M-8	63	360	110	RSf52-280M-8/7J	
RSf52-315S-8/7c3	YZR315S-8	85	302	180	RSf52-315S-8/8J	
RSf52-315M-8/9c3	YZR315M-8	100	372	183.5	RSf52-315M-8/10J	
RSf52-315S-10/6c3	YZR315S-10	63	242	161.9	RSf52-315S-10/7J	
RSf52-315M-10/7c3	YZR315M-10	85	325	171	RSf52-315M-10/8J	
RSf52-355M-10/8c3	YZR355M-10	110	330	207	RSf52-355M-10/10J	
RSf52-355L1-10/8c3	YZR355L1-10	132	388	213	RSf52-355L1-10/10J	
RSf52-355L2-10/12c3	YZR355L2-10	150	475	194	RSf52-355L2-10/13J	
RSf52-400L1-10/12c3	YZR400L1-10	190	395	300	RSf52-400L1-10/17J	
RSf52-400L2-10/15c3	YZR400L2-10	240	460	308	RSf52-400L2-10/20J	
RSf54-280S-6/5c3	YZR280S-6	55	280	119.8	RSf54-280S-6/6J	
RSf54-280M-6/8c3	YZR280M-6	75	370	122.6	RSf54-280M-6/9J	
RSf54-280M-8/6c3	YZR280M-8	55	360	92.5	RSf54-280M-8/7J	
RSf54-315S-8/7c3	YZR315S-8	75	302	159	RSf54-315S-8/8J	
RSf54-315M-8/10c3	YZR315M-8	90	372	160.9	RSf54-315M-8/12J	
RSf54-315S-10/6c3	YZR315S-10	55	242	138.7	RSf54-315S-10/8J	
RSf54-315M-10/7c3	YZR315M-10	75	325	149.3	RSf54-315M-10/9J	
RSf54-355M-10/10c3	YZR355M-10	90	330	166.6	RSf54-355M-10/11J	
RSf54-355L1-10/11c3	YZR355L1-10	110	388	172	RSf54-355L1-10/12J	
RSf54-355L2-10/14c3	YZR355L2-10	132	475	167.5	RSf54-355L2-10/15J	
RSf54-400L1-10/16c3	YZR400L1-10	160	395	250	RSf54-400L1-10/20J	
RSf54-400L2-10/16c3	YZR400L2-10	200	460	258	RSf54-400L2-10/20J	
RSf56-280S-6/6c3	YZR280S-6	48	280	107.1	RSf56-280S-6/7J	
RSf56-280M-6/9c3	YZR280M-6	63	370	104	RSf56-280M-6/11J	
RSf56-280M-8/6c3	YZR280M-8	48	360	82.8	RSf56-280M-8/8J	
RSf56-315S-8/7c3	YZR315S-8	63	302	132	RSf56-315S-8/9J	
RSf56-315M-8/10c3	YZR315M-8	75	372	136	RSf56-315M-8/12J	

ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)		
RSf56-315S-10/6c3	YZR315S-10	48	242	122	RSf56-315S-10/7J	图2-4
RSf56-315M-10/8c3	YZR315M-10	63	325	124.8	RSf56-315M-10/10J	
RSf56-355M-10/10c3	YZR355M-10	75	330	140	RSf56-355M-10/12J	
RSf56-355L1-10/12c3	YZR355L1-10	90	388	143	RSf56-355L1-10/14J	
RSf56-355L2-10/14c3	YZR355L2-10	110	475	141.8	RSf56-355L2-10/17J	
RSf56-400L1-10/18c3	YZR400L1-10	135	395	210	RSf56-400L1-10/23J	
RSf56-400L2-10/18c3	YZR400L2-10	177	460	224	RSf56-400L2-10/23J	

3 配PQR1、PQR3、PQR5、QR1~6Y、PQY1~4、PQK6401等系列平移控制屏（柜）用成套电阻器接线原理图：



(图2-5)

ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)		
RY52-112M-6/2c3	YZR112M-6	1.8	100	13.4	RY52-112M-6/2B	图2-5
RY52-132M1-6/2c3	YZR132M1-6	2.5	132	12.9	RY52-132M1-6/2B	
RY52-132M2-6/2c3	YZR132M2-6	4.0	185	14.2	RY52-132M2-6/2B	
RY52-160M1-6/2c3	YZR160M1-6	6.3	138	29.4	RY52-160M1-6/2B	
RY52-160M2-6/2c3	YZR160M2-6	8.5	185	29.8	RY52-160M2-6/2B	
RY52-160L-6/2c3	YZR160L-6	13	250	31.6	RY52-160L-6/2B	
RY52-180L-6/3c3	YZR180L-6	17	218	49.8	RY52-180L-6/3J	
RY52-200L-6/3c3	YZR200L-6	26	200	82.4	RY52-200L-6/4J	
RY52-225M-6/3c3	YZR225M-6	34	250	85	RY52-225M-6/4J	
RY52-250M1-6/3c3	YZR250M1-6	42	250	103	RY52-250M1-6/4J	
RY52-250M2-6/5c3	YZR250M2-6	52	290	110	RY52-250M2-6/6J	
RY52-280S-6/5c3	YZR280S-6	63	280	142	RY52-280S-6/6J	
RY52-280M-6/7c3	YZR280M-6	85	370	140	RY52-280M-6/9c3	
RY52-160L-8/2c3	YZR160L-8	9.0	205	28.1	RY52-160L-8/2B	

ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)		
RY52-180L-8/2c3	YZR180L-8	13	172	47.8	RY52-180L-8/2B	图2-5
RY52-200L-8/3c3	YZR200L-8	18.5	178	67.2	RY52-200L-8/3J	
RY52-225M-8/3c3	YZR225M-8	26	232	71.2	RY52-225M-8/4J	
RY52-250M1-8/3c3	YZR250M1-8	35	272	80	RY52-250M1-8/4J	
RY52-250M2-8/4c3	YZR250M2-8	42	335	79	RY52-250M2-8/5J	
RY52-280S-8/4c3	YZR280S-8	51	305	108	RY52-280S-8/5J	
RY52-280M-8/6c3	YZR280M-8	63	360	110	RY52-280M-8/7J	
RY52-315S-8/7c3	YZR315S-8	85	302	180	RY52-315S-8/8J	
RY52-315M-8/8c3	YZR315M-8	100	372	183.5	RY52-315M-8/10J	
RY52-280S-10/4c3	YZR280S-10	42	150	177.1	RY52-280S-10/5J	
RY52-280M-10/4c3	YZR280M-10	55	172	207	RY52-280M-10/5J	
RY52-315S-10/5c3	YZR315S-10	63	242	161.9	RY52-315S-10/6J	
RY52-315M-10/7c3	YZR315M-10	85	325	171	RY52-315M-10/9J	
RY54-112M-6/2c3	YZR112M-6	1.5	100	12.5	RY54-112M-6/2B	
RY54-132M1-6/2c3	YZR132M1-6	2.2	132	12.6	RY54-132M1-6/2B	
RY54-132M2-6/2c3	YZR132M2-6	3.7	185	14.5	RY54-132M2-6/2B	
RY54-160M1-6/2c3	YZR160M1-6	5.5	138	25.7	RY54-160M1-6/2B	
RY54-160M2-6/2c3	YZR160M2-6	7.5	185	26.5	RY54-160M2-6/2B	
RY54-160L-6/3c3	YZR160L-6	11	250	27.6	RY54-160L-6/3B	
RY54-180L-6/3c3	YZR180L-6	15	218	46.5	RY54-180L-6/4J	
RY54-200L-6/3c3	YZR200L-6	22	200	69.9	RY54-200L-6/4J	
RY54-225M-6/4c3	YZR225M-6	30	250	74.4	RY54-225M-6/5J	
RY54-250M1-6/4c3	YZR250M1-6	37	250	91.5	RY54-250M1-6/5J	
RY54-250M2-6/5c3	YZR250M2-6	45	290	95	RY54-250M2-6/6J	
RY54-280S-6/6c3	YZR280S-6	55	280	119.8	RY54-280S-6/8J	
RY54-280M-6/8c3	YZR280M-6	75	370	122.6	RY54-280M-6/9J	
RY54-160L-8/2c3	YZR160L-8	7.5	205	23	RY54-160L-8/2B	
RY54-180L-8/3c3	YZR180L-8	11	172	44	RY54-180L-8/3B	
RY54-200L-8/3c3	YZR200L-8	15	178	53.5	RY54-200L-8/3J	
RY54-225M-8/3c3	YZR225M-8	22	232	59.1	RY54-225M-8/4J	
RY54-250M1-8/3c3	YZR250M1-8	30	272	68.8	RY54-250M1-8/5J	
RY54-250M2-8/5c3	YZR250M2-8	37	335	70	RY54-250M2-8/6J	
RY54-280S-8/5c3	YZR280S-8	45	305	94	RY54-280S-8/6J	
RY54-280M-8/6c3	YZR280M-8	55	360	92.5	RY54-280M-8/8J	
RY54-315S-8/9c3	YZR315S-8	75	302	159	RY54-315S-8/11J	

ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)		
RY54-315M-8/10c3	YZR315M-8	90	372	160.9	RY54-315M-8/13J	图2-5
RY54-280S-10/4c3	YZR280S-10	37	150	153.2	RY54-280S-10/6J	
RY54-280M-10/5c3	YZR280M-10	45	172	165	RY54-280M-10/6J	
RY54-315S-10/6c3	YZR315S-10	55	242	138.7	RY54-315S-10/8J	
RY54-315M-10/8c3	YZR315M-10	75	325	149.3	RY54-315M-10/9J	
RY56-112M-6/2c3	YZR112M-6	1.1	100	7.3	RY56-112M-6/2B	
RY56-132M1-6/2c3	YZR132M1-6	1.8	132	9.0	RY56-132M1-6/2B	
RY56-132M2-6/2c3	YZR132M2-6	3.0	185	10.2	RY56-132M2-6/2B	
RY56-160M1-6/2c3	YZR160M1-6	5.0	138	22.9	RY56-160M1-6/2B	
RY56-160M2-6/2c3	YZR160M2-6	6.3	185	21.7	RY56-160M2-6/2B	
RY56-160L-6/2c3	YZR160L-6	9.0	250	22.3	RY56-160L-6/2B	
RY56-180L-6/3c3	YZR180L-6	13	218	37.3	RY56-180L-6/3B	
RY56-200L-6/4c3	YZR200L-6	19	200	60.5	RY56-200L-6/5J	
RY56-225M-6/5c3	YZR225M-6	26	250	64.5	RY56-225M-6/6J	
RY56-250M1-6/5c3	YZR250M1-6	32	250	79	RY56-250M1-6/6J	
RY56-250M2-6/6c3	YZR250M2-6	39	290	83	RY56-250M2-6/7J	
RY56-280S-6/7c3	YZR280S-6	48	280	107.1	RY56-280S-6/8J	
RY56-280M-6/8c3	YZR280M-6	63	370	104	RY56-280M-6/9J	
RY56-160L-8/2c3	YZR160L-8	6.0	205	18.2	RY56-160L-8/2B	
RY56-180L-8/3c3	YZR180L-8	9.0	172	32.1	RY56-180L-8/3B	
RY56-200L-8/3c3	YZR200L-8	13	178	46.1	RY56-200L-8/4J	
RY56-225M-8/3c3	YZR225M-8	18.5	232	49.5	RY56-225M-8/4J	
RY56-250M1-8/4c3	YZR250M1-8	26	272	59.1	RY56-250M1-8/6J	
RY56-250M2-8/5c3	YZR250M2-8	32	335	60	RY56-250M2-8/6J	
RY56-280S-8/5c3	YZR280S-8	38	305	80	RY56-280S-8/6J	
RY56-280M-8/6c3	YZR280M-8	48	360	82.8	RY56-280M-8/9J	
RY56-315S-8/9c3	YZR315S-8	63	302	132	RY56-315S-8/10J	
RY56-315M-8/10c3	YZR315M-8	75	372	136	RY56-315M-8/12J	
RY56-280S-10/5c3	YZR280S-10	32	150	133.4	RY56-280S-10/6J	
RY56-280M-10/5c3	YZR280M-10	37	172	136	RY56-280M-10/6J	
RY56-315S-10/7c3	YZR315S-10	48	242	122	RY56-315S-10/9J	
RY56-315M-10/9c3	YZR315M-10	63	325	124.8	RY56-315M-10/11J	

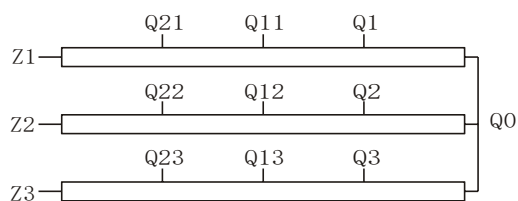
以下为RP5□系列成套电阻器，适用于操作频率高且要求打反档进行反接制动的平移控制系统，如配套QR2Y~6Y系列平移控制屏（柜）等。

ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)		
RP52-160M1-6/2c3	YZR160M1-6	6.3	138	29.4	RP52-160M1-6/2B	图2-5
RP52-160M2-6/2c3	YZR160M2-6	8.5	185	29.8	RP52-160M2-6/2B	
RP52-160L-6/3c3	YZR160L-6	13	250	31.6	RP52-160L-6/3B	
RP52-180L-6/3c3	YZR180L-6	17	218	49.8	RP52-180L-6/3B	
RP52-200L-6/3c3	YZR200L-6	26	200	82.4	RP52-200L-6/4D	
RP52-225M-6/4c3	YZR225M-6	34	250	85	RP52-225M-6/5D	
RP52-250M1-6/5c3	YZR250M1-6	42	250	103	RP52-250M1-6/6D	
RP52-250M2-6/5c3	YZR250M2-6	52	290	110	RP52-250M2-6/6D	
RP52-280S-6/7c3	YZR280S-6	63	280	142	RP52-280S-6/9D	
RP52-280M-6/9c3	YZR280M-6	85	370	140	RP52-280M-6/11D	
RP52-160L-8/2c3	YZR160L-8	9.0	205	28.1	RP52-160L-8/2B	
RP52-180L-8/3c3	YZR180L-8	13	172	47.8	RP52-180L-8/3D	
RP52-200L-8/3c3	YZR200L-8	18.5	178	67.2	RP52-200L-8/3D	
RP52-225M-8/4c3	YZR225M-8	26	232	71.2	RP52-225M-8/5D	
RP52-250M1-8/5c3	YZR250M1-8	35	272	80	RP52-250M1-8/6D	
RP52-250M2-8/6c3	YZR250M2-8	42	335	79	RP52-250M2-8/7D	
RP52-280S-8/5c3	YZR280S-8	51	305	108	RP52-280S-8/6D	
RP52-280M-8/7c3	YZR280M-8	63	360	110	RP52-280M-8/8D	
RP52-315S-8/10c3	YZR315S-8	85	302	180	RP52-315S-8/12D	
RP52-315M-8/12c3	YZR315M-8	100	372	183.5	RP52-315M-8/15D	
RP52-280S-10/5c3	YZR280S-10	42	150	177.1	RP52-280S-10/6D	
RP52-280M-10/6c3	YZR280M-10	55	172	207	RP52-280M-10/7D	
RP52-315S-10/8c3	YZR315S-10	63	242	161.9	RP52-315S-10/9D	
RP52-315M-10/9c3	YZR315M-10	85	325	171	RP52-315M-10/11D	
RP54-160M1-6/2c3	YZR160M1-6	5.5	138	25.7	RP54-160M1-6/3D	
RP54-160M2-6/3c3	YZR160M2-6	7.5	185	26.5	RP54-160M2-6/4D	
RP54-160L-6/4c3	YZR160L-6	11	250	27.6	RP54-160L-6/5D	
RP54-180L-6/3c3	YZR180L-6	15	218	46.5	RP54-180L-6/4D	
RP54-200L-6/4c3	YZR200L-6	22	200	69.9	RP54-200L-6/5D	
RP54-225M-6/6c3	YZR225M-6	30	250	74.4	RP54-225M-6/7D	

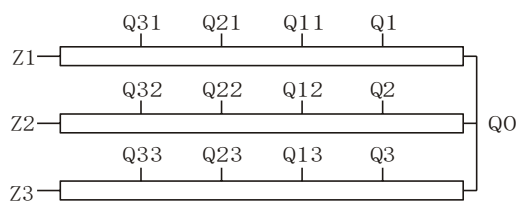
ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)		
RP54-250M1-6/5c3	YZR250M1-6	37	250	91.5	RP54-250M1-6/6D	图2-5
RP54-250M2-6/8c3	YZR250M2-6	45	290	95	RP54-250M2-6/9D	
RP54-280S-6/8c3	YZR280S-6	55	280	119.8	RP54-280S-6/10D	
RP54-280M-6/10c3	YZR280M-6	75	370	122.6	RP54-280M-6/12D	
RP54-160L-8/2c3	YZR160L-8	7.5	205	23	RP54-160L-8/2B	
RP54-180L-8/3c3	YZR180L-8	11	172	44	RP54-180L-8/3B	
RP54-200L-8/4c3	YZR200L-8	15	178	53.5	RP54-200L-8/5D	
RP54-225M-8/5c3	YZR225M-8	22	232	59.1	RP54-225M-8/6D	
RP54-250M1-8/6c3	YZR250M1-8	30	272	68.8	RP54-250M1-8/8D	
RP54-250M2-8/7c3	YZR250M2-8	37	335	70	RP54-250M2-8/8D	
RP54-280S-8/7c3	YZR280S-8	45	305	94	RP54-280S-8/8D	
RP54-280M-8/8c3	YZR280M-8	55	360	92.5	RP54-280M-8/9D	
RP54-315S-8/12c3	YZR315S-8	75	302	159	RP54-315S-8/15D	
RP54-315M-8/15c3	YZR315M-8	90	372	160.5	RP54-315M-8/18D	
RP54-280S-10/6c3	YZR280S-10	37	150	153.2	RP54-280S-10/8D	
RP54-280M-10/7c3	YZR280M-10	45	172	165	RP54-280M-10/9D	
RP54-315S-10/9c3	YZR315S-10	55	242	138.7	RP54-315S-10/11D	
RP54-315M-10/12c3	YZR315M-10	75	325	149.3	RP54-315M-10/15D	
RP56-160M1-6/2c3	YZR160M1-6	5.0	138	22.9	RP56-160M1-6/3B	
RP56-160M2-6/3c3	YZR160M2-6	6.3	185	21.7	RP56-160M2-6/3B	
RP56-160L-6/3c3	YZR160L-6	9.0	250	22.3	RP56-160L-6/3B	
RP56-180L-6/4c3	YZR180L-6	13	218	37.3	RP56-180L-6/5D	
RP56-200L-6/5c3	YZR200L-6	19	200	60.5	RP56-200L-6/6D	
RP56-225M-6/6c3	YZR225M-6	26	250	64.5	RP56-225M-6/8D	
RP56-250M1-6/7c3	YZR250M1-6	32	250	79	RP56-250M1-6/8D	
RP56-250M2-6/8c3	YZR250M2-6	39	290	83	RP56-250M2-6/10D	
RP56-280S-6/9c3	YZR280S-6	48	280	107.1	RP56-280S-6/11D	
RP56-160L-8/2c3	YZR160L-8	6.0	205	18.2	RP56-160L-8/3B	
RP56-180L-8/3c3	YZR180L-8	9.0	172	32.1	RP56-180L-8/4D	
RP56-200L-8/3c3	YZR200L-8	13	178	46.1	RP56-200L-8/4D	
RP56-225M-8/5c3	YZR225M-8	18.5	232	49.5	RP56-225M-8/6D	
RP56-250M1-8/6c3	YZR250M1-8	26	272	59.1	RP56-250M1-8/8D	
RP56-250M2-8/6c3	YZR250M2-8	32	335	60	RP56-250M2-8/8D	
RP56-280S-8/9c3	YZR280S-8	38	305	80	RP56-280S-8/11D	
RP56-280M-8/10c3	YZR280M-8	48	360	82.8	RP56-280M-8/13D	

ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)		
RP56-315S-8/12c3	YZR315S-8	63	302	132	RP56-315S-8/15D	图2-5
RP56-280S-10/7c3	YZR280S-10	32	150	133.4	RP56-280S-10/9D	
RP56-280M-10/9c3	YZR280M-10	37	172	136	RP56-280M-10/11D	
RP56-315S-10/10c3	YZR315S-10	48	242	122	RP56-315S-10/12D	
RP56-315M-10/12c3	YZR315M-10	63	325	124.8	RP56-315M-10/15D	

4 配PQR6、QR1Z、PQZ1等系列抓斗控制屏（柜）用成套电阻器接线原理图：



(图2-6)



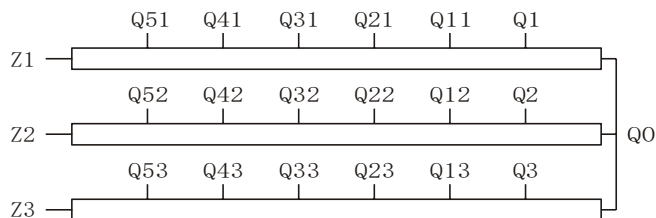
(图2-7)

ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)		
RZ54-160M1-6/1c3	YZR160M1-6	5.5	138	25.7	RZ54-160M1-6/1B	图2-6
RZ54-160M2-6/1c3	YZR160M2-6	7.5	185	26.5	RZ54-160M2-6/1B	
RZ54-160L-6/2c3	YZR160L-6	11	250	27.6	RZ54-160L-6/2B	
RZ54-180L-6/2c3	YZR180L-6	15	218	46.5	RZ54-180L-6/2J	
RZ54-200L-6/3c3	YZR200L-6	22	200	69.9	RZ54-200L-6/3J	
RZ54-225M-6/3c3	YZR225M-6	30	250	74.4	RZ54-225M-6/3J	
RZ54-250M1-6/3c3	YZR250M1-6	37	250	91.5	RZ54-250M1-6/3J	
RZ54-250M2-6/3c3	YZR250M2-6	45	290	95	RZ54-250M2-6/4J	
RZ54-280S-6/4c3	YZR280S-6	55	280	119.8	RZ54-280S-6/5J	
RZ54-280M-6/5c3	YZR280M-6	75	370	122.6	RZ54-280M-6/6J	
RZ54-160L-8/1c3	YZR160L-8	7.5	205	23	RZ54-160L-8/1B	
RZ54-180L-8/2c3	YZR180L-8	11	172	44	RZ54-180L-8/2J	
RZ54-200L-8/2c3	YZR200L-8	15	178	53.5	RZ54-200L-8/2J	
RZ54-225M-8/3c3	YZR225M-8	22	232	59.1	RZ54-225M-8/3J	
RZ54-250M1-8/3c3	YZR250M1-8	30	272	68.8	RZ54-250M1-8/3J	
RZ54-250M2-8/3c3	YZR250M2-8	37	335	70	RZ54-250M2-8/3J	
RZ54-280S-8/3c3	YZR280S-8	45	305	94	RZ54-280S-8/3J	

ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)		
RZ54-280M-8/3c3	YZR280M-8	55	360	92.5	RZ54-280M-8/4J	图2-6
RZ54-315S-8/5c3	YZR315S-8	75	302	159	RZ54-315S-8/6J	
RZ54-315M-8/6c3	YZR315M-8	90	160.9	372	RZ54-315M-8/7J	
RZ54-280S-10/3c3	YZR280S-10	37	150	153.2	RZ54-280S-10/4J	
RZ54-280M-10/3c3	YZR280M-10	45	172	165	RZ54-280M-10/4J	
RZ54-315S-10/4c3	YZR315S-10	55	242	138.7	RZ54-315S-10/5J	
RZ54-315M-10/5c3	YZR315M-10	75	325	149.3	RZ54-315M-10/6J	
RZ54-355M-10/7c3	YZR355M-10	90	330	166.6	RZ54-355M-10/9J	
RZ54-355L1-10/9c3	YZR355L1-10	110	388	172	RZ54-355L1-10/12J	
RZ54-355L2-10/10c3	YZR355L2-10	132	475	167.5	RZ54-355L2-10/13J	
RZ56-160M2-6/1c3	YZR160M2-6	6.3	185	21.7	RZ56-160M2-6/1B	
RZ56-160L-6/2c3	YZR160L-6	9.0	250	22.3	RZ56-160L-6/2B	
RZ56-180L-6/2c3	YZR180L-6	13	218	37.3	RZ56-180L-6/2J	
RZ56-200L-6/3c3	YZR200L-6	19	200	60.5	RZ56-200L-6/3J	
RZ56-225M-6/3c3	YZR225M-6	26	250	64.5	RZ56-225M-6/3J	
RZ56-250M1-6/3c3	YZR250M1-6	32	250	79	RZ56-250M1-6/4J	
RZ56-250M2-6/4c3	YZR250M2-6	39	290	83	RZ56-250M2-6/5J	
RZ56-280S-6/4c3	YZR280S-6	48	280	107.1	RZ56-280S-6/5J	
RZ56-280M-6/5c3	YZR280M-6	63	370	104	RZ56-280M-6/6J	
RZ56-160L-8/1c3	YZR160L-8	6.0	205	18.2	RZ56-160L-8/1B	
RZ56-180L-8/2c3	YZR180L-8	9.0	172	32.1	RZ56-180L-8/2J	
RZ56-200L-8/2c3	YZR200L-8	13	178	46.1	RZ56-200L-8/2J	
RZ56-225M-8/3c3	YZR225M-8	18.5	232	49.5	RZ56-225M-8/3J	
RZ56-250M1-8/3c3	YZR250M1-8	26	272	59.1	RZ56-250M1-8/3J	
RZ56-250M2-8/3c3	YZR250M2-8	32	335	60	RZ56-250M2-8/4J	
RZ56-280S-8/4c3	YZR280S-8	38	305	80	RZ56-280S-8/5J	
RZ56-280M-8/5c3	YZR280M-8	48	360	82.8	RZ56-280M-8/6J	
RZ56-315S-8/5c3	YZR315S-8	63	302	132	RZ56-315S-8/7J	
RZ56-315M-8/6c3	YZR315M-8	75	372	136	RZ56-315M-8/8J	
RZ56-280S-10/3c3	YZR280S-10	32	150	133.4	RZ56-280S-10/4J	
RZ56-280M-10/3c3	YZR280M-10	37	172	136	RZ56-280M-10/5J	
RZ56-315S-10/5c3	YZR315S-10	48	242	122	RZ56-315S-10/6J	
RZ56-315M-10/6c3	YZR315M-10	63	325	124.8	RZ56-315M-10/7J	
RZ56-355M-10/8c3	YZR355M-10	75	330	140	RZ56-355M-10/10J	
RZ56-315L1-10/9c3	YZR355L1-10	90	388	143	RZ56-315L1-10/13J	

ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)		
RZ56-355L2-10/12c3	YZR355L2-10	110	475	141.8	RZ56-355L2-10/16J	图2-6
RZe54-280S-6/4c3	YZR280S-6	55	280	119.8	RZe54-280S-6/5J	图2-7
RZe54-280M-6/5c3	YZR280M-6	75	370	122.6	RZe54-280M-6/6J	
RZe54-280M-8/5c3	YZR280M-8	55	360	92.5	RZe54-280M-8/6J	
RZe54-315S-8/5c3	YZR315S-8	75	302	159	RZe54-315S-8/7J	
RZe54-315M-8/6c3	YZR315M-8	90	372	160.9	RZe54-315M-8/9J	
RZe54-315S-10/5c3	YZR315S-10	55	242	138.7	RZe54-315S-10/6J	
RZe54-315M-10/6c3	YZR315M-10	75	325	149.3	RZe54-315M-10/7J	
RZe54-355M-10/7c3	YZR355M-10	90	330	166.6	RZe54-355M-10/8J	
RZe54-355L1-10/8c3	YZR355L1-10	110	388	172	RZe54-355L1-10/9J	
RZe54-355L2-10/10c3	YZR355L2-10	132	475	167.5	RZe54-355L2-10/11J	
RZe56-280S-6/4c3	YZR280S-6	48	280	107.1	RZe56-280S-6/5J	
RZe56-280M-6/6c3	YZR280M-6	63	370	104	RZe56-280M-6/8J	
RZe56-280M-8/5c3	YZR280M-8	48	360	82.8	RZe56-280M-8/6J	
RZe56-315S-8/6c3	YZR315S-8	63	302	132	RZe56-315S-8/8J	
RZe56-315M-8/9c3	YZR315M-8	75	372	136	RZe56-315M-8/11J	
RZe56-315S-10/5c3	YZR315S-10	48	242	122	RZe56-315S-10/6J	
RZe56-315M-10/7c3	YZR315M-10	63	325	124.8	RZe56-315M-10/9J	
RZe56-355M-10/8c3	YZR355M-10	75	330	140	RZe56-355M-10/9J	
RZe56-315L1-10/9c3	YZR355L1-10	90	388	143	RZe56-315L1-10/11J	
RZe56-315L2-10/10c3	YZR355L2-10	110	475	141.8	RZe56-315L2-10/12J	

5 配PQK (X、D、R) 6401等系列起升控制屏 (柜) 用成套电阻器接线原理图:



(图2-8)

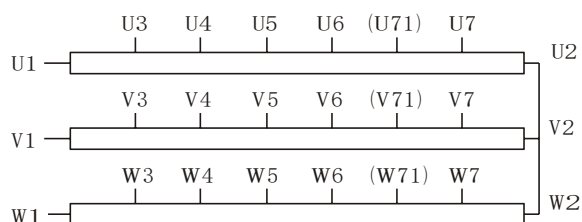
ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)		
RQ52-180L-6/3c3	YZR180L-6	17	218	49.8	RQ52-180L-6/5J	图2-8
RQ52-200L-6/4c3	YZR200L-6	26	200	82.4	RQ52-200L-6/6J	
RQ52-225M-6/5c3	YZR225M-6	34	250	85	RQ52-225M-6/6J	
RQ52-250M1-6/5c3	YZR250M1-6	42	250	103	RQ52-250M1-6/6J	
RQ52-250M2-6/6c3	YZR250M2-6	52	290	110	RQ52-250M2-6/7J	
RQ52-280S-6/7c3	YZR280S-6	63	280	142	RQ52-280S-6/8J	
RQ52-280M-6/9c3	YZR280M-6	85	370	140	RQ52-280M-6/12J	
RQ52-160L-8/2c3	YZR160L-8	9.0	205	28.1	RQ52-160L-8/2B	
RQ52-180L-8/3c3	YZR180L-8	13	172	47.8	RQ52-180L-8/3J	
RQ52-200L-8/3c3	YZR200L-8	18.5	178	67.2	RQ52-200L-8/4J	
RQ52-225M-8/3c3	YZR225M-8	26	232	71.2	RQ52-225M-8/4J	
RQ52-250M1-8/6c3	YZR250M1-8	35	272	80	RQ52-250M1-8/6J	
RQ52-250M2-8/5c3	YZR250M2-8	42	335	79	RQ52-250M2-8/6J	
RQ52-280S-8/5c3	YZR280S-8	51	305	108	RQ52-280S-8/6J	
RQ52-280M-8/7c3	YZR280M-8	63	360	110	RQ52-280M-8/9J	
RQ52-315S-8/9c3	YZR315S-8	85	302	180	RQ52-315S-8/10J	
RQ52-315M-8/10c3	YZR315M-8	100	372	183.5	RQ52-315M-8/12J	
RQ52-280S-10/6c3	YZR280S-10	42	150	177.1	RQ52-280S-10/8J	
RQ52-280M-10/6c3	YZR280M-10	55	172	207	RQ52-280M-10/8J	
RQ52-315S-10/7c3	YZR315S-10	63	242	161.9	RQ52-315S-10/9J	
RQ52-315M-10/10c3	YZR315M-10	85	325	171	RQ52-315M-10/10J	
RQ52-355M-10/12c3	YZR355M-10	110	330	207	RQ52-355M-10/15J	
RQ52-355L1-10/13c3	YZR355L1-10	132	388	213	RQ52-355L1-10/16J	
RQ52-355L2-10/18c3	YZR355L2-10	150	475	194	RQ52-355L2-10/19J	
RQ52-400L1-10/20c3	YZR400L1-10	190	395	300	RQ52-400L1-10/23J	
RQ52-400L2-10/24c3	YZR400L2-10	240	460	308	RQ52-400L2-10/26J	
RQ54-180L-6/4c3	YZR180L-6	15	218	46.5	RQ54-180L-6/5J	
RQ54-200L-6/4c3	YZR200L-6	22	200	69.9	RQ54-200L-6/5J	
RQ54-225M-6/5c3	YZR225M-6	30	250	74.4	RQ54-225M-6/6J	
RQ54-250M1-6/5c3	YZR250M1-6	37	250	91.5	RQ54-250M1-6/6J	
RQ54-250M2-6/7c3	YZR250M2-6	45	290	95	RQ54-250M2-6/9J	
RQ54-280S-6/8c3	YZR280S-6	55	280	119.8	RQ54-280S-6/9J	
RQ54-280M-6/11c3	YZR280M-6	75	370	122.6	RQ54-280M-6/14J	
RQ54-160L-8/3c3	YZR160L-8	7.5	205	23	RQ54-160L-8/3B	
RQ54-180L-8/3c3	YZR180L-8	11	172	44	RQ54-180L-8/3J	

ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)		
RQ54-200L-8/3c3	YZR200L-8	15	178	53.5	RQ54-200L-8/4J	
RQ54-225M-8/5c3	YZR225M-8	22	232	59.1	RQ54-225M-8/6J	
RQ54-250M1-8/5c3	YZR250M1-8	30	272	68.8	RQ54-250M1-8/6J	
RQ54-250M2-8/6c3	YZR250M2-8	37	335	70	RQ54-250M2-8/8J	
RQ54-280S-8/6c3	YZR280S-8	45	305	94	RQ54-280S-8/7J	
RQ54-280M-8/7c3	YZR280M-8	55	360	92.5	RQ54-280M-8/7J	
RQ54-315S-8/10c3	YZR315S-8	75	302	159	RQ54-315S-8/12J	
RQ54-315M-8/11c3	YZR315M-8	90	372	160.5	RQ54-315M-8/13J	
RQ54-280S-10/6c3	YZR280S-10	37	150	153.2	RQ54-280S-10/8J	
RQ54-280M-10/7c3	YZR280M-10	45	172	165	RQ54-280M-10/9J	
RQ54-315S-10/8c3	YZR315S-10	55	242	138.7	RQ54-315S-10/10J	
RQ54-315M-10/10c3	YZR315M-10	75	325	149.3	RQ54-315M-10/12J	
RQ54-355M-10/14c3	YZR355M-10	90	330	166.6	RQ54-355M-10/16J	
RQ54-355L1-10/16c3	YZR355L1-10	110	388	172	RQ54-355L1-10/18J	
RQ54-355L2-10/19c3	YZR355L2-10	132	475	167.5	RQ54-355L2-10/24J	
RQ54-400L1-10/24c3	YZR400L1-10	160	395	250	RQ54-400L1-10/27J	
RQ54-400L2-10/27c3	YZR400L2-10	200	460	258	RQ54-400L2-10/29J	
RQ56-180L-6/3c3	YZR180L-6	13	218	37.3	RQ56-180L-6/4J	
RQ56-200L-6/4c3	YZR200L-6	19	200	60.5	RQ56-200L-6/5J	
RQ56-225M-6/5c3	YZR225M-6	26	250	64.5	RQ56-225M-6/6J	
RQ56-250M1-6/6c3	YZR250M1-6	32	250	79	RQ56-250M1-6/8J	
RQ56-250M2-6/7c3	YZR250M2-6	39	290	83	RQ56-250M2-6/9J	
RQ56-280S-6/9c3	YZR280S-6	48	280	107.1	RQ56-280S-6/11J	
RQ56-280M-6/12c3	YZR280M-6	63	370	104	RQ56-280M-6/15J	
RQ56-160L-8/2c3	YZR160L-8	6.0	205	18.2	RQ56-160L-8/2B	
RQ56-180L-8/3c3	YZR180L-8	9.0	172	32.1	RQ56-180L-8/3B	
RQ56-200L-8/3c3	YZR200L-8	13	178	46.1	RQ56-200L-8/4J	
RQ56-225M-8/4c3	YZR225M-8	18.5	232	49.5	RQ56-225M-8/6J	
RQ56-250M1-8/5c3	YZR250M1-8	26	272	59.1	RQ56-250M1-8/7J	
RQ56-250M2-8/7c3	YZR250M2-8	32	335	60	RQ56-250M2-8/9J	
RQ56-280S-8/8c3	YZR280S-8	38	305	80	RQ56-280S-8/9J	
RQ56-280M-8/9c3	YZR280M-8	48	360	82.8	RQ56-280M-8/11J	
RQ56-315S-8/10c3	YZR315S-8	63	302	132	RQ56-315S-8/13J	
RQ56-315M-8/12c3	YZR315M-8	75	372	136	RQ56-315M-8/15J	
RQ56-280S-10/6c3	YZR280S-10	32	150	133.4	RQ56-280S-10/7J	

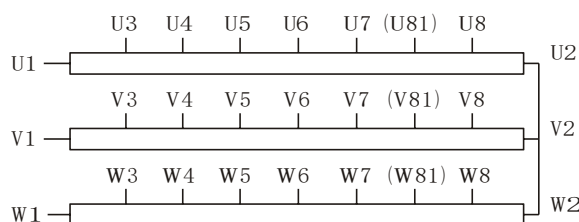
图2-8

ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)		
RQ56-280S-10/9c3	YZR280S-10	37	172	136	RQ56-280S-10/12J	图2-8
RQ56-280M-10/8c3	YZR280M-10	48	242	122	RQ56-280M-10/11J	
RQ56-315M-10/13c3	YZR315M-10	63	325	124.8	RQ56-315M-10/15J	
RQ56-355M-10/13c3	YZR355M-10	75	330	140	RQ56-355M-10/18J	
RQ56-315L1-10/16c3	YZR355L1-10	90	388	143	RQ56-315L1-10/23J	
RQ56-315L2-10/19c3	YZR355L2-10	110	475	141.8	RQ56-315L2-10/25J	
RQ56-400L1-10/25c3	YZR400L1-10	135	395	201	RQ56-400L1-10/30J	
RQ56-400L2-10/26c3	YZR400L2-10	177	460	224	RQ56-400L2-10/31J	

6 配QR2S系列两级反接制动起升控制屏（柜）用成套电阻器接线原理图：



(图2-9)



(图2-10)

[注：第1级转矩为0.35，第2级转矩为0.62或0.70]

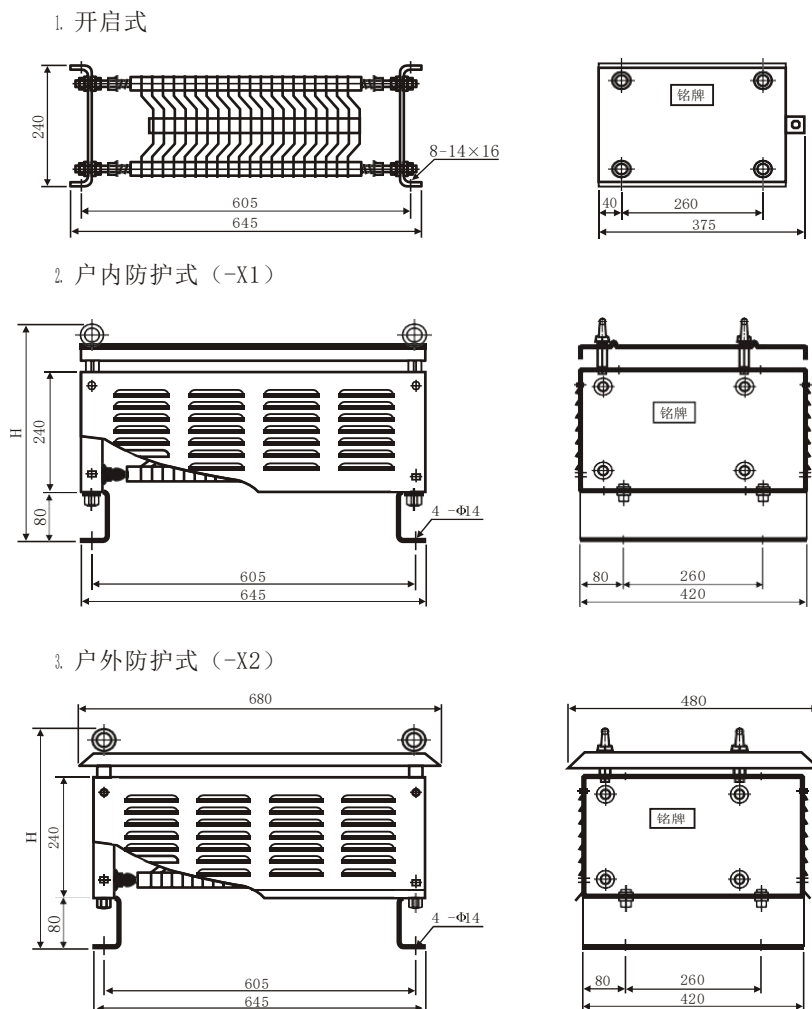
ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)		
RF52-160M1-6/2c3	YZR160M1-6	6.3	138	29.4	RF52-160M1-6/2B	图2-9
RF52-160M2-6/2c3	YZR160M2-6	8.5	185	29.8	RF52-160M2-6/2B	
RF52-160L-6/2c3	YZR160L-6	13	250	31.6	RF52-160L-6/2B	
RF52-180L-6/3c3	YZR180L-6	17	218	49.8	RF52-180L-6/4J	
RF52-200L-6/3c3	YZR200L-6	26	200	82.4	RF52-200L-6/4J	
RF52-225M-6/3c3	YZR225M-6	34	250	85	RF52-225M-6/4J	
RF52-250M1-6/4c3	YZR250M1-6	42	250	103	RF52-250M1-6/5J	
RF52-250M2-6/5c3	YZR250M2-6	52	290	110	RF52-250M2-6/6J	
RF52-280S-6/5c3	YZR280S-6	63	280	142	RF52-280S-6/6J	
RF52-280M-6/8c3	YZR280M-6	85	370	140	RF52-280M-6/9J	
RF52-160L-8/2c3	YZR160L-8	9.0	205	28.1	RF52-160L-8/2B	
RF52-180L-8/3c3	YZR180L-8	13	172	47.8	RF52-180L-8/3J	

ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)		
RF52-200L-8/3c3	YZR200L-8	18.5	178	67.2	RF52-200L-8/3J	图2-9
RF52-225M-8/4c3	YZR225M-8	26	232	71.2	RF52-225M-8/4J	
RF52-250M1-8/4c3	YZR250M1-8	35	272	80	RF52-250M1-8/5J	
RF52-250M2-8/5c3	YZR250M2-8	42	335	79	RF52-250M2-8/6J	
RF52-280S-8/5c3	YZR280S-8	51	305	108	RF52-280S-8/6J	
RF52-280M-8/6c3	YZR280M-8	63	360	110	RF52-280M-8/8J	
RF52-315S-8/7c3	YZR315S-8	85	302	180	RF52-315S-8/9J	
RF52-315M-8/9c3	YZR315M-8	100	372	183.5	RF52-315M-8/11J	图2-10
RF52-315M-8J/10c3	YZR315M-8	100	372	183.5	RF52-315M-8J/13J	
RF52-280S-10/5c3	YZR280S-10	42	150	177.1	RF52-280S-10/6J	图2-9
RF52-280M-10/5c3	YZR280M-10	55	172	207	RF52-280M-10/5J	
RF52-315S-10/6c3	YZR315S-10	63	242	161.9	RF52-315S-10/7J	
RF52-315M-10/7c3	YZR315M-10	85	325	171	RF52-315M-10/8J	
RF52-355M-10/9c3	YZR355M-10	110	330	207	RF52-355M-10/13J	
RF52-355M-10J/9c3	YZR355M-10	110	330	207	RF52-355M-10J/12J	图2-10
RF52-355L1-10J/10c3	YZR355L1-10	132	388	213	RF52-355L1-10J/12J	
RF52-355L2-10J/11c3	YZR355L2-10	150	475	194	RF52-355L2-10J/15J	
RF52-400L1-10J/16c3	YZR400L1-10	190	395	300	RF52-400L1-10J/18J	
RF52-400L2-10J/18c3	YZR400L2-10	240	460	308	RF52-400L2-10J/23J	
RF54-160M1-6/2c3	YZR160M1-6	5.5	138	25.7	RF54-160M1-6/2B	图2-9
RF54-160M2-6/2c3	YZR160M2-6	7.5	185	26.5	RF54-160M2-6/2B	
RF54-160L-6/2c3	YZR160L-6	11	250	27.6	RF54-160L-6/2B	
RF54-180L-6/3c3	YZR180L-6	15	218	46.5	RF54-180L-6/4J	
RF54-200L-6/4c3	YZR200L-6	22	200	69.9	RF54-200L-6/5J	
RF54-225M-6/4c3	YZR225M-6	30	250	74.4	RF54-225M-6/5J	
RF54-250M1-6/5c3	YZR250M1-6	37	250	91.5	RF54-250M1-6/6J	
RF54-250M2-6/6c3	YZR250M2-6	45	290	95	RF54-250M2-6/8J	
RF54-280S-6/6c3	YZR280S-6	55	280	119.8	RF54-280S-6/7J	
RF54-280M-6/8c3	YZR280M-6	75	370	122.6	RF54-280M-6/9J	
RF54-160L-8/2c3	YZR160L-8	7.5	205	23	RF54-160L-8/2B	
RF54-180L-8/3c3	YZR180L-8	11	172	44	RF54-180L-8/3J	
RF54-200L-8/3c3	YZR200L-8	15	178	53.5	RF54-200L-8/4J	
RF54-225M-8/4c3	YZR225M-8	22	232	59.1	RF54-225M-8/5J	
RF54-250M1-8/5c3	YZR250M1-8	30	272	68.8	RF54-250M1-8/6J	
RF54-250M2-8/5c3	YZR250M2-8	37	335	70	RF54-250M2-8/6J	

ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)		
RF54-280S-8/6c3	YZR280S-8	45	305	94	RF54-280S-8/7J	图2-9
RF54-280M-8/6c3	YZR280M-8	55	360	92.5	RF54-280M-8/8J	
RF54-315S-8/9c3	YZR315S-8	75	302	159	RF54-315S-8/12J	
RF54-315M-8/10c3	YZR315M-8	90	372	160.9	RF54-315M-8/13J	
RF54-315M-8J/10c3	YZR280S-10	90	372	160.9	RF54-315M-8J/12J	图2-10
RF54-280S-10/5c3	YZR280M-10	37	150	153.2	RF54-280S-10/7J	图2-9
RF54-280M-10/5c3	YZR315S-10	45	172	165	RF54-280M-10/6J	
RF54-315S-10/6c3	YZR315M-10	55	242	138.7	RF54-315S-10/8J	
RF54-315M-10/8c3	YZR355M-10	75	325	149.3	RF54-315M-10/10J	
RF54-355M-10/9c3	YZR355M-10	90	330	166.6	RF54-355M-10/14J	
RF54-355M-10J/10c3	YZR355M-10	90	330	166.6	RF54-355M-10J/13J	图2-10
RF54-355L1-10J/11c3	YZR355L1-10	110	388	172	RF54-355L1-10J/13J	
RF54-355L2-10J/13c3	YZR355L2-10	132	475	167.5	RF54-355L2-10J/17J	
RF54-400L1-10J/18c3	YZR400L1-10	160	395	250	RF54-400L1-10J/20J	
RF54-400L2-10J/21c3	YZR400L2-10	200	460	258	RF54-400L2-10J/22J	
RF56-160M1-6/2c3	YZR160M1-6	5.0	138	22.9	RF56-160M1-6/2B	图2-9
RF56-160M2-6/2c3	YZR160M2-6	6.3	185	21.7	RF56-160M2-6/2B	
RF56-160L-6/2c3	YZR160L-6	9.0	250	22.3	RF56-160L-6/2B	
RF56-180L-6/4c3	YZR180L-6	13	218	37.3	RF56-180L-6/5J	
RF56-200L-6/4c3	YZR200L-6	19	200	60.5	RF56-200L-6/5J	
RF56-225M-6/5c3	YZR225M-6	26	250	64.5	RF56-225M-6/6J	
RF56-250M1-6/6c3	YZR250M1-6	32	250	79	RF56-250M1-6/7J	
RF56-250M2-6/6c3	YZR250M2-6	39	290	83	RF56-250M2-6/8J	
RF56-280S-6/8c3	YZR280S-6	48	280	107.1	RF56-280S-6/10J	
RF56-280M-6/9c3	YZR280M-6	63	370	104	RF56-280M-6/11J	
RF56-160L-8/2c3	YZR160L-8	6.0	205	18.2	RF56-160L-8/2B	
RF56-180L-8/3c3	YZR180L-8	9.0	172	32.1	RF56-180L-8/3J	
RF56-200L-8/3c3	YZR200L-8	13	178	46.1	RF56-200L-8/4J	
RF56-225M-8/4c3	YZR225M-8	18.5	232	49.5	RF56-225M-8/5J	
RF56-250M1-8/5c3	YZR250M1-8	26	272	59.1	RF56-250M1-8/6J	
RF56-250M2-8/5c3	YZR250M2-8	32	335	60	RF56-250M2-8/7J	
RF56-280S-8/6c3	YZR280S-8	38	305	80	RF56-280S-8/8J	
RF56-280M-8/7c3	YZR280M-8	48	360	82.8	RF56-280M-8/9J	
RF56-315S-8/9c3	YZR315S-8	63	302	132	RF56-315S-8/13J	
RF56-315M-8/12c3	YZR315M-8	75	372	136	RF56-315M-8/16J	

ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)		
RF56-315M-8J/13c3	YZR315M-8	75	372	136	RF56-315M-8J/17J	图2-10
RF56-280S-10/5c3	YZR280S-10	32	150	133.4	RF56-280S-10/7J	图2-9
RF56-280M-10/6c3	YZR280M-10	37	172	136	RF56-280M-10/9J	
RF56-315S-10/7c3	YZR315S-10	48	242	122	RF56-315S-10/9J	
RF56-315M-10/9c3	YZR315M-10	63	325	124.8	RF56-315M-10/12J	
RF56-355M-10/10c3	YZR355M-10	75	330	140	RF56-355M-10/13J	图2-10
RF56-355M-10J/10c3	YZR355M-10	75	330	140	RF56-355M-10J/13J	
RF56-355L1-10J/12c3	YZR355L1-10	90	388	143	RF56-355L1-10J/16J	
RF56-355L2-10J/16c3	YZR355L2-10	110	475	141.8	RF56-355L2-10J/19J	
RF56-400L1-10J/20c3	YZR400L1-10	135	395	210	RF56-400L1-10J/23J	
RF56-400L2-10J/24c3	YZR400L2-10	177	460	224	RF56-400L2-10J/30J	

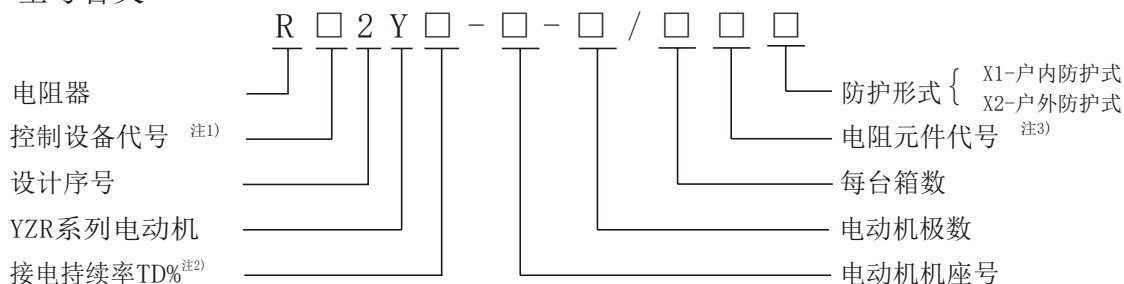
三、外表及安装尺寸



R□2Y□系列交流起重机成套电阻器（S4）

R□2Y□系列交流起重机成套电阻器主要用作交流起重机通用电控设备配套的YZR系列绕线式异步电动机（S4）的起动、制动与调速电阻。

一、型号含义



注：1) 控制设备代号：

“T” —KT□凸轮控制器控制；

“Y” 或 “P” —PQR1、PQR3、PQR5、PQY1~6、QR1~6Y、PQK6401等平移控制屏（柜）控制；

“S” —PQR2、PQR4、PQS1~3、QR1S等起升控制屏（柜）控制；

“Z” —PQR6、PQZ1、PQ1Z等抓斗控制屏（柜）控制；

“Q” —PQK（X、D、R）6402等起升控制屏（柜）控制；

“F” —QR2S两级反接制动起升控制屏（柜）控制；

2) 接电持续率：

“2” —25%

“4” —40%

“6” —60%

3) 电阻元件代号：

“B” —ZB1或ZB2型康铜丝（带）绕制的板形电阻元件；

“D” 或 “Y” —ZD2型铁铬铝带绕制的圆筒形电阻元件；

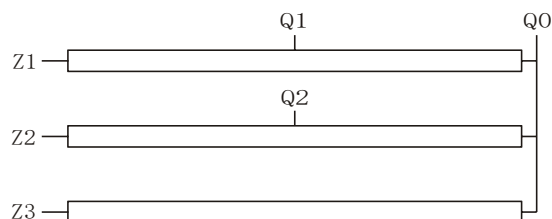
“T” —ZT1或ZT2型铸铁电阻元件；

“J” —ZJ1型铁铬铝带绕制的大波浪形电阻元件；

“c3” —Zc3型不锈钢板冲制而成的网板形电阻元件。

二、R□2Y□系列交流起重机成套电阻器新旧型号对照

1. 配KT□系列凸轮控制器用成套电阻器：



(图3-1)

ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)		
RT2Y2-112M-6/1c3	YZR112M-6	1.6	100	11.3	RT2Y2-112M-6/1B	图3-1
RT2Y2-132M1-6/1c3	YZR132M1-6	2.2	132	11.2	RT2Y2-132M1-6/1B	
RT2Y2-132M2-6/1c3	YZR132M2-6	3.7	185	13.1	RT2Y2-132M2-6/1B	
RT2Y2-160M1-6/1c3	YZR160M1-6	5.8	138	27.3	RT2Y2-160M1-6/1B	
RT2Y2-160M2-6/1c3	YZR160M2-6	7.5	185	27.6	RT2Y2-160M2-6/1B	
RT2Y2-160L-6/1c3	YZR160L-6	11	250	27.8	RT2Y2-160L-6/1B	
RT2Y2-180L-6/2c3	YZR180L-6	15	218	43.7	RT2Y2-180L-6/2D	
RT2Y2-160L-8/1c3	YZR160L-8	7.5	205	22.8	RT2Y2-160L-8/1B	
RT2Y2-180L-8/2c3	YZR180L-8	11	172	40.6	RT2Y2-180L-8/2D	
RT2Y2-200L-8/2c3	YZR200L-8	15	178	54.1	RT2Y2-200L-8/2D	
RT2Y2-225M-8/2c3	YZR225M-8	21	232	56.8	RT2Y2-225M-8/2D	
RT2Y2-250M1-8/2c3	YZR250M1-8	29	272	68.5	RT2Y2-250M1-8/2D	
RT2Y2-250M2-8/2c3	YZR250M2-8	33	335	62.5	RT2Y2-250M2-8/2D	
RT2Y4-112M-6/1c3	YZR112M-6	1.3	100	8.85	RT2Y4-112M-6/1B	
RT2Y4-132M1-6/1c3	YZR132M1-6	2.0	132	10	RT2Y4-132M1-6/1B	
RT2Y4-132M2-6/1c3	YZR132M2-6	3.5	185	11.2	RT2Y4-132M2-6/1B	
RT2Y4-160M1-6/1c3	YZR160M1-6	5.0	138	23.4	RT2Y4-160M1-6/1B	
RT2Y4-160M2-6/1c3	YZR160M2-6	7.0	185	25.6	RT2Y4-160M2-6/1B	
RT2Y4-160L-6/1c3	YZR160L-6	10	250	25	RT2Y4-160L-6/1B	
RT2Y4-180L-6/2c3	YZR180L-6	13	218	37.7	RT2Y4-180L-6/2B	
RT2Y4-200L-6/2c3	YZR200L-6	18.5	200	48.5	RT2Y4-200L-6/2B	
RT2Y4-225M-6/2c3	YZR225M-6	25	250	62.2	RT2Y4-225M-6/2D	
RT2Y4-160L-8/1c3	YZR160L-8	7.0	205	21.2	RT2Y4-160L-8/1B	
RT2Y4-180L-8/1c3	YZR180L-8	10	172	36.6	RT2Y4-180L-8/1D	
RT2Y4-200L-8/2c3	YZR200L-8	13	178	46.6	RT2Y4-200L-8/2D	
RT2Y4-225M-8/2c3	YZR225M-8	18.5	232	49.7	RT2Y4-225M-8/2D	
RT2Y4-250M1-8/2c3	YZR250M1-8	25	272	58.7	RT2Y4-250M1-8/2D	
RT2Y4-250M2-8/3c3	YZR250M2-8	30	335	56.6	RT2Y4-250M2-8/3D	
RS2Y2-160L-6/2c3	YZR160L-6	11	250	27.8	RS2Y2-160L-6/2B	图2-3
RS2Y2-180L-6/3c3	YZR180L-6	15	218	43.7	RS2Y2-180L-6/3D	
RS2Y2-200L-6/3c3	YZR200L-6	21	200	55.4	RS2Y2-200L-6/3D	
RS2Y2-225M-6/3c3	YZR225M-6	28	250	70	RS2Y2-225M-6/4D	
RS2Y2-250M1-6/3c3	YZR250M1-6	33	250	82.6	RS2Y2-250M1-6/4D	
RS2Y2-250M2-6/5c3	YZR250M2-6	42	290	90.5	RS2Y2-250M2-6/6D	
RS2Y2-180L-8/2c3	YZR180L-8	11	172	40.6	RS2Y2-180L-8/2B	

ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)		
RS2Y2-200L-8/3c3	YZR200L-8	15	178	54.1	RS2Y2-200L-8/3D	图2-3
RS2Y2-225M-8/3c3	YZR225M-8	21	232	56.8	RS2Y2-225M-8/3D	
RS2Y2-250M1-8/3c3	YZR250M1-8	29	272	68.5	RS2Y2-250M1-8/4D	
RS2Y2-250M2-8/3c3	YZR250M2-8	33	335	62.5	RS2Y2-250M2-8/4D	
RS2Y2-280M-8/5c3	YZR280M-8	52	360	90.2	RS2Y2-280M-8/6D	
RS2Y2-315S-8/5c3	YZR315S-8	64	302	132.7	RS2Y2-315S-8/6D	
RS2Y2-315M-8/7c3	YZR315M-8	75	372	136	RS2Y2-315M-8/9D	
RS2Y2-280S-10/3c3	YZR280S-10	33	150	141.8	RS2Y2-280S-10/4D	
RS2Y2-315S-10/5c3	YZR315S-10	50	242	128.4	RS2Y2-315S-10/6D	
RS2Y2-315M-10/7c3	YZR315M-10	65	325	129	RS2Y2-315M-10/9D	
RS2Y2-355M-10/7c3	YZR355M-10	80	330	149.7	RS2Y2-355M-10/9D	
RS2Y2-355L1-10/8c3	YZR355L1-10	100	388	159	RS2Y2-355L1-10/9D	
RS2Y2-355L2-10/10c3	YZR355L2-10	120	475	149.8	RS2Y2-355L2-10/12D	图2-4
RS2Y4-160L-6/2c3	YZR160L-6	10	250	25	RS2Y4-160L-6/2B	图2-3
RS2Y4-180L-6/2c3	YZR180L-6	13	218	37.7	RS2Y4-180L-6/2B	
RS2Y4-200L-6/2c3	YZR200L-6	18.5	200	48.5	RS2Y4-200L-6/2B	
RS2Y4-225M-6/3c3	YZR225M-6	25	250	62.2	RS2Y4-225M-6/4D	
RS2Y4-250M1-6/3c3	YZR250M1-6	30	250	74.9	RS2Y4-250M1-6/4D	
RS2Y4-250M2-6/3c3	YZR250M2-6	37	290	79.3	RS2Y4-250M2-6/4D	
RS2Y4-180L-8/2c3	YZR180L-8	10	172	36.6	RS2Y4-180L-8/2B	
RS2Y4-200L-8/3c3	YZR200L-8	13	178	46.6	RS2Y4-200L-8/3D	
RS2Y4-225M-8/3c3	YZR225M-8	18.5	232	49.7	RS2Y4-225M-8/3D	
RS2Y4-250M1-8/3c3	YZR250M1-8	25	272	58.7	RS2Y4-250M1-8/3D	
RS2Y4-250M2-8/3c3	YZR250M2-8	30	335	56.6	RS2Y4-250M2-8/4D	
RS2Y4-280M-8/5c3	YZR280M-8	45	360	77.7	RS2Y4-280M-8/6D	
RS2Y4-315S-8/5c3	YZR315S-8	60	302	124.2	RS2Y4-315S-8/6D	
RS2Y4-315M-8/7c3	YZR315M-8	72	372	130.7	RS2Y4-315M-8/9D	
RS2Y4-280S-10/3c3	YZR280S-10	30	150	125	RS2Y4-280S-10/4D	
RS2Y4-315S-10/5c3	YZR315S-10	45	242	115.3	RS2Y4-315S-10/6D	
RS2Y4-315M-10/5c3	YZR315M-10	60	325	119	RS2Y4-315M-10/6D	
RS2Y4-355M-10/7c3	YZR355M-10	72	330	134.5	RS2Y4-355M-10/9D	
RS2Y4-355L1-10/7c3	YZR355L1-10	90	388	142	RS2Y4-355L1-10/9D	
RS2Y4-355L2-10/10c3	YZR355L2-10	110	475	137.5	RS2Y4-355L2-10/12D	图2-4
RY2Y2-160L-6/2c3	YZR160L-6	11	250	27.8	RY2Y2-160L-6/2B	图2-3
RY2Y2-180L-6/3c3	YZR180L-6	15	218	43.7	RY2Y2-180L-6/3D	

ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)		
RY2Y2-200L-6/3c3	YZR200L-6	21	200	55.4	RY2Y2-200L-6/3D	图2-3
RY2Y2-225M-6/3c3	YZR225M-6	28	250	70	RY2Y2-225M-6/3D	
RY2Y2-250M1-6/3c3	YZR250M1-6	33	250	82.6	RY2Y2-250M1-6/4D	
RY2Y2-250M2-6/3c3	YZR250M2-6	42	290	90.5	RY2Y2-250M2-6/4D	
RY2Y2-280S-6/5c3	YZR280S-6	52	280	116	RY2Y2-280S-6/6D	
RY2Y2-180L-8/2c3	YZR180L-8	11	172	40.6	RY2Y2-180L-8/2B	
RY2Y2-200L-8/3c3	YZR200L-8	15	178	54.1	RY2Y2-200L-8/3D	
RY2Y2-225M-8/3c3	YZR225M-8	21	232	56.8	RY2Y2-225M-8/3D	
RY2Y2-250M1-8/3c3	YZR250M1-8	29	272	68.5	RY2Y2-250M1-8/4D	
RY2Y2-250M2-8/3c3	YZR250M2-8	33	335	62.5	RY2Y2-250M2-8/4D	
RY2Y2-280M-8/5c3	YZR280M-8	52	360	90.2	RY2Y2-280M-8/6D	
RY2Y2-315S-8/5c3	YZR315S-8	64	302	132.7	RY2Y2-315S-8/6D	
RY2Y2-315M-8/6c3	YZR315M-8	75	372	136	RY2Y2-315M-8/7D	
RY2Y2-280S-10/3c3	YZR280S-10	33	150	141.8	RY2Y2-280S-10/4D	
RY2Y2-315S-10/5c3	YZR315S-10	50	242	128.4	RY2Y2-315S-10/6D	
RY2Y2-315M-10/5c3	YZR315M-10	65	325	129	RY2Y2-315M-10/6D	
RY2Y2-355M-10/7c3	YZR355M-10	80	330	149.7	RY2Y2-355M-10/9D	
RY2Y2-355L1-10/10c3	YZR355L1-10	100	388	159	RY2Y2-355L1-10/12D	
RY2Y2-355L2-10/10c3	YZR355L2-10	120	475	149.8	RY2Y2-355L2-10/12D	图2-4
RY2Y4-160L-6/2c3	YZR160L-6	10	250	25	RY2Y4-160L-6/2B	图2-3
RY2Y4-180L-6/2c3	YZR180L-6	13	218	37.7	RY2Y4-180L-6/2B	
RY2Y4-200L-6/3c3	YZR200L-6	18.5	200	48.5	RY2Y4-200L-6/3D	
RY2Y4-225M-6/3c3	YZR225M-6	25	250	62.2	RY2Y4-225M-6/3D	
RY2Y4-250M1-6/3c3	YZR250M1-6	30	250	74.9	RY2Y4-250M1-6/4D	
RY2Y4-250M2-6/3c3	YZR250M2-6	37	290	79.3	RY2Y4-250M2-6/4D	
RY2Y4-280S-6/5c3	YZR280S-6	45	280	100	RY2Y4-280S-6/6D	
RY2Y4-180L-8/2c3	YZR180L-8	10	172	36.6	RY2Y4-180L-8/2B	
RY2Y4-200L-8/3c3	YZR200L-8	13	178	46.6	RY2Y4-200L-8/3D	
RY2Y4-225M-8/3c3	YZR225M-8	18.5	232	49.7	RY2Y4-225M-8/3D	
RY2Y4-250M1-8/3c3	YZR250M1-8	25	272	58.7	RY2Y4-250M1-8/3D	
RY2Y4-250M2-8/3c3	YZR250M2-8	30	335	56.6	RY2Y4-250M2-8/4D	
RY2Y4-280M-8/5c3	YZR280-8	45	360	77.7	RY2Y4-280M-8/6D	
RY2Y4-315S-8/5c3	YZR315S-8	60	302	124.2	RY2Y4-315S-8/6D	
RY2Y4-315M-8/6c3	YZR315M-8	72	372	130.7	RY2Y4-315M-8/7D	
RY2Y4-280S-10/3c3	YZR280S-10	30	150	125	RY2Y4-280S-10/4D	

ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)		
RY2Y4-315S-10/5c3	YZR315S-1 0	45	242	115.3	RY2Y4-315S-10/6D	图2-3
RY2Y4-315M-10/5c3	YZR315M-10	60	325	119	RY2Y4-315M-10/6D	
RY2Y4-355M-10/7c3	YZR355M-10	72	330	134.5	RY2Y4-355M-10/9D	
RY2Y4-355L1-10/7c3	YZR355L1-1 0	90	388	142	RY2Y4-355L1-10/9D	
RY2Y4-355L2-10/10c3	YZR355L2-1 0	110	475	137.5	RY2Y4-355L2-10/12D	图2-4
RP2Y2-160L-6/2c3	YZR160L-6	11	250	27.8	RP2Y2-160L-6/2B	图2-3
RP2Y2-180L-6/3c3	YZR180L-6	15	218	43.7	RP2Y2-180L-6/3B	
RP2Y2-200L-6/3c3	YZR200L-6	21	200	55.4	RP2Y2-200L-6/3D	
RP2Y2-225M-6/3c3	YZR225M-6	28	250	70	RP2Y2-225M-6/4D	图2-4
RP2Y2-250M1-6/3c3	YZR250M 1-6	33	250	82.6	RP2Y2-250M1-6/4D	
RP2Y2-250M2-6/5c3	YZR250M 2-6	42	290	90.5	RP2Y2-250M2-6/6D	
RP2Y2-280S-6/5c3	YZR280S-6	52	280	116	RP2Y2-280S-6/6D	
RP2Y2-180L-8/2c3	YZR180L-8	11	172	40.6	RP2Y2-180L-8/2B	图2-3
RP2Y2-200L-8/3c3	YZR200L-8	15	178	54.1	RP2Y2-200L-8/3D	
RP2Y2-225M-8/3c3	YZR225M-8	21	232	56.8	RP2Y2-225M-8/3D	
RP2Y2-250M1-8/3c3	YZR250M 1-8	29	272	68.5	RP2Y2-250M1-8/4D	
RP2Y2-250M2-8/3c3	YZR250M 2-8	33	335	62.5	RP2Y2-250M2-8/4D	
RP2Y2-280M-8/5c3	YZR280M-8	52	360	90.2	RP2Y2-280M-8/6D	图2-4
RP2Y2-315S-8/5c3	YZR315S-8	64	302	132.7	RP2Y2-315S-8/6D	
RP2Y2-315M-8/7c3	YZR315M-8	75	372	136	RP2Y2-315M-8/9D	
RP2Y2-280S-10/3c3	YZR280S-1 0	33	150	141.8	RP2Y2-280S-10/4D	
RP2Y2-315S-10/5c3	YZR315S-1 0	50	242	128.4	RP2Y2-315S-10/6D	
RP2Y2-315M-10/7c3	YZR315M-10	65	325	129	RP2Y2-315M-10/9D	
RP2Y2-355M-10/7c3	YZR355M-10	80	330	149.7	RP2Y2-355M-10/9D	
RP2Y2-355L1-10/10c3	YZR355L1-1 0	100	388	159	RP2Y2-355L1-10/12D	
RP2Y2-355L2-10/10c3	YZR355L2-1 0	120	475	149.8	RP2Y2-355L2-10/12D	
RP2Y4-160L-6/2c3	YZR160L-6	10	250	25	RP2Y4-160L-6/2B	图2-3
RP2Y4-180L-6/2c3	YZR180L-6	13	218	37.7	RP2Y4-180L-6/2B	
RP2Y4-200L-6/3c3	YZR200L-6	18.5	200	48.5	RP2Y4-200L-6/3D	
RP2Y4-225M-6/3c3	YZR225M-6	25	250	62.2	RP2Y4-225M-6/3D	
RP2Y4-250M1-6/3c3	YZR250M 1-6	30	250	74.9	RP2Y4-250M1-6/4D	图2-4
RP2Y4-250M2-6/3c3	YZR250M 2-6	37	290	79.3	RP2Y4-250M2-6/4D	
RP2Y4-280S-6/5c3	YZR280S-6	45	280	100	RP2Y4-280S-6/6D	
RP2Y4-180L-8/2c3	YZR180L-8	10	172	36.6	RP2Y4-180L-8/2B	图2-3
RP2Y4-200L-8/3c3	YZR200L-8	13	178	46.6	RP2Y4-200L-8/3D	

