

XHV2(GV2)-ME　　XHV2(GV2)-M　　XHV2(GV2)-RS、LS、LE

适用范围 Application

XHV2 (GV2、GV3)系列电动机保护断路器、采用模块化设计、外形美观、体积小、断相保护、内置热继电器、功能性强、通用性好。

XHV2(GV2、GV3)系列电动机保护断路器适用于交流50/60Hz，额定工作电压至690V，电流0.1至80A的电路中，作为三相鼠笼型异步电动机的过载、断相、短路保护及不频繁地起动控制之用，可用作配电线路保护和不频繁的负载转换，还可作隔离器使用。

XHV2(GV2,GV3) series motor protection circuit breaker, uses the modular design, the contour is artistic, the volume is small, breaks protects, inside sets Hot Relay, the function is strong, the versatility is good.

XHV2(GV2,GV3) series motor protection circuit breaker are mainly used for the overload and short-circuit protection for motors in the circuit of AC50/60Hz, rated operating voltage up to 690V, rated operating current from 0.1A to 80A, as the full-voltage starters to start and cut off motors under the AC3 load, and for the circuit protection in the circuit of 0.1A-80A.

型号及其含义 The model no.and meaning

XH V 3 □□ 32 /□

- 脱扣器额定电流(A) the rated current of disjointer(A)
- 壳架等级额定电流(A) the grade rated current of case(A)
- E新型 New Type
- 开关操作型式① The operation means of switch
- 设计序号 Design number
- 设计模式 Design standard
- 公司代码 Company code

① M-按钮式P-旋钮式RS、RS、LS、LE扳健式

产品型号 Product model	额定电流 Rated current InA	热元件整定电流调节范围 The adjusting range commuting current for coponents A.	瞬时电磁脱扣电流整定值 The disjointing current commuting value in instant field InA	订货号 Order No.
GV2-M(ME)	0.16	0.1-0.16	1.5	XHV2-32(GV2)-M01C
	0.25	0.16-0.25	2.4	XHV2-32(GV2)-M02C
	0.4	0.25-0.4	5	XHV2-32(GV2)-M03C
	0.63	0.4-0.63	8	XHV2-32(GV2)-M04C
	1	0.63-1	13	XHV2-32(GV2)-M05C
	1.6	1-1.6	22.5	XHV2-32(GV2)-M06C
	2.5	1.6-2.5	33.5	XHV2-32(GV2)-M07C
	4	2.5-4	51	XHV2-32(GV2)-M08C
	6.3	4-6.3	78	XHV2-32(GV2)-M10C
	10	6-10	138	XHV2-32(GV2)-M14C
	14	9-14	170	XHV2-32(GV2)-M16C
	18	13-18	223	XHV2-32(GV2)-M20C
	23	17-23	327	XHV2-32(GV2)-M21C
	25	20-25	327	XHV2-32(GV2)-M22C
	32	24-32	416	XHV2-32(GV2)-M32C

XHV2(GV2)电动机保护断路器
XHV2(GV2)Motor protection circuit breaker



XHV2(GV2)-PM　　XHV2(GV2)-MC02　　XHV2(GV2)-MC01

XHV2(GV2)电动机保护断路器 Motor protection circuit breaker　　表 Table 1

XHV2(GV2)-M(ME)(P)		XHV2(GV2)-RS		XHV2(GV2)-PM	
M01C	0.1-0.16	RS01C	0.1-0.16	PM01C	0.1-0.16
M02C	0.16-0.25	RS02C	0.16-0.25	PM02C	0.16-0.25
M03C	0.25-0.40	RS03C	0.25-0.40	PM03C	0.25-0.40
M04C	0.40-0.63	RS04C	0.40-0.63	PM04C	0.40-0.63
M05C	0.63-1	RS05C	0.63-1	PM05C	0.63-1
M06C	1-1.6	RS06C	1-1.6	PM06C	1-1.6
M07C	1.6-2.5	RS07C	1.6-2.5	PM07C	1.6-2.5
M08C	2.5-4	RS08C	2.5-4	PM08C	2.5-4
M10C	4-6.3	RS10C	4-6.3	PM10C	4-6.3
M14C	6-10	RS14C	6-10	PM14C	6-10
M16C	9-14	RS16C	9-14	PM16C	9-14
M18C	10-16	RS18C	10-16	PM18C	10-16
M20C	13-18	RS20C	13-18	PM20C	13-18
M21C	17-23	RS21C	17-23	PM21C	17-23
M22C	20-25	RS22C	20-25	PM22C	20-25
M32C	24-32	RS32C	24-32	PM32C	24-32

3.1 断路器(GV2电动机保护断路器)所控制三相电动机额定功率
The rated power of three-phase electromotor controlled by breaker(GV2 Motor protection circuit breaker)　　表 Table 2