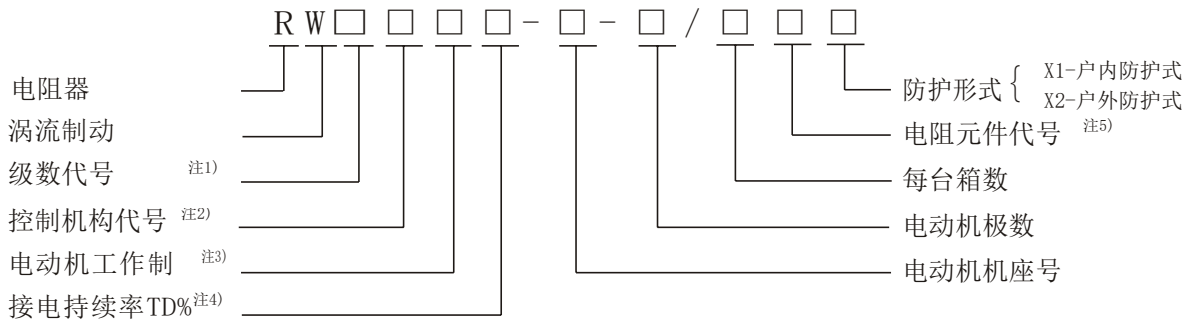
ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图	
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)			
RP2Y4-225M-8/3c3	YZR225M-8	18.5	232	49.7	RP2Y4-225M-8/3D	图2-3	
RP2Y4-250M1-8/3c3	YZR250M1-8	25	272	58.7	RP2Y4-250M1-8/3D		
RP2Y4-250M2-8/3c3	YZR250M2-8	30	335	56.6	RP2Y4-250M2-8/4D		
RP2Y4-280M-8/5c3	YZR280M-8	45	360	77.7	RP2Y4-280M-8/6D	图2-4	
RP2Y4-315S-8/5c3	YZR280S-8	60	302	124.2	RP2Y4-315S-8/6D		
RP2Y4-315M-8/7c3	YZR315M-8	72	372	130.7	RP2Y4-315M-8/9D		
RP2Y4-280S-10/3c3	YZR280S-10	30	150	125	RP2Y4-280S-10/4D		
RP2Y4-315S-10/5c3	YZR315S-10	45	242	115.3	RP2Y4-315S-10/6D		
RP2Y4-315M-10/5c3	YZR315M-10	60	325	119	RP2Y4-315M-10/6D		
RP2Y4-355M-10/7c3	YZR355M-10	72	330	134.5	RP2Y4-355M-10/9D		
RP2Y4-355L1-10/7c3	YZR355L1-10	90	388	142	RP2Y4-355L1-10/9D		
RP2Y4-355L2-10/10c3	YZR355L2-10	110	475	137.5	RP2Y4-355L2-10/12D		
RZ2Y4-180L-6/2c3	YZR180L-6	13	218	37.7	RZ2Y4-180L-6/2B		图2-6
RZ2Y4-200L-6/2c3	YZR200L-6	18.5	200	48.5	RZ2Y4-200L-6/2B		
RZ2Y4-225M-6/3c3	YZR225M-8	25	250	62.2	RZ2Y4-225M-6/3D		
RZ2Y4-250M1-6/3c3	YZR250M1-8	30	250	74.9	RZ2Y4-250M1-6/3D		
RZ2Y4-250M2-6/3c3	YZR250M2-6	37	290	79.3	RZ2Y4-250M2-6/3D		
RZ2Y4-280S-6/3c3	YZR280S-6	45	280	100	RZ2Y4-280S-6/4D		
RZ2Y4-200L-8/2c3	YZR200L-8	13	178	46.6	RZ2Y4-200L-8/2D		
RZ2Y4-225M-8/2c3	YZR225M-8	18.5	232	49.7	RZ2Y4-225M-8/2D		
RZ2Y4-250M1-8/3c3	YZR250M1-8	25	272	58.7	RZ2Y4-250M1-8/3D		
RZ2Y4-250M2-8/3c3	YZR250M2-8	30	335	56.6	RZ2Y4-250M2-8/3D		
RZ2Y4-280M-8/3c3	YZR280M-8	45	360	77.7	RZ2Y4-280M-8/3D		
RZ2Y4-315S-8/3c3	YZR315S-8	60	302	124.2	RZ2Y4-315S-8/4D		
RZ2Y4-315M-8/5c3	YZR315M-8	72	372	130.7	RZ2Y4-315M-8/6D		
RZ2Y4-280S-10/3c3	YZR280S-10	30	150	125	RZ2Y4-280S-10/3D		
RZ2Y4-315S-10/3c3	YZR315S-10	45	242	115.3	RZ2Y4-315S-10/4D		
RZ2Y4-315M-10/5c3	YZR315M-10	60	325	119	RZ2Y4-315M-10/4D		
RZ2Y4-355M-10/5c3	YZR355M-10	72	330	134.5	RZ2Y4-355M-10/6D		
RZ2Y4-355L1-10/5c3	YZR355L1-10	90	388	142	RZ2Y4-355L1-10/6D	图2-7	
RZ2Y4-355L2-10/7c3	YZR355L2-10	110	475	137.5	RZ2Y4-355L2-10/9D		
RQ2Y2-160L-6/3c3	YZR160L-6	11	250	27.8	RQ2Y2-160L-6/3B	图2-8	
RQ2Y2-180L-6/3c3	YZR180L-6	15	218	43.7	RQ2Y2-180L-6/4D		
RQ2Y2-200L-6/3c3	YZR200L-6	21	200	55.4	RQ2Y2-200L-6/4D		
RQ2Y2-225M-6/5c3	YZR225M-6	28	250	70	RQ2Y2-225M-6/6D		

ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)		
RQ2Y2-250M1-6/5c3	YZR250M1-6	250	250	82.6	RQ2Y2-250M1-6/6D	图2-8
RQ2Y2-250M2-6/5c3	YZR250M2-6	290	290	90.5	RQ2Y2-250M2-6/6D	
RY2Y2-180L-8/3c3	YZR180L-8	172	172	40.6	RY2Y2-180L-8/3D	
RQ2Y2-200L-8/3c3	YZR220L-8	178	178	54.1	RQ2Y2-200L-8/3D	
RQ2Y2-225M-8/3c3	YZR225M-8	232	232	56.8	RQ2Y2-225M-8/4D	
RQ2Y2-250M1-8/5c3	YZR250M1-8	272	272	68.5	RQ2Y2-250M1-8/6D	
RQ2Y2-250M2-8/5c3	YZR250M2-8	33	335	62.5	RQ2Y2-250M2-8/6D	
RQ2Y2-280M-8/7c3	YZR280M-8	52	360	90.2	RQ2Y2-280M-8/9D	
RQ2Y2-315S-8/10c3	YZR315S-8	64	302	132.7	RQ2Y2-315S-8/12D	
RQ2Y2-315M-8/10c3	YZR315M-8	75	372	136	RQ2Y2-315M-8/12D	
RQ2Y2-315S-10/7c3	YZR315S-10	50	242	128.4	RQ2Y2-315S-10/9D	
RQ2Y2-315M-10/7c3	YZR315M-10	65	325	129	RQ2Y2-315M-10/9D	
RQ2Y2-355M-10/10c3	YZR355M-10	80	330	149.7	RQ2Y2-355M-10/12D	
RQ2Y2-355L1-10/12c3	YZR355L1-10	100	388	159	RQ2Y2-355L1-10/15D	
RQ2Y2-355L2-10/12c3	YZR355L2-10	120	475	149.8	RQ2Y2-355L2-10/15D	
RQ2Y4-160L-6/3c3	YZR160L-6	10	250	25	RQ2Y4-160L-6/3B	
RQ2Y4-180L-6/3c3	YZR180L-6	13	218	37.7	RQ2Y4-180L-6/3B	
RQ2Y4-200L-6/3c3	YZR200L-6	18.5	200	48.5	RQ2Y4-200L-6/4D	
RQ2Y4-225M-6/5c3	YZR225M-6	25	250	62.2	RQ2Y4-225M-6/6D	
RQ2Y4-250M1-6/5c3	YZR250M1-6	30	250	74.9	RQ2Y4-250M1-6/6D	
RQ2Y4-250M2-6/5c3	YZR250M2-6	37	290	79.3	RQ2Y4-250M2-6/6D	
RY2Y4-180L-8/3c3	YZR180L-8	10	172	36.6	RY2Y2-180L-8/3B	
RQ2Y4-200L-8/3c3	YZR200L-8	13	178	46.6	RQ2Y4-200L-8/3D	
RQ2Y4-225M-8/3c3	YZR225M-8	18.5	232	49.7	RQ2Y4-225M-8/4D	
RQ2Y4-250M1-8/5c3	YZR250M1-8	25	272	58.7	RQ2Y4-250M1-8/6D	
RQ2Y4-250M2-8/5c3	YZR250M2-8	30	335	56.6	RQ2Y4-250M2-8/6D	
RQ2Y4-280M-8/5c3	YZR280M-8	45	360	77.7	RQ2Y4-280M-8/6D	
RQ2Y4-315S-8/7c3	YZR315S-8	60	302	124.2	RQ2Y4-315S-8/9D	
RQ2Y4-315M-8/10c3	YZR315M-8	72	372	130.7	RQ2Y4-315M-8/12D	
RQ2Y4-280S-10/5c3	YZR280S-10	30	150	125	RQ2Y4-280S-10/6D	
RQ2Y4-315S-10/7c3	YZR315S-10	45	242	115.3	RQ2Y4-315S-10/9D	
RQ2Y4-315M-10/7c3	YZR315M-10	60	325	119	RQ2Y4-315M-10/9D	
RQ2Y4-355M-10/10c3	YZR355M-10	72	330	134.7	RQ2Y4-355M-10/12D	
RQ2Y4-355L1-10/10c3	YZR355L1-10	90	388	142	RQ2Y4-355L1-10/12D	
RQ2Y4-355L2-10/12c3	YZR355L2-10	110	475	137.5	RQ2Y4-355L2-10/15D	

交流起重机 · QW7^S系列涡流调速系统成套电阻器

本系列成套电阻器主要用作交流起重机QW7S（Y）系列涡流调速系统配套的YZR（或YZRW）系列绕线式异步电动机（S3或S4）的起动与涡流制动调速电阻。用于起升机构的QW7S为闭环涡流调速系统，调速范围： $D \geq 10$ 。用于平移机构的QW7Y为开环涡流调速系统，调速范围为： $D \geq 5$ 。

一、型号含义



注：1) 级数代号

“1”一起升机构为四级五段（TD40%时功率 $\leq 90\text{kW}$ ）或五级六段（TD40%时功率 $\geq 110\text{kW}$ ），平移机构为四级五段；

“2”—平移机构为三级四段

2) 控制机构代号：

“S”—QW7S系列涡流调速起升控制屏（柜）控制；

“Y”—QW7Y系列涡流调速平移控制屏（柜）控制；

3) 电动机工作制：“3”—S3；“4”—S4；

4) 接电持续率：“2”—25%；“4”—40%；“6”—60%；

3) 电阻元件代号：

“B”—ZB1或ZB2型康铜丝（带）绕制的板形电阻元件；

“D”或“Y”—ZD2型铁铬铝带绕制的圆筒形电阻元件；

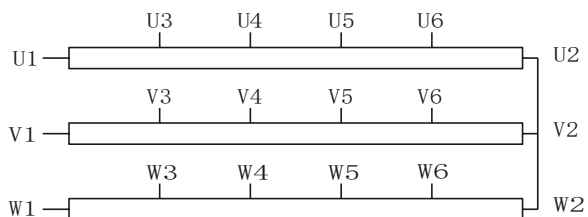
“T”—ZT1或ZT2型铸铁电阻元件；

“J”—ZJ1型铁铬铝带绕制的大波浪形电阻元件；

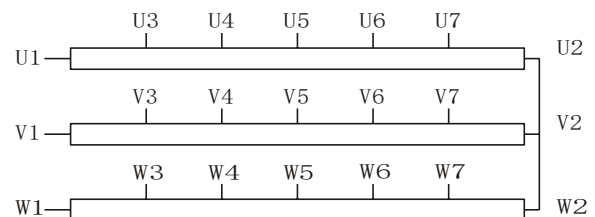
“c3”—Zc3型不锈钢板冲制而成的网板形电阻元件。

二、QW7S（Y）系列涡流调速系统成套电阻器新旧型号对照

1. 配QW7S系列起升机构用涡流调速系统成套电阻器接线原理图：



（图4-1）



（图4-2）

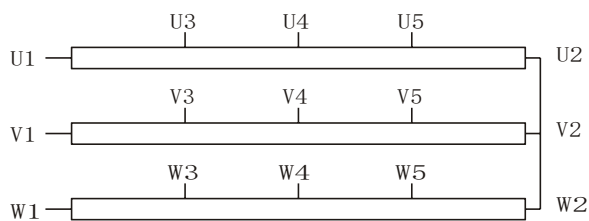
ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)		
RW1S32-160M2-6/2c3	YZRW160M2-6 YZR160M2-6	8.5	185	29.8	RW1S32-160M2-6/2B	图4-1
RW1S32-160L-6/3c3	YZRW160L-6 YZR160L-6	13	250	31.6	RW1S32-160L-6/3B	
RW1S32-180L-6/4c3	YZRW180L-6 YZR180L-6	17	218	49.8	RW1S32-180L-6/5J	
RW1S32-200L-6/3c3	YZRW200L-6 YZR200L-6	26	200	82.4	RW1S32-200L-6/4J	
RW1S32-225M-6/7c3	YZRW225M-6 YZR225M-6	34	250	85	RW1S32-225M-6/8J	
RW1S32-250M1-6/6c3	YZRW250M1-6 YZR250M1-6	42	250	103	RW1S32-250M1-6/7J	
RW1S32-250M2-6/8c3	YZRW250M2-6 YZR250M2-6	52	290	110	RW1S32-250M2-6/10J	
RW1S32-280S-6/9c3	YZRW280S-6 YZR280S-6	63	280	142	RW1S32-280S-6/11J	
RW1S32-280M-6/11c3	YZRW280M-6 YZR280M-6	85	370	140	RW1S32-280M-6/13J	
RW1S32-160L-8/2c3	YZRW160L-8 YZR160L-8	9.0	205	28.1	RW1S32-160L-8/2B	
RW1S32-180L-8/3c3	YZRW180L-8 YZR180L-8	13	172	47.8	RW1S32-180L-8/4J	
RW1S32-200L-8/3c3	YZRW200L-8 YZR200L-8	18.5	178	67.2	RW1S32-200L-8/4J	
RW1S32-225M-8/4c3	YZRW225M-8 YZR225M-8	26	232	71.2	RW1S32-225M-8/5J	
RW1S32-250M1-8/6c3	YZRW250M1-8 YZR250M1-8	35	272	80	RW1S32-140M1-8/7J	
RW1S32-250M2-8/8c3	YZRW250M2-8 YZR250M2-8	42	335	79	RW1S32-250M2-8/9J	
RW1S32-280S-8/8c3	YZRW280S-8 YZR280S-8	51	305	108	RW1S32-280S-8/9J	
RW1S32-280M-8/9c3	YZRW280M-8 YZR280M-8	63	360	110	RW1S32-280M-8/9J	
RW1S32-315S-8/14c3	YZRW315S-8 YZR315S-8	85	302	180	RW1S32-315S-8/16J	
RW1S32-315M-8/18c3	YZRW315M-8 YZR315M-8	100	372	183.5	RW1S32-315M-8/21J	
RW1S32-280S-10/7c3	YZRW280S-10 YZR280S-10	42	150	177.1	RW1S32-280S-10/8J	
RW1S32-280M-10/8c3	YZRW280M-10 YZR280M-10	55	172	207	RW1S32-280M-10/9J	
RW1S32-315S-10/10c3	YZRW315S-10 YZR315S-10	63	242	161.9	RW1S32-315S-10/12J	
RW1S32-315M-10/13c3	YZRW315M-10 YZR315M-10	85	325	171	RW1S32-315M-10/15J	
RW1S32-355M-10/17c3	YZRW355M-10 YZR355M-10	110	330	207	RW1S32-355M-10/20J	
RW1S32-355L1-10/16c3	YZRW355L1-10 YZR355L1-10	132	388	213	RW1S32-355L1-10/18J	图4-2
RW1S32-355L2-10/23c3	YZRW355L2-10 YZR355L2-10	150	475	194	RW1S32-355L2-10/27J	
RW1S32-400L1-10/24c3	YZRW400L1-10 YZR400L1-10	190	395	300	RW1S32-400L1-10/27J	
RW1S32-400L2-10/30c3	YZRW400L2-6 YZR400L2-6	240	460	308	RW1S32-400L2-10/35J	
RW1S34-160M2-6/2c3	YZRW160M2-6 YZR160M2-6	7.5	185	26.5	RW1S34-160M2-6/2B	图4-1
RW1S34-160L-6/2c3	YZRW160L-6 YZR160L-6	11	250	27.6	RW1S34-160L-6/2B	
RW1S34-180L-6/4c3	YZRW180L-6 YZR180L-6	15	218	46.5	RW1S34-180L-6/5J	
RW1S34-200L-6/4c3	YZRW200L-6 YZR200L-6	22	200	69.9	RW1S34-200L-6/5J	
RW1S34-225M-6/7c3	YZRW225M-6 YZR225M-6	30	250	74.4	RW1S34-225M-6/8J	
RW1S34-250M1-6/8c3	YZRW250M1-6 YZR250M1-6	37	250	91.5	RW1S34-250M1-6/9J	
RW1S34-250M2-6/8c3	YZRW250M2-6 YZR250M2-6	45	290	95	RW1S34-250M2-6/9J	

ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)		
RW1S34-280S-6/8c3	YZRW280S-6 YZR280S-6	55	280	119.8	RW1S34-280S-8/9J	图4-1
RW1S34-280M-6/10c3	YZRW280M-6 YZR280M-6	75	370	122.6	RW1S34-280M-6/12J	
RW1S34-160L-8/2c3	YZRW160L-8 YZR160L-8	7.5	205	23	RW1S34-160L-8/2B	
RW1S34-180L-8/3c3	YZRW180L-8 YZR180L-8	11	172	44	RW1S34-180L-8/4J	
RW1S34-200L-8/3c3	YZRW200L-8 YZR200L-8	15	178	53.5	RW1S34-200L-8/4J	
RW1S34-225M-8/4c3	YZRW225M-8 YZR225M-8	22	232	59.1	RW1S34-225M-8/5J	
RW1S34-250M1-8/6c3	YZRW250M1-8 YZR250M1-8	30	272	68.8	RW1S34-250M1-8/7J	
RW1S34-250M2-8/6c3	YZRW250M2-8 YZR250M2-8	37	335	70	RW1S34-250M2-8/7J	
RW1S34-280S-8/8c3	YZRW280S-8 YZR280S-8	45	305	94	RW1S34-280S-8/9J	
RW1S34-280M-8/10c3	YZRW280M-8 YZR280M-8	55	360	92.5	RW1S34-280M-8/12J	
RW1S34-315S-8/14c3	YZRW315S-8 YZR315S-8	75	302	159	RW1S34-315S-8/16J	
RW1S34-315M-8/16c3	YZRW315M-8 YZR315M-8	90	372	160.9	RW1S34-315M-8/18J	
RW1S34-280S-10/7c3	YZRW280S-10 YZR280S-10	37	150	153.2	RW1S34-280S-10/8J	
RW1S34-280M-10/8c3	YZRW280M-10 YZR280M-10	45	172	165	RW1S34-280M-10/9J	
RW1S34-315S-10/8c3	YZRW315S-10 YZR315S-10	55	242	138.7	RW1S34-315S-10/9J	
RW1S34-315M-10/11c3	YZRW315M-10 YZR315M-10	75	325	149.3	RW1S34-315M-10/13J	
RW1S34-355M-10/14c3	YZRW355M-10 YZR355M-10	90	330	166.6	RW1S34-355M-10/16J	
RW1S34-355L1-10/16c3	YZRW355L1-10 YZR355L1-10	110	388	172	RW1S34-355L1-10/8J	图4-2
RW1S34-355L2-10/20c3	YZRW355L2-10 YZR355L2-10	132	475	167.5	RW1S34-355L2-10/23J	
RW1S34-400L1-10/23c3	YZRW400L1-10 YZR400L1-10	160	395	250	RW1S34-400L1-10/26J	
RW1S34-400L2-10/30c3	YZRW400L2-10 YZR400L2-10	200	460	258	RW1S34-400L2-10/34J	
RW1S42-160M2-6/2c3	YZRW160M2-6 YZR160M2-6	7.5	185	27.6	RW1S42-160M2-6/2B	图4-1
RW1S42-160L-6/2c3	YZRW160L-6 YZR160L-6	11	250	27.8	RW1S42-160L-6/2B	
RW1S42-180L-6/4c3	YZRW180L-6 YZR180L-6	15	218	43.7	RW1S42-180L-6/5J	
RW1S42-200L-6/4c3	YZRW200L-6 YZR200L-6	21	200	55.4	RW1S42-200L-6/5J	
RW1S42-225M-6/5c3	YZRW225M-6 YZR225M-6	28	250	70	RW1S42-225M-6/6J	
RW1S42-250M1-6/5c3	YZRW250M1-6 YZR250M1-6	33	250	82.6	RW1S42-250M1-6/6J	
RW1S42-250M2-6/7c3	YZRW250M2-6 YZR250M2-6	42	290	90.5	RW1S42-250M2-6/8J	
RW1S42-280S-6/8c3	YZRW280S-6 YZR280S-6	52	280	116	RW1S42-280S-6/9J	
RW1S42-280M-6/10c3	YZRW280M-6 YZR280M-6	70	370	115	RW1S42-280M-6/12J	
RW1S42-160L-8/2c3	YZRW160L-8 YZR160L-8	7.5	205	22.8	RW1S42-160L-8/2B	
RW1S42-180L-8/3c3	YZRW180L-8 YZR180L-8	11	172	40.6	RW1S42-180L-8/4J	
RW1S42-200L-8/3c3	YZRW200L-8 YZR200L-8	15	178	54.1	RW1S42-200L-8/4J	
RW1S42-225M-8/4c3	YZRW225M-8 YZR225M-8	21	232	56.8	RW1S42-225M-8/5J	
RW1S42-250M1-8/5c3	YZRW250M1-8 YZR250M1-8	29	272	68.5	RW1S42-250M1-8/6J	

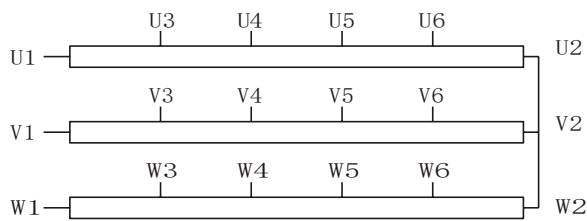
ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)		
RW1S42-250M2-8/7c3	YZRW250M2-8 YZR250M2-8	33	335	62.5	RW1S42-250M2-8/8J	图4-1
RW1S42-280S-8/7c3	YZRW280S-8 YZR280S-8	42	305	85.5	RW1S42-280S-8/8J	
RW1S42-280M-8/8c3	YZRW280M-8 YZR280M-8	52	360	90.2	RW1S42-280M-8/10J	
RW1S42-315S-8/10c3	YZRW315S-8 YZR315S-8	64	302	132.7	RW1S42-315S-8/12J	
RW1S42-315M-8/12c3	YZRW315M-8 YZR315M-8	75	372	136	RW1S42-315M-8/14J	
RW1S42-280S-10/8c3	YZRW280S-10 YZR280S-10	33	150	141.8	RW1S42-280S-10/9J	
RW1S42-280M-10/7c3	YZRW280M-10 YZR280M-10	42	172	154	RW1S42-280M-10/8J	
RW1S42-315S-10/8c3	YZRW315S-10 YZR315S-10	50	242	128.4	RW1S42-315S-10/9J	
RW1S42-315M-10/10c3	YZRW315M-10 YZR315M-10	65	325	129	RW1S42-315M-10/12J	
RW1S42-355M-10/11c3	YZRW355M-10 YZR355M-10	80	330	149.7	RW1S42-355M-10/13J	
RW1S42-355L1-10/18c3	YZRW355L1-10 YZR355L1-10	100	388	159	RW1S42-355L1-10/20J	图4-2
RW1S42-355L2-10/16c3	YZRW355L2-10 YZR355L2-10	120	475	149.8	RW1S42-355L2-10/18J	
RW1S42-400L1-10/24c3	YZRW400L1-10 YZR400L1-10	145	395	223	RW1S42-400L1-10/27J	
RW1S42-400L2-10/27c3	YZRW400L2-10 YZR400L2-10	185	460	238	RW1S42-400L2-10/30J	
RW1S44-160M2-6/2c3	YZRW160M2-6 YZR160M2-6	7.0	185	25.6	RW1S44-160M2-6/2B	图4-1
RW1S44-160L-6/2c3	YZRW160L-6 YZR160L-6	10	250	25	RW1S44-160L-6/2B	
RW1S44-180L-6/4c3	YZRW180L-6 YZR180L-6	13	218	37.7	RW1S44-180L-6/5J	
RW1S44-200L-6/4c3	YZRW200L-6 YZR200L-6	18.5	200	48.5	RW1S44-200L-6/5J	
RW1S44-225M-6/6c3	YZRW225M-6 YZR225M-6	25	250	62.2	RW1S44-225M-6/7J	
RW1S44-250M1-6/6c3	YZRW250M1-6 YZR250M1-6	30	250	74.9	RW1S44-250M1-6/7J	
RW1S44-250M2-6/7c3	YZRW250M2-6 YZR250M2-6	37	290	79.3	RW1S44-250M2-6/8J	
RW1S44-280S-6/7c3	YZRW280S-6 YZR280S-6	45	280	100	RW1S44-280S-6/8J	
RW1S44-280M-6/9c3	YZRW280M-6 YZR280M-6	62	370	102	RW1S44-280M-6/10J	
RW1S44-160L-8/2c3	YZRW160L-8 YZR160L-8	7.0	205	21.2	RW1S44-160L-8/2B	
RW1S44-180L-8/3c3	YZRW180L-8 YZR180L-8	10	172	36.6	RW1S44-180L-8/4J	
RW1S44-200L-8/3c3	YZRW200L-8 YZR200L-8	13	178	46.6	RW1S44-200L-8/4J	
RW1S44-225M-8/4c3	YZRW225M-8 YZR225M-8	18.5	232	49.7	RW1S44-225M-8/5J	
RW1S44-250M1-8/6c3	YZRW250M1-8 YZR250M1-8	25	272	58.7	RW1S44-250M1-8/6J	
RW1S44-250M2-8/6c3	YZRW250M2-8 YZR250M2-8	30	335	56.6	RW1S44-250M2-8/7J	
RW1S44-280S-8/7c3	YZRW280S-8 YZR280S-8	37	305	75.6	RW1S44-280S-8/8J	
RW1S44-280M-8/8c3	YZRW280M-8 YZR280M-8	45	360	77.7	RW1S44-280M-8/9J	
RW1S44-315S-8/11c3	YZRW315S-8 YZR315S-8	40	302	124.2	RW1S44-315S-8/13J	
RW1S44-315M-8/13c3	YZRW315M-8 YZR315M-8	72	372	130.7	RW1S44-315M-8/14J	
RW1S44-280S-10/6c3	YZRW280S-10 YZR280S-10	30	150	125	RW1S44-280S-10/7J	
RW1S44-280M-10/6c3	YZRW280M-10 YZR280M-10	37	172	136	RW1S44-280M-10/7J	

ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)		
RW1S44-315S-10/7c3	YZRW315S-10 YZR315S-10	45	242	115.3	RW1S44-315S-10/7J	图4-1
RW1S44-315M-10/10c3	YZRW315M-10 YZR315M-10	60	325	119	RW1S44-315M-10/10J	
RW1S44-355M-10/12c3	YZRW355M-10 YZR355M-10	72	330	134.5	RW1S44-355M-10/12J	
RW1S44-355L1-10/14c3	YZRW355L1-10 YZR355L1-10	90	388	142	RW1S44-355L1-10/17J	图4-2
RW1S44-355L2-10/16c3	YZRW355L2-10 YZR355L2-10	110	475	137.5	RW1S44-355L2-10/18J	
RW1S44-400L1-10/19c3	YZRW400L1-10 YZR400L1-10	132	395	199	RW1S44-400L1-10/22J	
RW1S44-400L2-10/30c3	YZRW400L2-10 YZR400L2-10	165	460	262	RW1S44-400L2-10/34J	

2. 配QW7Y系列平移机构用涡流调速系统成套电阻器接线原理图:



(图4-3)



(图4-4)

ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)		
RW1Y32-112M-6/1c3	YZRW112M-6 YZR112M-6	1.8	100	13.4	RW1Y32-112M-6/1B	图4-4
RW1Y32-132M1-6/1c3	YZRW132M1-6 YZR132M1-6	2.5	132	12.9	RW1Y32-132M1-6/1B	
RW1Y32-132M2-6/1c3	YZRW132M2-6 YZR132M2-6	4.0	185	14.2	RW1Y32-132M2-6/1B	
RW1Y32-160M1-6/2c3	YZRW160M1-6 YZR160M1-6	6.3	138	29.4	RW1Y32-160M1-6/2B	
RW1Y32-160M2-6/2c3	YZRW160M2-6 YZR160M2-6	8.5	185	29.8	RW1Y32-160M2-6/2B	
RW1Y32-160L-6/3c3	YZRW160L-6 YZR160L-6	13	250	31.6	RW1Y32-160L-6/3B	
RW1Y32-180L-6/3c3	YZRW180L-6 YZR180L-6	17	218	49.8	RW1Y32-180L-6/4J	
RW1Y32-200L-6/4c3	YZRW200L-6 YZR200L-6	26	200	82.4	RW1Y32-200L-6/5J	
RW1Y32-225M-6/6c3	YZRW225M-6 YZR225M-6	34	250	85	RW1Y32-225M-6/7J	
RW1Y32-250M1-6/6c3	YZRW250M1-6 YZR250M1-6	42	250	103	RW1Y32-250M1-6/7J	
RW1Y32-160L-8/2c3	YZRW160L-8 YZR160L-8	9.0	205	28.1	RW1Y32-160L-8/2B	
RW1Y32-180L-8/3c3	YZRW180L-8 YZR180L-8	13	172	47.8	RW1Y32-180L-8/4J	
RW1Y32-200L-8/3c3	YZRW200L-8 YZR200L-8	18.5	178	67.2	RW1Y32-200L-8/4J	
RW1Y32-225M-8/5c3	YZRW225M-8 YZR225M-8	26	232	71.2	RW1Y32/225M-8/6J	

ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)		
RW1Y32-250M1-8/6c3	YZRW250M1-8 YZR250M1-8	35	272	80	RW1Y32-250M1-8/7J	图4-4
RW1Y32-250M2-8/7c3	YZRW250M2-8 YZR250M2-8	42	335	79	RW1Y32-250M2-8/8J	
RW1Y34-112M-6/1c3	YZRW112M-6 YZR112M-6	1.5	100	12.5	RW1Y34-112M-6/1B	
RW1Y34-132M1-6/1c3	YZRW132M1-6 YZR132M1-6	2.2	132	12.6	RW1Y34-132M1-6/1B	
RW1Y34-132M2-6/1c3	YZRW132M2-6 YZR132M2-6	3.7	185	14.5	RW1Y34-132M2-6/1B	
RW1Y34-160M1-6/2c3	YZRW160M1-6 YZR160M1-6	5.5	138	25.7	RW1Y34-160M1-6/2B	
RW1Y34-160M2-6/2c3	YZRW160M2-6 YZR160M2-6	7.5	185	26.5	RW1Y34-160M2-6/2B	
RW1Y34-160L-6/3c3	YZRW160L-6 YZR160L-6	11	250	27.6	RW1Y34-160L-6/3J	
RW1Y34-180L-6/4c3	YZRW180L-6 YZR180L-6	15	218	46.5	RW1Y34-180L-6/5J	
RW1Y34-200L-6/4c3	YZRW200L-6 YZR200L-6	22	200	69.9	RW1Y34-200L-6/5J	
RW1Y34-225M-6/6c3	YZRW225M-6 YZR225M-6	30	250	74.4	RW1Y34-225M-6/7J	
RW1Y34-250M1-6/7c3	YZRW250M1-6 YZR250M1-6	37	250	91.5	RW1Y34-250M1-6/8J	
RW1Y34-160L-8/2c3	YZRW160L-8 YZR160L-8	7.5	205	23	RW1Y34-160L-8/2B	
RW1Y34-180L-8/3c3	YZRW180L-8 YZR180L-8	11	172	44	RW1Y34-180L-8/4J	
RW1Y34-200L-8/3c3	YZRW200L-8 YZR200L-8	15	178	53.5	RW1Y34-200L-8/4J	
RW1Y34-225M-8/5c3	YZRW225M-8 YZR225M-8	22	232	59.1	RW1Y34-225M-8/6J	
RW1Y34-250M1-8/6c3	YZRW250M1-8 YZR250M1-8	30	272	68.8	RW1Y34-250M1-8/7J	
RW1Y34-250M2-8/6c3	YZRW250M2-8 YZR250M2-8	37	335	70	RW1Y34-250M2-8/7J	
RW2Y32-112M-6/1c3	YZRW112M-6 YZR112M-6	1.8	100	13.4	RW2Y32-112M-6/1B	图4-3
RW2Y32-132M1-6/1c3	YZRW132M1-6 YZR132M1-6	2.5	132	12.9	RW2Y32-132M1-6/1B	
RW2Y32-132M2-6/1c3	YZRW132M2-6 YZR132M2-6	4.0	185	14.2	RW2Y32-132M2-6/1B	
RW2Y32-160M1-6/1c3	YZRW160M1-6 YZR160M1-6	6.3	138	29.4	RW2Y32-160M1-6/2B	
RW2Y32-160M2-6/2c3	YZRW160M2-6 YZR160M2-6	8.5	185	29.8	RW2Y32-160M2-6/2B	
RW2Y32-160L-6/2c3	YZRW160L-6 YZR160L-6	13	250	31.6	RW2Y32-160L-6/2B	
RW2Y32-180L-6/3c3	YZRW180L-6 YZR180L-6	17	218	49.8	RW2Y32-180L-6/3J	
RW2Y32-200L-6/3c3	YZRW200L-6 YZR200L-6	26	200	82.4	RW2Y32-200L-6/4J	
RW2Y32-225M-6/4c3	YZRW225M-6 YZR225M-6	34	250	85	RW2Y32-225M-6/5J	
RW2Y32-250M1-6/4c3	YZRW250M1-6 YZR250M1-6	42	250	103	RW2Y32-250M1-6/5J	
RW2Y32-160L-8/2c3	YZRW160L-8 YZR160L-8	9.0	205	28.1	RW2Y32-160L-8/2B	
RW2Y32-180L-8/3c3	YZRW180L-8 YZR180L-8	13	172	47.8	RW2Y32-180L-8/3J	
RW2Y32-200L-8/3c3	YZRW200L-8 YZR200L-8	18.5	178	67.2	RW2Y32-200L-8/3J	
RW2Y32-225M-8/3c3	YZRW225M-8 YZR225M-8	26	232	71.2	RW2Y32-225M-8/4J	
RW2Y32-250M1-8/4c3	YZRW250M1-8 YZR250M1-8	35	272	80	RW2Y32-250M1-8/5J	
RW2Y32-250M2-8/5c3	YZRW250M2-8 YZR250M2-8	42	335	79	RW2Y32-250M2-8/6J	
RW2Y34-112M-6/1c3	YZRW112M-6 YZR112M-6	1.5	100	12.5	RW2Y34-112M-6/1B	

ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)		
RW2Y34-132M1-6/1c3	YZRW132M1-6 YZR132M1-6	2.2	132	12.6	RW2Y34-132M1-6/1B	图4-3
RW2Y34-132M2-6/1c3	YZRW132M2-6 YZR132M2-6	3.7	185	14.5	RW2Y34-132M2-6/1B	
RW2Y34-160M1-6/1c3	YZRW160M1-6 YZR160M1-6	5.5	138	25.7	RW2Y34-160M1-6/1B	
RW2Y34-160M2-6/2c3	YZRW160M2-6 YZR160M2-6	7.5	185	26.5	RW2Y34-160M2-6/2B	
RW2Y34-160L-6/2c3	YZRW160L-6 YZR160L-6	11	250	27.6	RW2Y34-160L-6/2B	
RW2Y34-180L-6/3c3	YZRW180L-6 YZR180L-6	15	218	46.5	RW2Y34-180L-6/4J	
RW2Y34-200L-6/3c3	YZRW200L-6 YZR200L-6	22	200	69.9	RW2Y34-200L-6/4J	
RW2Y34-225M-6/4c3	YZRW225M-6 YZR225M-6	30	250	74.4	RW2Y34-225M-6/5J	
RW2Y34-250M1-6/5c3	YZRW250M1-6 YZR250M1-6	37	250	91.5	RW2Y34-250M1-6/6J	
RW2Y34-160L-8/2c3	YZRW160L-8 YZR160L-8	7.5	205	23	RW2Y34-160L-8/2B	
RW2Y34-180L-8/3c3	YZRW180L-8 YZR180L-8	11	172	44	RW2Y34-180L-8/3J	
RW2Y34-200L-8/3c3	YZRW200L-8 YZR200L-8	15	178	53.5	RW2Y34-200L-8/3J	
RW2Y34-225M-8/3c3	YZRW225M-8 YZR225M-8	22	232	59.1	RW2Y34-225M-8/4J	
RW2Y34-250M1-8/4c3	YZRW250M1-8 YZR250M1-8	30	272	68.8	RW2Y34-250M1-8/5J	
RW2Y34-250M2-8/4c3	YZRW250M2-8 YZR250M2-8	37	335	70	RW2Y34-250M2-8/5J	
RW1Y42-112M-6/1c3	YZRW112M-6 YZR112M-6	1.6	100	11.3	RW1Y42-112M-6/1B	图4-4
RW1Y42-132M1-6/1c3	YZRW132M1-6 YZR132M1-6	2.2	132	11.2	RW1Y42-132M1-6/1B	
RW1Y42-132M2-6/1c3	YZRW132M2-6 YZR132M2-6	3.7	185	13.1	RW1Y42-132M2-6/1B	
RW1Y42-160M1-6/2c3	YZRW160M1-6 YZR160M1-6	5.8	138	27.3	RW1Y42-160M1-6/2B	
RW1Y42-160M2-6/2c3	YZRW160M2-6 YZR160M2-6	7.5	185	27.6	RW1Y42-160M2-6/2B	
RW1Y42-160L-6/3c3	YZRW160L-6 YZR160L-6	11	250	27.8	RW1Y42-160L-6/3J	
RW1Y42-180L-6/3c3	YZRW180L-6 YZR180L-6	15	218	43.7	RW1Y42-180L-6/5J	
RW1Y42-200L-6/4c3	YZRW200L-6 YZR200L-6	21	200	55.4	RW1Y42-200L-6/5J	
RW1Y42-225M-6/5c3	YZRW225M-6 YZR225M-6	28	250	70	RW1Y42-225M-6/6J	
RW1Y42-250M1-6/5c3	YZRW250M1-6 YZR250M1-6	33	250	82.6	RW1Y42-250M1-6/6J	
RW1Y42-160L-8/2c3	YZRW160L-8 YZR160L-8	7.5	205	22.8	RW1Y42-160L-8/2B	
RW1Y42-180L-8/2c3	YZRW180L-8 YZR180L-8	11	172	40.6	RW1Y42-180L-8/3J	
RW1Y42-200L-8/3c3	YZRW200L-8 YZR200L-8	15	178	54.1	RW1Y42-200L-8/4J	
RW1Y42-225M-8/4c3	YZRW225M-8 YZR225M-8	21	232	56.8	RW1Y42-225M-8/5J	
RW1Y42-250M1-8/6c3	YZRW250M1-8 YZR250M1-8	29	272	68.5	RW1Y42-250M1-8/7J	
RW1Y42-250M2-8/6c3	YZRW250M2-8 YZR250M2-8	33	335	62.5	RW1Y42-250M2-8/7J	
RW1Y44-112M-6/1c3	YZRW112M-6 YZR112M-6	1.3	100	8.85	RW1Y44-112M-6/1B	
RW1Y44-132M1-6/1c3	YZRW132M1-6 YZR132M1-6	2.0	132	10	RW1Y44-132M1-6/1B	
RW1Y44-132M2-6/1c3	YZRW132M2-6 YZR132M2-6	3.5	185	11.2	RW1Y44-132M2-6/1B	
RW1Y44-160M1-6/2c3	YZRW160M1-6 YZR160M1-6	5.0	138	23.4	RW1Y44-160M1-6/2B	

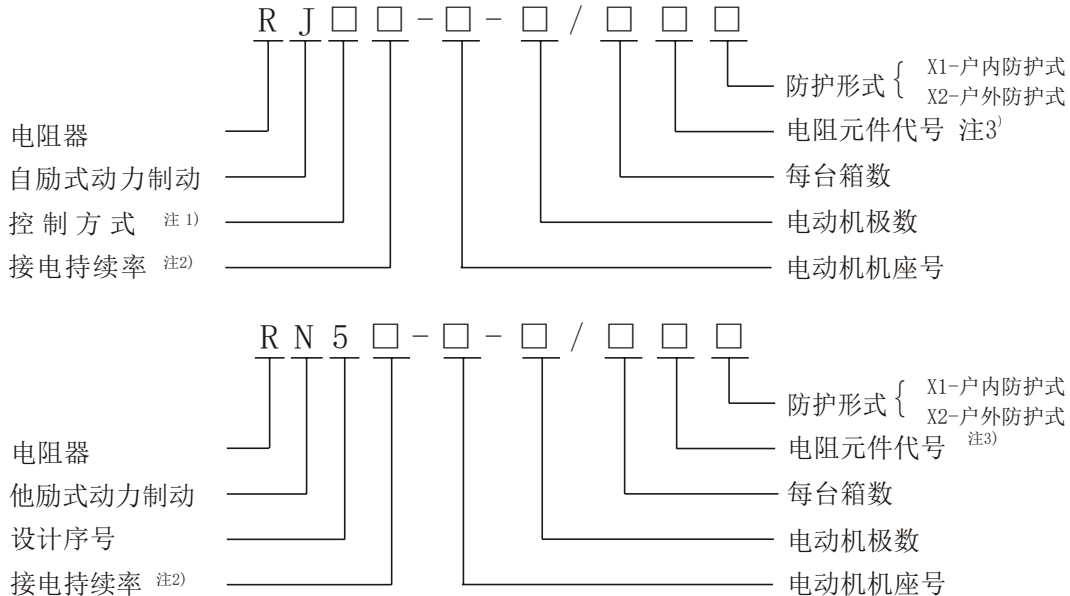
ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)		
RW1Y44-160M2-6/2c3	YZRW160M2-6 YZR160M2-6	7.0	185	25.6	RW1Y44-160M2-6/2B	图4-4
RW1Y44-160L-6/3c3	YZRW160L-6 YZR160L-6	10	250	25	RW1Y44-160L-6/3B	
RW1Y44-180L-6/3c3	YZRW180L-6 YZR180L-6	13	218	37.7	RW1Y44-180L-6/4J	
RW1Y44-200L-6/3c3	YZRW200L-6 YZR200L-6	18.5	200	48.5	RW1Y44-200L-6/4J	
RW1Y44-225M-6/6c3	YZRW225M-6 YZR225M-6	25	250	62.2	RW1Y44-225M-6/7J	
RW1Y44-250M1-6/6c3	YZRW250M1-6 YZR250M1-6	30	250	74.9	RW1Y44-250M1-6/7J	
RW1Y44-160L-8/2c3	YZRW160L-8 YZR160L-8	7.0	205	21.2	RW1Y44-160L-8/2B	
RW1Y44-180L-8/3c3	YZRW180L-8 YZR180L-8	10	172	36.6	RW1Y44-180L-8/4J	
RW1Y44-200L-8/3c3	YZRW200L-8 YZR200L-8	13	178	46.6	RW1Y44-200L-8/4J	
RW1Y44-225M-8/3c3	YZRW225M-8 YZR225M-8	18.5	232	49.7	RW1Y44-225M-8/4J	
RW1Y44-250M1-8/4c3	YZRW250M1-8 YZR250M1-8	25	272	58.7	RW1Y44-250M1-8/5J	
RW1Y44-250M2-8/5c3	YZRW250M2-8 YZR250M2-8	30	335	56.6	RW1Y44-250M2-8/7J	
RW2Y42-112M-6/1c3	YZRW112M-6 YZR112M-6	1.6	100	11.3	RW2Y42-112M-6/1B	图4-3
RW2Y42-132M1-6/1c3	YZRW132M1-6 YZR132M1-6	2.2	132	11.2	RW2Y42-132M1-6/1B	
RW2Y42-132M2-6/1c3	YZRW132M2-6 YZR132M2-6	3.7	185	13.1	RW2Y42-132M2-6/1B	
RW2Y42-160M1-6/1c3	YZRW160M1-6 YZR160M1-6	5.8	138	27.3	RW2Y42-160M1-6/2B	
RW2Y42-160M2-6/2c3	YZRW160M2-6 YZR160M2-6	7.5	185	27.6	RW2Y42-160M2-6/2B	
RW2Y42-160L-6/2c3	YZRW160L-6 YZR160L-6	11	250	27.8	RW2Y42-160L-6/2B	
RW2Y42-180L-6/3c3	YZRW180L-6 YZR180L-6	15	218	43.7	RW2Y42-180L-6/4J	
RW2Y42-200L-6/3c3	YZRW200L-6 YZR200L-6	21	200	55.4	RW2Y42-200L-6/4J	
RW2Y42-225M-6/3c3	YZRW225M-6 YZR225M-6	28	250	70	RW2Y42-225M-6/4J	
RW2Y42-250M1-6/4c3	YZRW250M1-6 YZR250M1-6	33	250	82.6	RW2Y42-250M1-6/5J	
RW2Y42-160L-8/2c3	YZRW160L-8 YZR160L-8	7.5	205	22.8	RW2Y42-160L-8/2B	
RW2Y42-180L-8/2c3	YZRW180L-8 YZR180L-8	11	172	40.6	RW2Y42-180L-8/2J	
RW2Y42-200L-8/2c3	YZRW200L-8 YZR200L-8	15	178	54.1	RW2Y42-200L-8/3J	
RW2Y42-225M-8/3c3	YZRW225M-8 YZR225M-8	21	232	56.8	RW2Y42-225M-8/3J	
RW2Y42-250M1-8/4c3	YZRW250M1-8 YZR250M1-8	29	272	68.5	RW2Y42-250M1-8/5J	
RW2Y42-250M2-8/5c3	YZRW250M2-8 YZR250M2-8	33	335	62.5	RW2Y42-250M2-8/5J	
RW2Y44-112M-6/1c3	YZRW112M-6 YZR112M-6	1.3	100	8.85	RW2Y44-112M-6/1B	
RW2Y44-132M1-6/1c3	YZRW132M1-6 YZR132M1-6	2.0	132	10	RW2Y44-132M1-6/1B	
RW2Y44-132M2-6/1c3	YZRW132M2-6 YZR132M2-6	3.5	185	11.2	RW2Y44-132M2-6/1B	
RW2Y44-160M1-6/2c3	YZRW160M1-6 YZR160M1-6	5.0	138	23.4	RW2Y44-160M1-6/2B	
RW2Y44-160M2-6/2c3	YZRW160M2-6 YZR160M2-6	7.0	185	25.6	RW2Y44-160M2-6/2B	
RW2Y44-160L-6/2c3	YZRW160L-6 YZR160L-6	10	250	25	RW2Y44-160L-6/2B	
RW2Y44-180L-6/3c3	YZRW180L-6 YZR180L-6	13	218	37.7	RW2Y44-180L-6/3	

ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)		
RW2Y44-200L-6/3c3	YZRW200L-6 YZR200L-6	18.5	200	48.5	RW2Y44-200L-6/3J	图4-3
RW2Y44-225M-6/3c3	YZRW225M-6 YZR225M-6	25	250	62.2	RW2Y44-225M-6/4J	
RW2Y44-250M1-6/4c3	YZRW250M1-6 YZR250M1-6	30	250	74.9	RW2Y44-250M1-6/5J	
RW2Y44-160L-8/2c3	YZRW160L-8 YZR160L-8	7.0	205	21.2	RW2Y44-160L-8/2B	
RW2Y44-180L-8/3c3	YZRW180L-8 YZR180L-8	10	172	36.6	RW2Y44-180L-8/3J	
RW2Y44-200L-8/3c3	YZRW200L-8 YZR200L-8	13	178	46.6	RW2Y44-200L-8/3J	
RW2Y44-225M-8/3c3	YZRW225M-8 YZR225M-8	18.5	232	49.7	RW2Y44-225M-8/3J	
RW2Y44-250M1-8/3c3	YZRW250M1-8 YZR250M1-8	25	272	58.7	RW2Y44-250M1-8/4J	
RW2Y44-250M2-8/4c3	YZRW250M2-8 YZR250M2-8	30	335	56.6	RW2Y44-250M2-8/5J	

励磁式动力制动调速系统成套电阻器

本系列成套电阻器主要用作交流起重机励磁式电控设备配套的YZR系列绕线式异步电动机的起动与下降动力制动调速电阻。系统调速范围：D=3~5。按励磁方式不同可分为：自励式和他励式。而自励式根据不同的控制方式可分为直接控制（凸轮式）和间接控制（主令式）。

一、型号含义

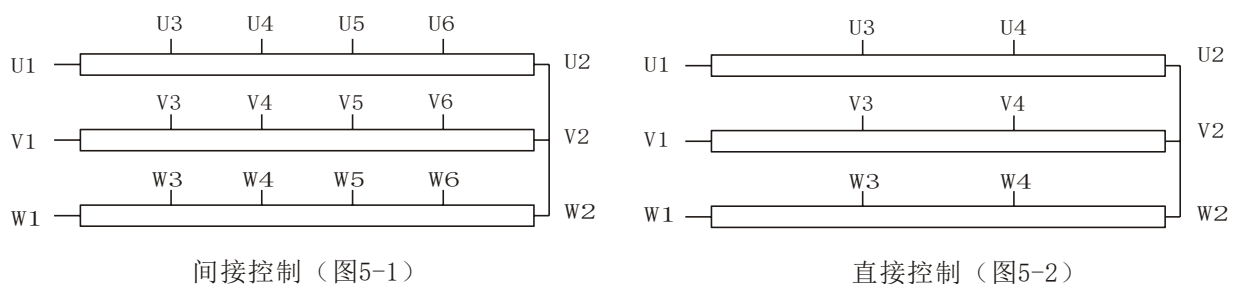


注：

- 1) 控制方式：“1”—间接控制（主令式）；“3”—直接控制（凸轮式）
- 2) 接电持续率TD%：“2”—25%；“4”—40%；“6”—60%；
- 3) 电阻元件代号：
 - “B”—ZB1或ZB2型康铜丝（带）绕制的板形电阻元件；
 - “D”或“Y”—ZD2型铁铬铝带绕制的圆筒形电阻元件；
 - “T”—ZT1或ZT2型铸铁电阻元件；
 - “J”—ZJ1型铁铬铝带绕制的大波浪形电阻元件；
 - “c3”—Zc3型不锈钢板冲制而成的网板形电阻元件。

二、励磁式动力制动调速系统成套电阻器新旧型号对照

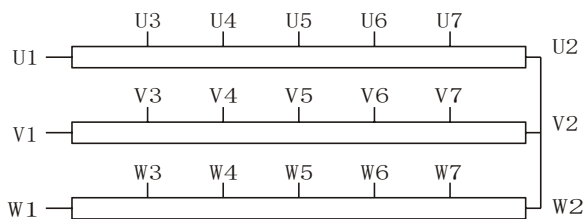
1. 自励磁动力制动调速系统成套电阻器接线原理图：



ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)		
RJ12-160M2-6/2c3	YZR160M2-6	8.5	185	29.8	RJ12-160M2-6/2B	图5-1
RJ12-160L-6/2c3	YZR160L-6	13	250	31.6	RJ12-160L-6/2B	
RJ12-180L-6/3c3	YZR180L-6	17	218	49.8	RJ12-180L-6/4L	
RJ12-200L-6/4c3	YZR250M1-6	26	200	82.4	RJ12-200L-6/5J	
RJ12-225M-6/4c3	YZR250M2-6	34	250	85	RJ12-225M-6/6J	
RJ12-250M1-6/4c3	YZR250M1-6	42	250	103	RJ12-250M1-6/6J	
RJ12-250M2-6/5c3	YZR250M2-6	52	290	110	RJ12-250M2-6/6J	
RJ12-280S-6/5c3	YZR280S-6	63	280	142	RJ12-280S-6/7J	
RJ12-280M-6/8c3	YZR280M-6	85	370	140	RJ12-280M-6/10J	
RJ12-160L-8/2c3	YZR160L-8	9.0	205	28.1	RJ12-160L-8/2B	
RJ12-180L-8/3c3	YZR180L-8	13	172	47.8	RJ12-180L-8/4J	
RJ12-200L-8/3c3	YZR200L-8	18.5	178	67.2	RJ12-200L-8/4J	
RJ12-225M-8/3c3	YZR225M-8	26	232	71.2	RJ12-225M-8/4J	
RJ12-250M1-8/4c3	YZR250M1-8	35	272	80	RJ12-250M1-8/5J	
RJ12-250M2-8/4c3	YZR250M2-8	42	335	79	RJ12-250M2-8/6J	
RJ12-280S-8/6c3	YZR280S-8	51	305	108	RJ12-280S-8/8J	
RJ12-280M-8/6c3	YZR280M-8	63	360	110	RJ12-280M-8/9J	
RJ12-315S-8/10c3	YZR315S-8	85	302	180	RJ12-315S-8/12J	
RJ12-280S-10/4c3	YZR280S-10	42	150	177.1	RJ12-280S-10/6J	
RJ12-280M-10/6c3	YZR280M-10	55	172	207	RJ12-280M-10/8J	
RJ12-315S-10/6c3	YZR315S-10	63	242	161.9	RJ12-315S-10/8J	
RJ12-315M-10/7c3	YZR315M-10	85	325	171	RJ12-315M-10/9J	
RJ12-355M-10/11c3	YZR355M-10	110	330	207	RJ12-355M-10/14J	
RJ14-160M2-6/2c3	YZR160M2-6	7.5	185	26.5	RJ14-160M2-6/2J	
RJ14-160L-6/2c3	YZR160L-6	11	250	27.6	RJ14-160L-6/2J	
RJ14-180L-6/3c3	YZR180L-6	15	218	46.5	RJ14-180L-6/4J	
RJ14-200L-6/4c3	YZR200L-6	22	200	69.9	RJ14-200L-6/5J	
RJ14-225M-6/4c3	YZR225M-6	30	250	74.4	RJ14-225M-6/6J	
RJ14-250M1-6/5c3	YZR250M1-6	37	250	91.5	RJ14-250M1-6/7J	
RJ14-250M2-6/6c3	ZR250M2-6	45	290	95	RJ14-250M2-6/8J	
RJ14-280S-6/6c3	YZR280S-6	55	280	119.8	RJ14-280S-6/9J	
RJ14-280M-6/9c3	YZR280M-6	75	370	122.6	RJ14-280M-6/13J	
RJ14-160L-8/2c3	YZR160L-8	7.5	205	23	RJ14-160L-8/2B	
RJ14-180L-8/2c3	YZR180L-8	11	172	44	RJ14-180L-8/3J	
RJ14-200L-8/2c3	YZR200L-8	15	178	53.5	RJ14-200L-8/4J	

ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)		
RJ14-225M-8/3c3	YZR225M-8	22	232	59.1	RJ14-225M-8/4J	图5-1
RJ14-250M 1-8/5c3	YZR250M1-8	30	272	68.8	RJ14-250M1-8/7J	
RJ14-250M 2-8/5c3	YZR250M2-8	37	335	70	RJ14-250M2-8/7L	
RJ14-280S-8/ 5c3	YZR280S-8	45	305	94	RJ14-280S-8/7J	
RJ14-280M-8/6c3	YZR280M-8	55	360	92.5	RJ14-280M-8/9J	
RJ14-315S-8/ 10c3	YZR315S-8	75	302	159	RJ14-315S-8/14J	
RJ14-280S-10/6c 3	YZR280S-10	37	150	153.2	RJ14-280S-10/8J	
RJ14-280M-10/6c3	YZR280M-10	45	172	165	RJ14-280M-10/8J	
RJ14-315S-10/6c 3	YZR315S-10	55	242	138.7	RJ14-315S-10/9J	
RJ14-315M-10/9c3	YZR315M-10	75	325	149.3	RJ14-315M-10/14J	
RJ14-355M-10/9c3	YZR355M-10	90	330	166.6	RJ14-355M-10/14J	
RJ32-160M 2-6/ 1c3	YZR160M2-6	8.5	185	29.8	RJ32-160M2-6/1B	图5-2
RJ32-160L- 6/2c3	YZR160L-6	13	250	31.6	RJ32-160L-6/2B	
RJ32-180L- 6/3c3	YZR180L-6	17	218	49.8	RJ32-180L-6/3J	
RJ32-200L- 6/3c3	YZR200-6	26	200	82.4	RJ32-200L-6/3J	
RJ32-160L- 8/2c3	YZR160L-8	9.0	205	28.1	RJ32-160L-8/2B	
RJ32-180L- 8/2c3	YZR180L-8	13	172	47.8	RJ32-180L-8/2J	
RJ32-200L- 8/3c3	YZR200L-8	18.5	178	67.2	RJ32-200L-8/3J	
RJ32-225M-8/3c3	YZR225M-8	26	232	71.2	RJ32-225M-8/3J	
RJ34-160M 2-6/ 2c3	YZR160M2-6	7.5	185	26.5	RJ34-160M2-6/2B	
RJ34-160L- 6/2c3	YZR160L-6	11	250	27.6	RJ34-160L-6/2B	
RJ34-180L- 6/3c3	YZR180L-6	15	218	46.5	RJ34-180L-6/3J	
RJ34-200L- 6/3c3	YZR200L-6	22	200	69.9	RJ34-200L-6/4J	
RJ34-160L- 8/2c3	YZR160L-8	7.5	205	23	RJ34-160L-8/2B	
RJ34-180L- 8/3c3	YZR180L-8	11	172	44	RJ34-180L-8/3J	
RJ34-200L- 8/3c3	YZR200L-8	15	178	53.5	RJ34-200L-8/3J	
RJ34-225M-8/3c3	YZR225M-8	22	232	59.1	RJ34-225M-8/3J	

2. 他励磁动力制动调速系统成套电阻器接线原理图：



(图5-3)

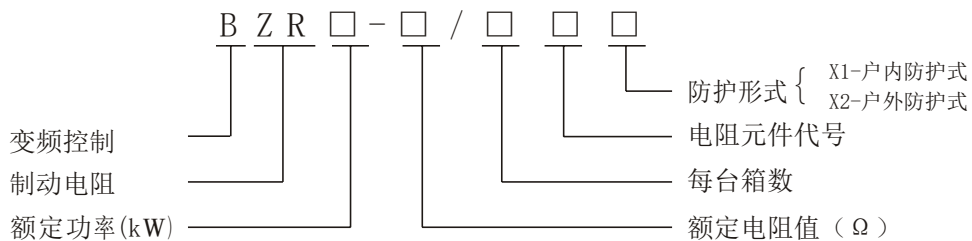
ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)		
RN52-225M-6/2c3	YZR225M-6	34	250	85	RN302-225M-6/3D	图5-3
RN52-250M1-6/3c3	YZR250M1-6	42	250	103	RN302-250M1-6/3D	
RN52-250M2-6/3c3	YZR250M2-6	52	290	110	RN302-250M2-6/4D	
RN52-280S-6/4c3	YZR280S-6	63	280	142	RN302-280S-6/4D	
RN52-280M-6/5c3	YZR280M-6	85	370	140	RN302-280M-6/5D	
RN52-250M1-8/3c3	YZR250M1-8	35	272	80	RN302-250M1-8/3D	
RN52-250M2-8/3c3	YZR250M2-8	42	335	79	RN302-250M2-8/3D	
RN52-280S-8/3c3	YZR280S-8	51	305	108	RN302-280S-8/3D	
RN52-280M-8/4c3	YZR280M-8	63	360	110	RN302-280M-8/4D	
RN52-315S-8/6c3	YZR315S-8	85	302	180	RN302-315S-8/6D	
RN52-315M-8/6c3	YZR315M-8	100	372	183.5	RN302-315M-8/6D	
RN52-280S-10/3c3	YZR280S-10	42	150	177.1	RN302-280S-10/3D	
RN52-280M-10/3c3	YZR280M-10	55	172	207	RN302-280M-10/4D	
RN52-315S-10/4c3	YZR315S-10	63	242	161.9	RN302-315S-10/4D	
RN52-315M-10/5c3	YZR315M-10	85	325	171	RN302-315M-10/5D	
RN52-355M-10/7c3	YZR355M-10	110	330	207	RN302-355M-10/7D	
RN52-355L1-10/8c3	YZR355L1-10	132	388	213	RN302-355L1-10/8D	
RN52-355L2-10/9c3	YZR355L2-10	150	475	194	RN302-355L2-10/9D	
RN52-400L1-10/11c3	YZR400L1-10	190	395	300	RN302-400L1-10/11D	
RN52-400L2-10/15c3	YZR400L2-10	240	460	308	RN302-400L2-10/15D	
RN54-225M-6/3c3	YZR225M-6	30	250	74.4	RN304-225M-6/3D	
RN54-250M1-6/3c3	YZR250M1-6	37	250	91.5	RN304-250M1-6/3D	
RN54-250M2-6/4c3	YZR250M2-6	45	290	95	RN304-250M2-6/4D	
RN54-280S-6/5c3	YZR280S-6	55	280	119.8	RN304-280S-6/5D	
RN54-280M-6/6c3	YZR280M-6	75	370	122.6	RN304-280M-6/6D	
RN54-250M1-8/3c3	YZR250M1-8	30	272	68.8	RN304-250M1-8/3D	
RN54-250M2-8/4c3	YZR280M2-8	37	335	70	RN54-250M2-8/4D	
RN54-280S-8/4c3	YZR280S-8	45	305	94	RN304-280S-8/4D	
RN54-280M-8/5c3	YZR280M-8	55	360	92.5	RN304-280M-8/5D	
RN54-315S-8/6c3	YZR315S-8	75	302	159	RN304-315S-8/6D	
RN54-315M-8/7c3	YZR315M-8	90	372	160.9	RN304-315M-8/8D	
RN54-280S-10/3c3	YZR280S-10	37	150	153.2	RN304-280S-10/3D	
RN54-280M-10/4c3	YZR280M-10	45	172	165	RN304-280M-10/4D	
RN54-315S-10/4c3	YZR315S-10	55	242	138.7	RN304-315S-10/5D	
RN54-315M-10/6c3	YZR315M-10	75	325	149.3	RN304-315M-10/6D	

ZX16型不锈钢 电阻器型号	电动机基本技术参数				可替代老式 电阻器型号	接线图
	电动机型号	容量 (KW)	转子电压 (V)	转子电流 (A)		
RN54-355M-10/7c3	YZR355M-10	90	330	166.6	RN304-355M-10/8D	图5-3
RN54-355L1-10/9c3	YZR355L1-10	110	388	172	RN304-355L1-10/9D	
RN54-355L2-10/11c3	YZR355L2-10	132	475	167.5	RN304-355L2-10/11D	
RN54-400L1-10/12c3	YZR400L1-10	160	395	250	RN304-400L1-10/12D	
RN54-400L2-10/14c3	YZR400L2-10	200	460	258	RN304-400L2-10/14D	
RN56-225M-6/3c3	YZR225M-6	26	250	64.5	RN306-225M-6/3D	
RN56-250M1-6/4c3	YZR250M1-6	32	250	79	RN306-250M1-6/4D	
RN56-250M2-6/4c3	YZR250M2-6	39	290	83	RN306-250M2-6/5D	
RN56-280S-6/5c3	YZR280S-6	48	280	107.1	RN306-280S-6/5D	
RN56-280M-6/6c3	YZR280M-6	63	370	104	RN306-280M-6/6D	
RN56-250M1-8/3c3	YZR250M1-8	26	272	59.1	RN306-250M1-8/3D	
RN56-250M2-8/4c3	YZR250M2-8	32	335	60	RN306-250M2-8/4D	
RN56-280S-8/4c3	YZR280S-8	38	305	80	RN306-280S-8/5D	
RN56-280M-8/6c3	YZR280M-8	48	360	82.8	RN306-280M-8/6D	
RN56-315S-8/7c3	YZR315S-8	63	302	132	RN306-315S-8/7D	
RN56-315M-8/8c3	YZR315M-8	75	372	136	RN306-315M-8/9D	
RN56-280S-10/4c3	YZR280S-10	32	150	133.4	RN306-280S-10/4D	
RN56-280M-10/4c3	YZR280M-10	37	172	136	RN306-280M-10/4D	
RN56-315S-10/5c3	YZR315S-10	48	242	122	RN306-315S-10/5D	
RN56-315M-10/6c3	YZR315M-10	63	325	124.8	RN306-315M-10/6D	
RN56-355M-10/9c3	YZR355M-10	75	330	140	RN306-355M-10/9D	
RN56-355L1-10/10c3	YZR355L1-10	90	388	143	Rn306-355L1-10/10D	
RN56-355L2-10/12c3	YZR355L2-10	110	475	141.8	RN306-355L2-10/12D	
RN56-400L1-10/14c3	YZR400L1-10	135	395	210	RN306-400L1-10/14D	
RN56-400L2-10/15c3	YZR400L2-10	177	460	224	RN306-400L2-10/15D	

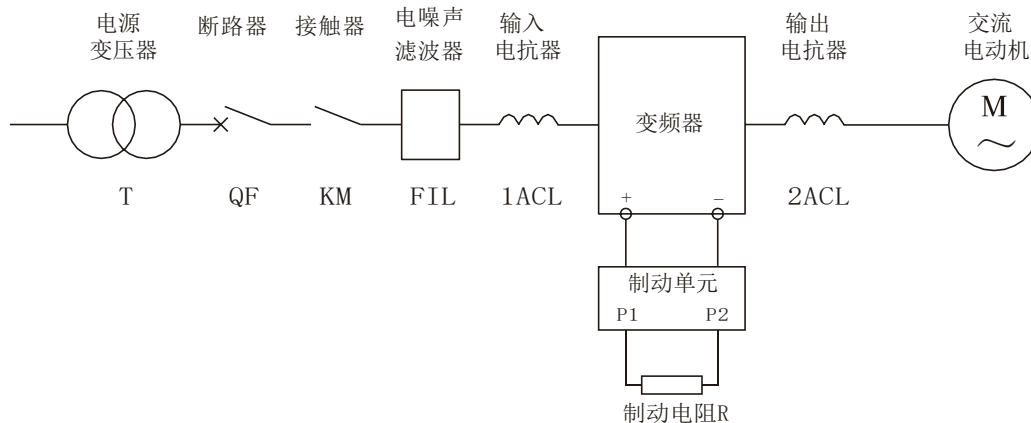
交流起重机变频调速 · 制动电阻

在交流起重机变频调速控制系统中，当电动机处于反接制动或再生制动状态时，变频器内部直流电路的储能电容两端的电压将升高，为了避免电压过高而使直流过压保护动作，必须将这部分能量回馈至电网或通过制动单元外接电阻释放。变频器供应商都有各自的标准系列产品。目前国内应用比较广泛的变频器有日本安川VS-616G5，CIMR-G7A系列、三菱公司的FR-A240E、FR-A241E系列、ABB公司的ACS600系列、ACS800系列、德国西门子的SIMOVERT-6ES70系列等等。现将日本安川VS-616G5、CIMR-G7A系列、ABB公司的ACS800系列等常用变频器的基本参数及制动电阻列表供用户参考选型。表中制动电阻的功率一般适用于平移机构，当用于起升机构时，制动电阻的制动功率 P_b (kW) 可根据起重量 Q (t)、机构运行速度 v (m/s)、系统机械效率 η 、有效行程 H (m) 来估算（忽略环境因素的影响）： $P_b=8Q \cdot v \cdot \eta$

一、型号含义



二、变频调速系统示意图



(图6-1)

三、安川CIMR-G7A (VS-616G5) 系列变频器制动单元及制动电阻 (400V级)

序号	变频器		制动单元		制动电阻			
	电机功率 max (kW)	规格型号 CIMR-G7A□	规格型号 CDBR-□	数量 (台)	制动功率 及电阻值	规格型号		数量 (套)
						标准型	加长型	
1	0.4	40P4	内置		70W/75Ω	RXHG70W750RKM		1
2	0.75	40P7			70W/75Ω	RXHG70W750RKM		1
3	1.5	41P5			260W/400Ω	RXHG260W400RKM		1
4	2.2	42P2			260W/250Ω	RXHG260W250RKM		1
5	3.7	43P7			390W/150Ω	RXHG390W150RKM		1
6	5.5	45P5			520W/100Ω	RXHG520W100RKM		1
7	7.5	47P5			780W/75Ω	RXHG780W75RKM		1
8	11	4011			1040W/50Ω	BZR1.2-50/1c3B*		1
9	15	4015			1560W/40Ω	BZR2-40/1c3B*		1
10	18	4018	4030B	1	4.8kW/32Ω	BZR5-32/1c3		1
11	22	4022	4030B	1	4.8kW/27.2Ω	BZR70-750/1G		1
12	30	4030	4030B	1	6kW/20Ω	BZR6-20/1c3		1
13	37	4037	4045B	1	9.6kW/16Ω	BZR10-16/2c3	BZR10-16/1c3	1
14	45	4045	4045B	1	6kW/13.6Ω	BZR6-13.6/1c3		1
15	55	4055	4030B	2	6kW/20Ω	BZR6-20/1c3		2
16	75	4075	4045B	2	9.6kW/13.6Ω	BZR10-13.6/2c3	BZR10-13.6/1c3	2
17	90	4090	4220B	1	18kW/6.7Ω	BZR20-6.7/4c3	BZR20-6.7/2c3	1
18	110	4110	4220B	1	18kW/6.7Ω	BZR20-6.7/4c3	BZR20-6.7/2c3	1
19	132	4132	4220B	1	38.4kW/3.4Ω	BZR40-3.4/8c3	BZR40-3.4/4c3	1
20	160	4160	4220B	1	38.4kW/3.4Ω	BZR40-3.4/8c3	BZR40-3.4/4c3	1
21	185	4185	4220B	1	38.4kW/3.4Ω	BZR40-3.4/8c3	BZR40-3.4/4c3	1
22	220	4220	4220B	1	48kW/3.2Ω	BZR50-3.2/10c3	BZR50-3.2/5c3	1
23	300	4300	4220B	2	30kW/4.54Ω	BZR30-4.54/6c3	BZR30-4.54/3c3	2

*注：表示外形尺寸为：440×375×180

四、ABB公司ACS800系列变频器制动单元及制动电阻

序号	变频器 ACS800-□		斩波器 功率 Phrcont(kW)	制动电阻		
				制动功率 及电阻值	规格型号	
					标准型	加长型
1	01-0003-3	01-0004-5	1.1	1000W/44Ω	BZR1.0-44/1c3B*	
2	01-0004-3	01-0005-5	1.5			
3	01-0005-3	01-0006-5	2.2			
4	01-0006-3	01-0009-5	3.0			
5	01-0009-3	01-0011-5	4.0			
6	01-0011-3	01-0016-5	5.5	2000W/22Ω	BZR2.0-22/1c3B*	
7	01-0016-3	01-0020-5	7.5			
8	01-0020-3	01-0025-5	11			
9	01-0025-3	01-0030-5	23	2000W/13Ω	BZR2.0-13/1c3B*	
10	01-0030-3	01-0040-5	28			
11	01-0040-3	01-0050-5	33	5kW/8.0Ω	BZR5-8/1c3	
12	01-0050-3	01-0060-5	45			
13	01-0060-3	01-0070-5	56			
14	01-0070-3	01-0100-5	68			
15	01-0100-3	01-0120-5	83	10kW/6.0Ω	BZR10-6/2c3	BZR10-6/1c3
16	01-0120-3	01-0140-5	113	10kW/4.0Ω	BZR10-4/2c3	BZR10-4/1c3
17	02-0140-3		66	16kW/2.70Ω	BZR16-2.7/3c3	BZR16-2.7/2c3
18	02-0170-3		66			
19	02-0210-3		66			
20	02-0260-3		120	30kW/1.35Ω	BZR30-1.35/6c3	BZR30-1.35/3c3
21	02-0320-3		120			
22	02-0400-3		120	40kW/1.0Ω	BZR40-1.0/8c3	BZR40-1.0/4c3
23	02-0440-3		120	42kW/0.85Ω	BZR42-0.85/8c3	BZR42-0.85/4c3
24	02-0490-3		120			
25		02-0170-5	80	16kW/2.70Ω	BZR16-2.7/3c3	BZR16-2.7/2c3
26		02-0210-5	80			
27		02-0260-5	80			
28		02-0320-5	170	20kW/2.0Ω	BZR20-2/4c3	BZR20-2/2c3
29		02-0400-5	170	21kW/1.70Ω	BZR21-1.7/4c3	BZR21-1.7/2c3
30		02-0440-5	170	30kW/1.20Ω	BZR30-1.2/6c3	BZR30-1.2/3c3
31		02-0490-5	170	40kW/1.0Ω	BZR40-1.0/8c3	BZR40-1.0/4c3
32		02-0550-5	170			
33		02-0610-5	170			

*注：表示外形尺寸为：440×375×180

五、西门子公司6SE系列变频器配用制动电阻

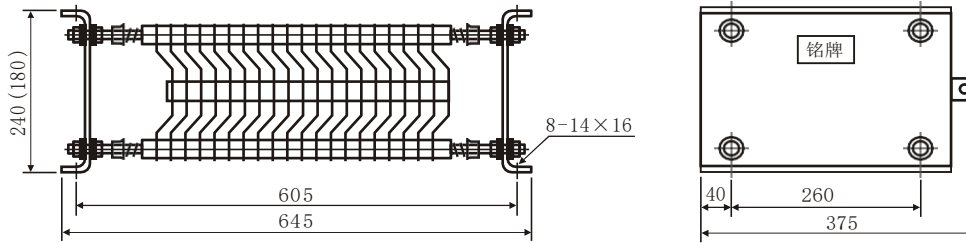
序号	变频器		制动电阻			
	额定功率 (kW)	电压 等级	制动功率 及电阻值	西门子型号	规格型号	
					标准型	加长型
1	0.75	DC450V	50W/180Ω	6SE6400-4BC06-0AA0	RXHG50W180RKM	
2	2.2		120W/68Ω	6SE6400-4BC11-2BA0	RXHG120W68RKM	
3	3.0		250W/39Ω	6SE6400-4BC12-5CA0	RXHG250W39RKM	
4	5.5		300W/27Ω	6SE6400-4BC13-0CA0	RXHG300W27RKM	
5	15		800W/10Ω	6SE6400-4BC18-00A0	RXHG800W10RKM	
6	22		1200W/8.8Ω	6SE6400-4BC21-2EA0	BZR1.2-8.8/1c3B*	
7	45		2500W/3.3Ω	6SE6400-4BC22-5FA0	BZR2.5-3.3/1c3B*	
8	1.5	DC900V	100W/390Ω	6SE6400-4BD11-0AA0	RXHG100W390RKM	
9	4.0		200W/160Ω	6SE6400-4BD12-0BA0	RXHG200W160RKM	
10	11		650W/55Ω	6SE6400-4BD16-5CA0	RXHG650W55RKM	
11	22		1200W/27Ω	6SE6400-4BD21-2DA0	BZR1.2-27/1c3B*	
12	37		2200W/15Ω	6SE6400-4BD22-2EA0	BZR2.2-15/1c3B*	
13	75		4000W/8.2Ω	6SE6400-4BD24-0FA0	BZR4-8.2/1c3	
14	5.5	DC1100V	450W/120Ω	6SE6400-4BE14-5CA0	RXHG450W120RKM	
15	11		650W/82Ω	6SE6400-4BE1B-SCA0	RXHG650W82RKM	
16	22		1300W/39Ω	6SE6400-4BE21-3DA0	BZR1.3-39/1c3B*	
17	37		1900W/27Ω	6SE6400-4BE21-8EA0	BZR1.9-27/1c3B*	
18	75		4200W/12Ω	6SE6400-4BE24-2FA0	BZR4.2-12/1c3	
19	(5) 7.5	DC650V	1.25kW/80Ω	6SE7018-DES87-2DA0	BZR1.25-80/1c3B*	
20	(10) 15		2.5kW/40Ω	6SE7021-6ES87-2DA0	BZR2.5-40/1c3B*	
21	(20) 30		5kW/20Ω	6SE7023-2EA87-2DA0	BZR5-20/1c3	
22	(50) 75		12.5kW/8Ω	6SE7028-0EA87-2DA0	BZR12.5-8/3c3	BZR12.5-8/2c3
23	(100) 150		25kW/4Ω	6SE7031-6EB87-2DA0	BZR25-4/5c3	BZR25-4/3c3
24	(170) 255		42.5kW/2.35Ω	6SE7032-7EB87-2DA0	BZR42.5-2.35/8c3	BZR42.5-2.35/4c3
25	(5) 7.5	DC810V	1250W/124Ω	6SE7016-4FS87-2DA0	BZR1.25-124/1c3	
26	(10) 15		2500W/62Ω	6SE7021-3FS87-2DA0	BZR2.5-62/1c3B*	
27	(50) 75		12.5kW/12.4Ω	6SE7028-4FA87-2DA0	BZR12.5-12.4/3c3	BZR12.5-12.4/2c3
28	(100) 150		25kW/6.2Ω	6SE7031-3FB87-2DA0	BZR25-6.2/5c3	BZR25-6.2/3c3
29	(200) 300		50kW/3.1Ω	6SE7032-5FB87-2DA0	BZR50-3.1/10c3	BZR50-3.1/5c3
30	(50) 75	DC930V	12.5kW/17.8Ω	6SE7025-3HA87-2DA0	BZR12.5-17.8/3c3	BZR12.5-17.8/2c3
31	(100) 300		50kW/4.45Ω	6SE7032-1HB87-2DA0	BZR50-4.45/10c3	BZR50-4.45/5c3

*注：表示外形尺寸为：440×375×180

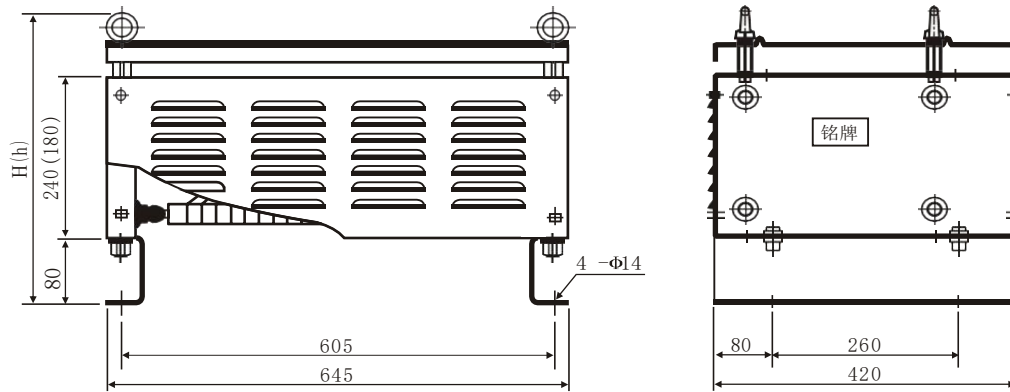
外形及安装尺寸

一、ZX16型不锈钢电阻器外形及安装尺寸1.

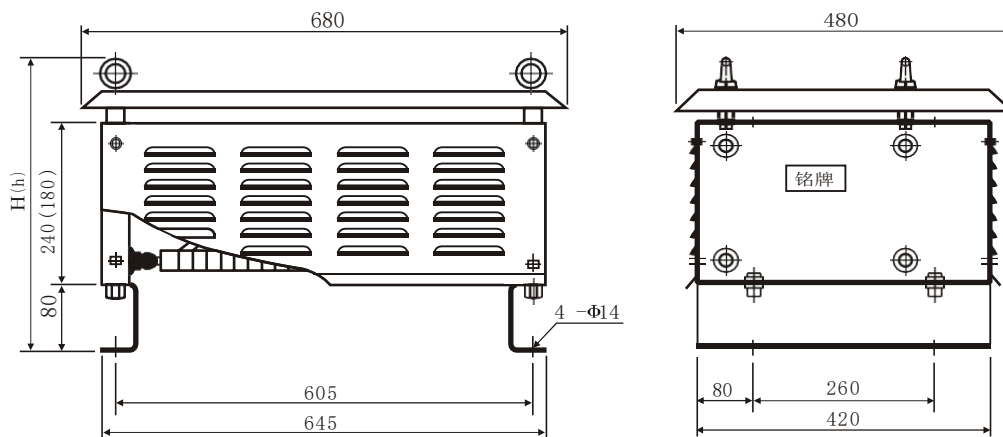
开启式



2. 户内防护式 (-X1)



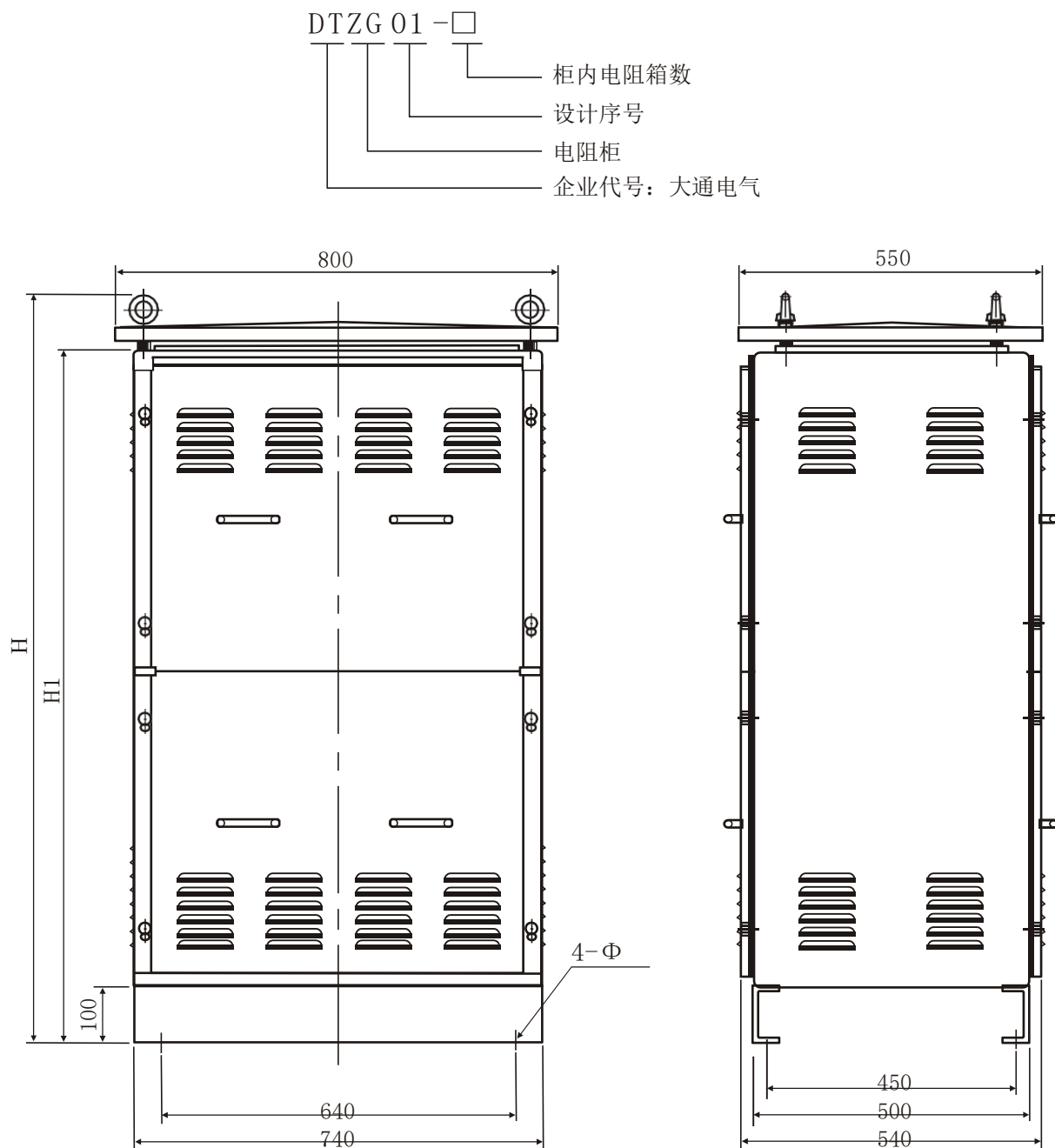
3. 户外防护式 (-X2)



NO	直叠箱数	H(mm)	重量(kg)	h(mm)	重量(kg)
1	1	425	27.5	365	22.5
2	2	665	47	545	37
3	3	905	66.5	725	51.5
4	4	1145	86	905	66

(图7-1)

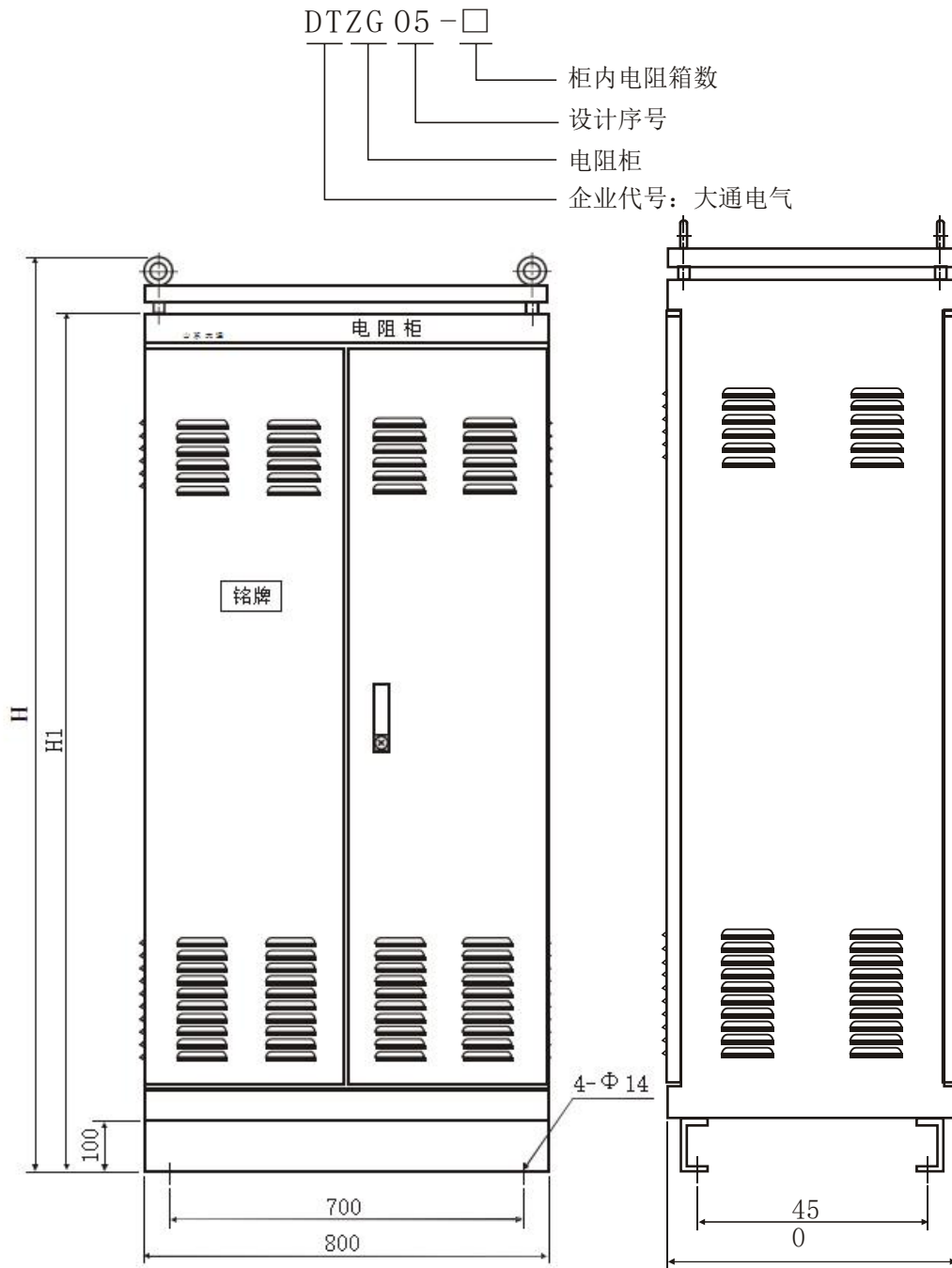
二、DTZG01系列电阻柜外形及安装尺寸



规格型号	柜内箱数	H1 (mm)	H (mm)	重量 (kg)
DTZG01 04	4	1325	1435	140
DTZG01 05	5	1565	1675	165
DTZG01 06	6	1805	1915	180

(图7-2)

三、DTZG05型电阻柜外形及安装尺寸



规格型号	柜内箱数	H1 (mm)	H (mm)	重量 (kg)
DTZG05-04	4	1345	1455	160
DTZG05-05	5	1590	1700	190
DTZG05-06	6	1835	1945	220

(图7-3)

附录1

标准型电阻器型号对照表

序号	ZX16系列不 锈钢电阻器	ZX1系列铸 铁电阻器	ZX2系列 康铜线绕电阻器	ZX9系列 铁铬铝电阻器	ZX10 (15) 系列 铁铬铝电阻器	ZX12系列 铁铬铝电阻器
1	ZX16-0.1	ZX1-1/5		ZX9-1/10	ZX10-5	ZX12-0.1
2	ZX16-0.14	ZX1-1/7		ZX9-1/14	ZX10-7	ZX12-0.14
3	ZX16-0.2	ZX1-1/10		ZX9-1/20	ZX10-10	ZX12-0.2
4	ZX16-0.28	ZX1-1/14		ZX9-1/28	ZX10-14	ZX12-0.28
5	ZX16-0.4	ZX1-1/20		ZX9-1/40	ZX10-20	ZX12-0.4
6	ZX16-0.56	ZX1-1/28		ZX9-1/55	ZX10-28	ZX12-0.56
7	ZX16-0.8	ZX1-1/40		ZX9-1/80	ZX10-40	ZX12-0.8
8	ZX16-1.1	ZX1-1/55		ZX9-1/110	ZX10-55	ZX12-1.1
9	ZX16-1.6	ZX1-1/80			ZX10-80	ZX12-1.6
10	ZX16-2.2	ZX1-1/110			ZX10-110	ZX12-2.2
11		ZX1-2/38		ZX9-1/152		
12		ZX1-2/54		ZX9-1/216		
13	ZX16-3	ZX1-2/75		ZX9-2/300	ZX10-75	ZX12-3
14	ZX16-4.2	ZX1-2/105		ZX9-2/420	ZX10-105	ZX12-4.2
15	ZX16-5.6	ZX1-2/140		ZX9-2/560	ZX10-140	ZX12-5.6
16	ZX16-8	ZX1-2/200		ZX9-2/800	ZX10-200	ZX12-8
17	ZX16-2		ZX2-1/0.2			
18	ZX16-2.5		ZX2-1/0.25			
19	ZX16-3.3		ZX2-1/0.33			
20	ZX16-4		ZX2-1/0.4			
21	ZX16-5		ZX2-1/0.5			
22	ZX16-6.6		ZX2-1/0.66			
23	ZX16-7		ZX2-2/0.7			
24	ZX16-9		ZX2-2/0.9			
25	ZX16-11		ZX2-2/1.1			
26	ZX16-14.5		ZX2-2/1.45			
27	ZX16-19.5		ZX2-2/1.95			
28	ZX16-28		ZX2-2/2.8			
29	ZX16-35		ZX2-2/3.5			
30	ZX16-44		ZX2-2/4.4			
31	ZX16-58		ZX2-2/5.8			
32	ZX16-80		ZX2-2/8			

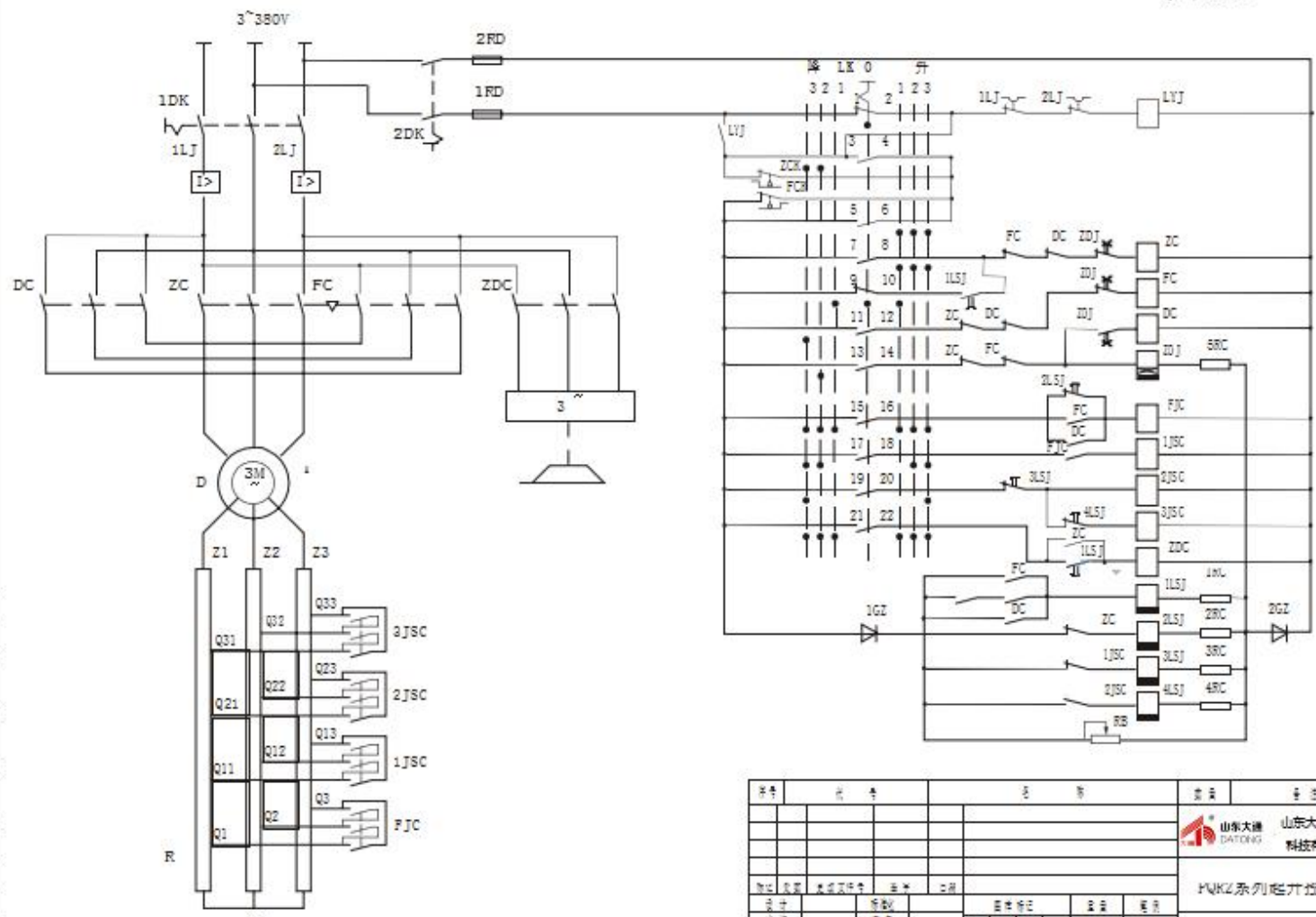
附录2


不同形式的电阻器性能对比

电阻器形式	ZX16系列	ZX1系列	ZX2系列	ZX9系列	ZX10(15)系列	ZX12系列
电阻元件材质	不锈钢	铸铁	康铜线(带)	铁铬铝带	铁铬铝带	铁铬铝带
电阻元件代号	c3	T	B	D	D或Y	J
额定功率(kW)	5.6	4.6	3.5	4.6	4.6	4.6
额定温升(K)	350	350	300	350	350	350
外形尺寸 (长×宽×高)	645×375×240	645×372×240	645×378×240	645×375×180	645×380×200	645×350×240
安装尺寸	605×260					

附录 3-1

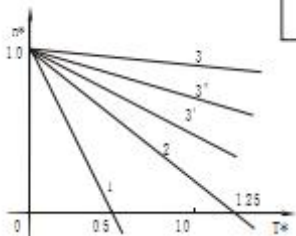
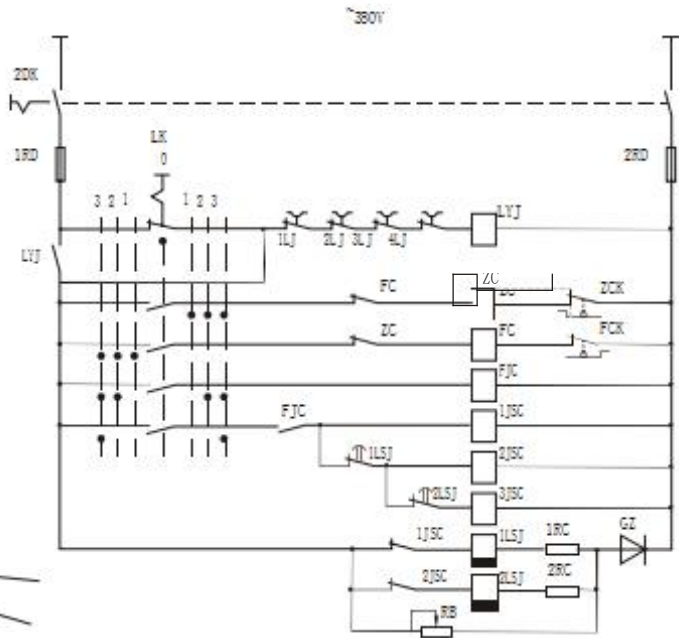
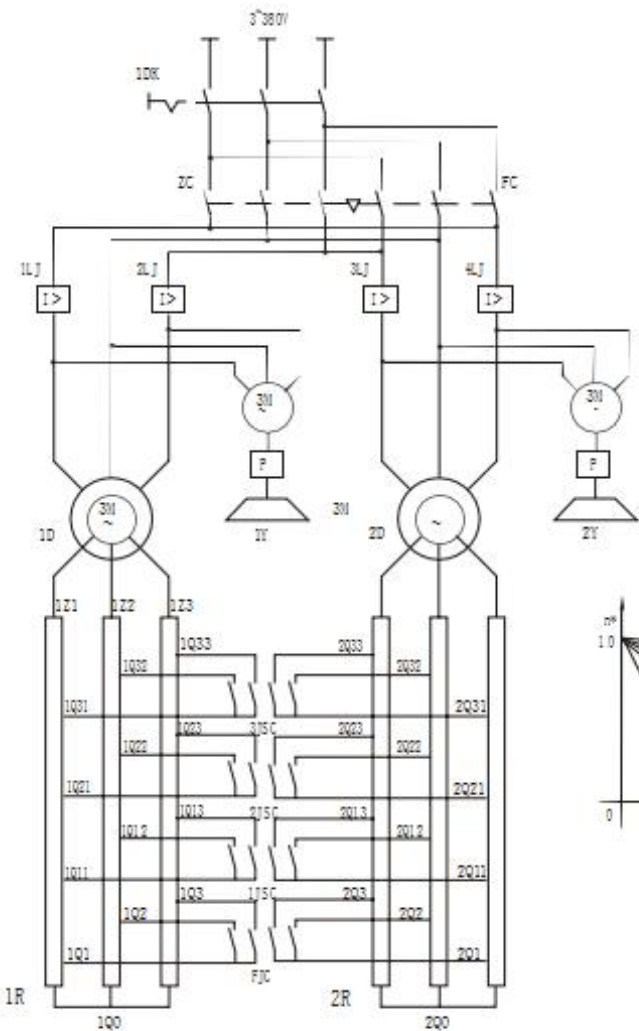
技术要求



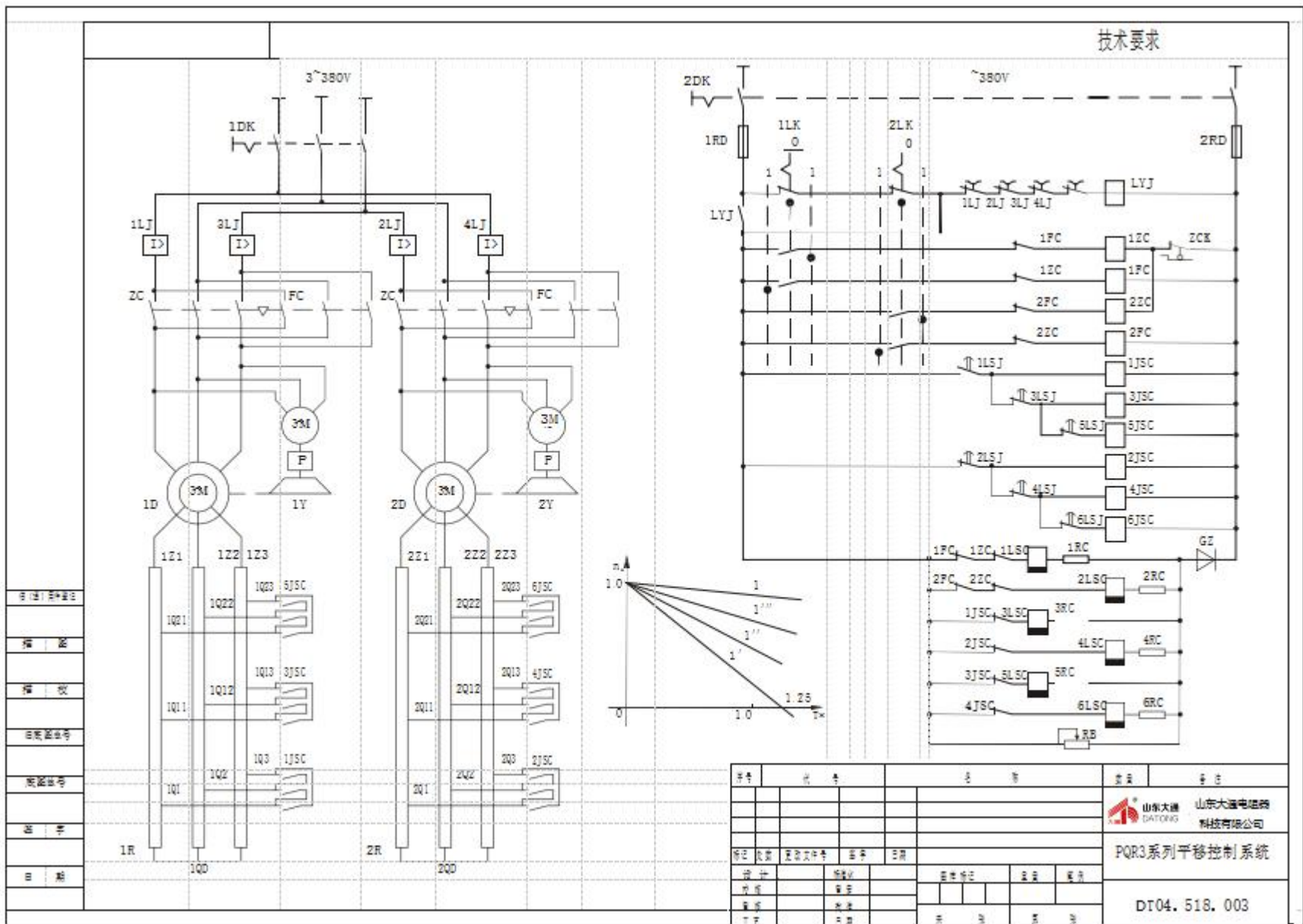
序号		代号		名称		数量	备注
							 山东大通 SDTONG 山东大通电阻器 科技有限公司
							FKW2系列开启式断路器
							DT04.518.001

附录3-2

技术要求



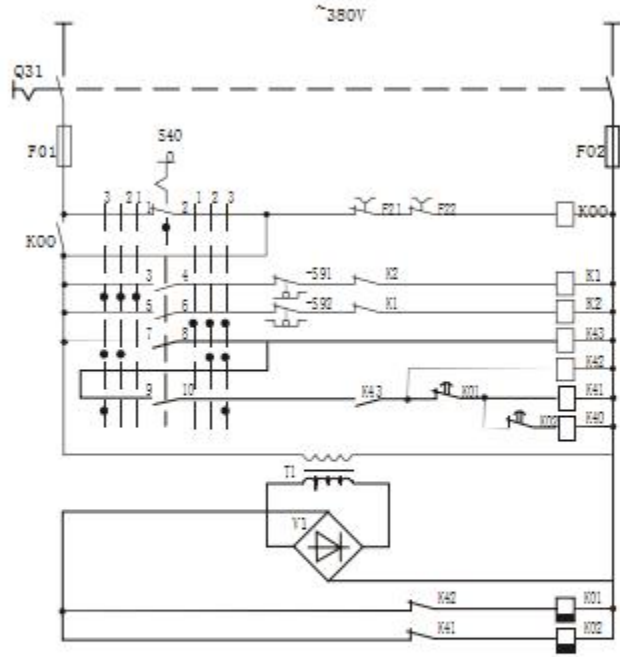
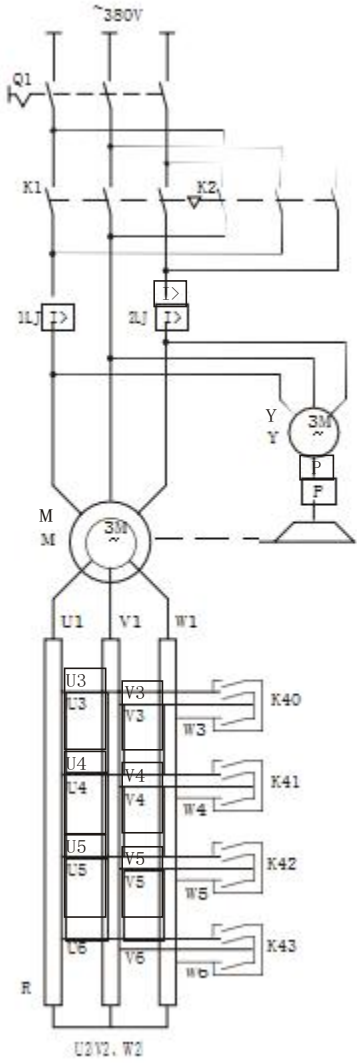
序号	代号	名称	数量	备注
设计	设计	日期	PQR3系列平移控制系统	
审核	审核	日期	DT04.518.003	
校对	校对	日期		
工艺	工艺	日期		



附录3-3

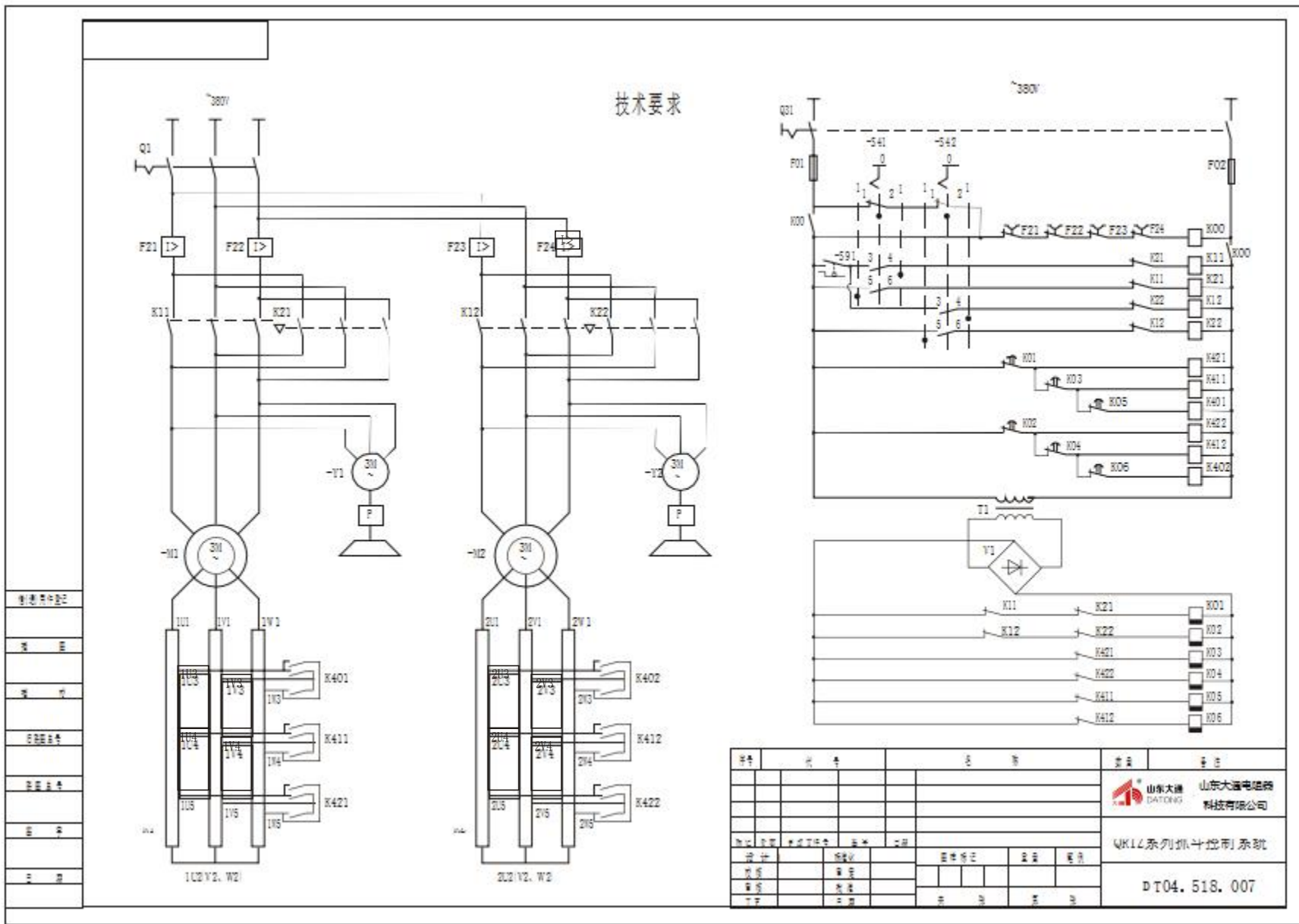
附录3-4

技术要求



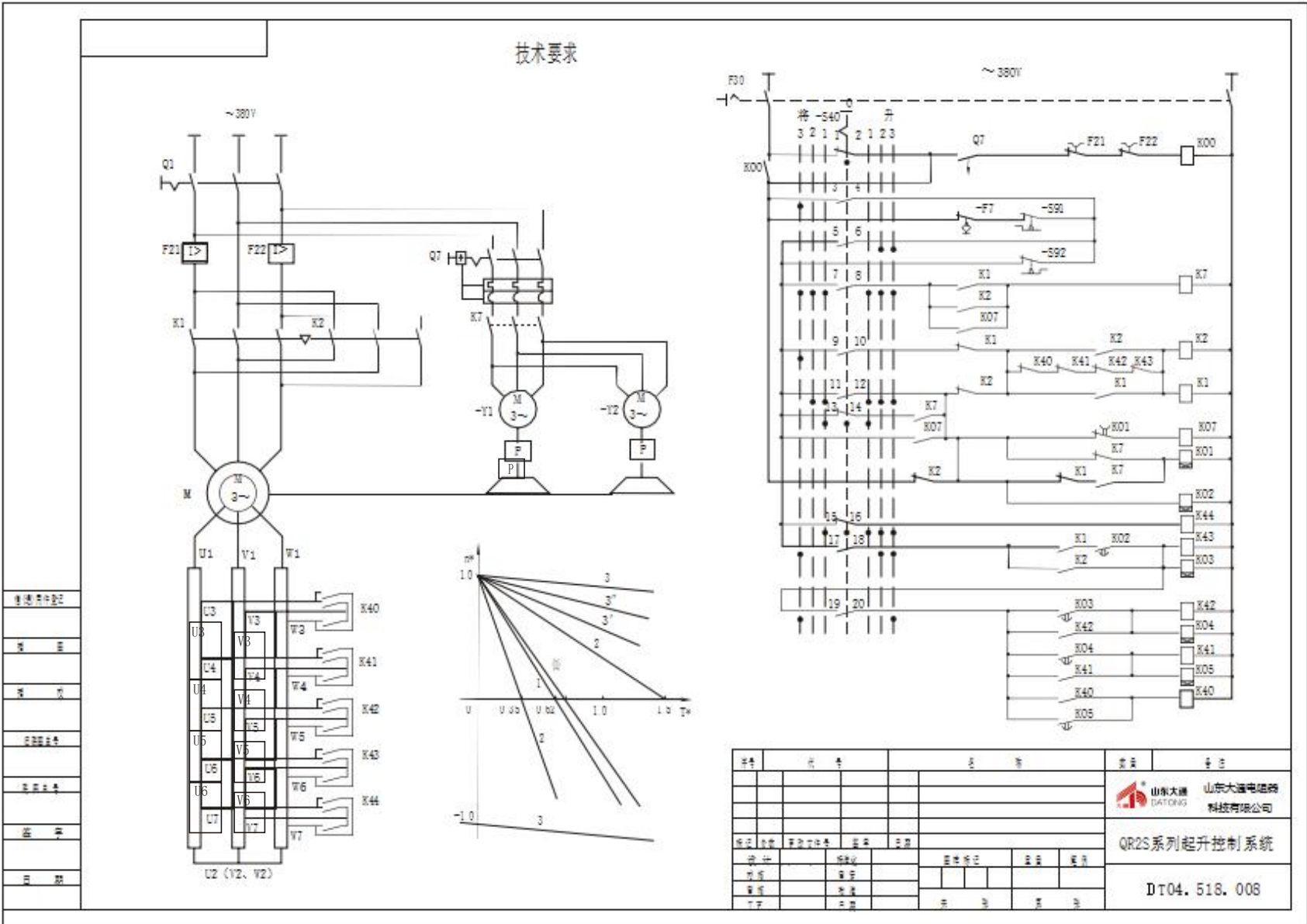
序号	代号	名称	数量	备注


山东大通
 DATONG
山东大通电阻器
 科技有限公司
 QR1Y系列平移控制系统
 DT04.518.006



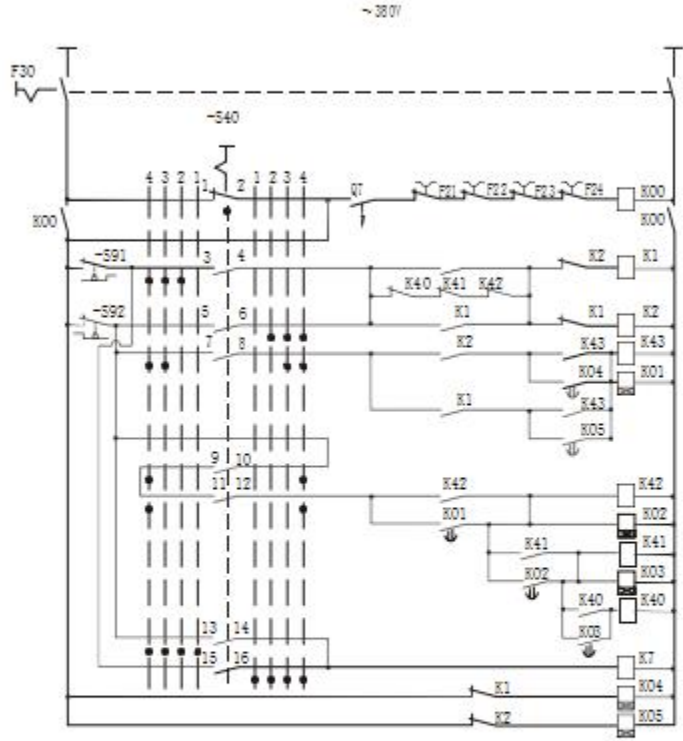
附录3-5

附录3-6

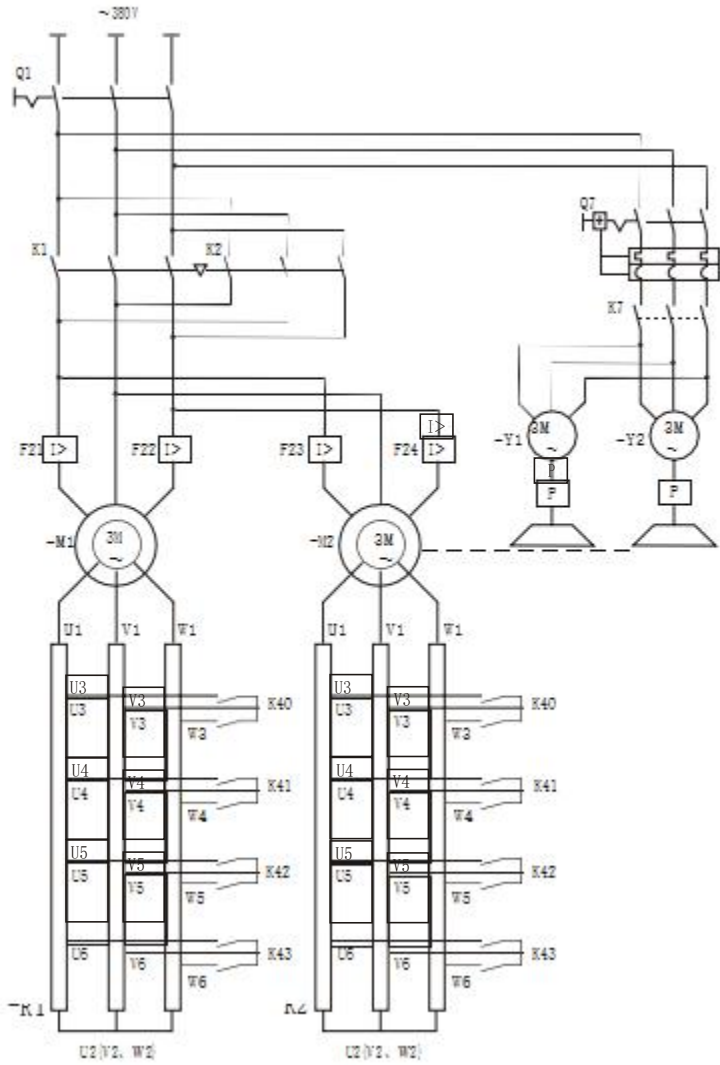


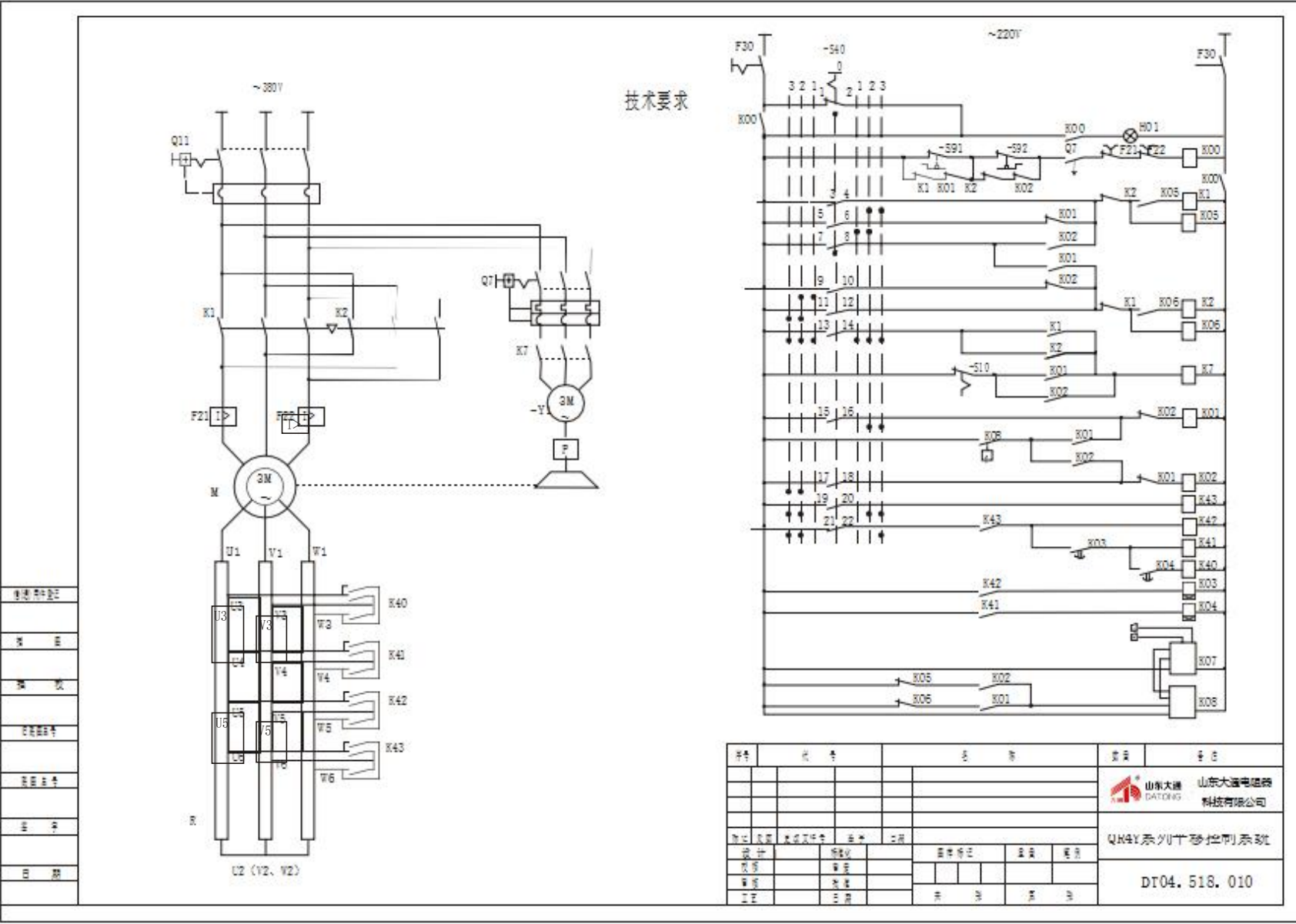
附录3-7

技术要求



序号	代号	名称	数量	备注
山东大通 山东大通电阻器 DATONG 科技有限公司				
QR6Y系列干式控制柜系列				
D+04.518.009				





附录3-9



ZX16加长型不锈钢电阻器



DTPR功率电阻



铝壳电阻



特制电阻

主要检测设备



温升试验台



100KV耐压试验仪



绝缘-耐压测试仪



直流数字电桥



山东大通电阻器科技有限公司
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电邮：webmaster@sdqy365.com
邮编：253700

DA TONG

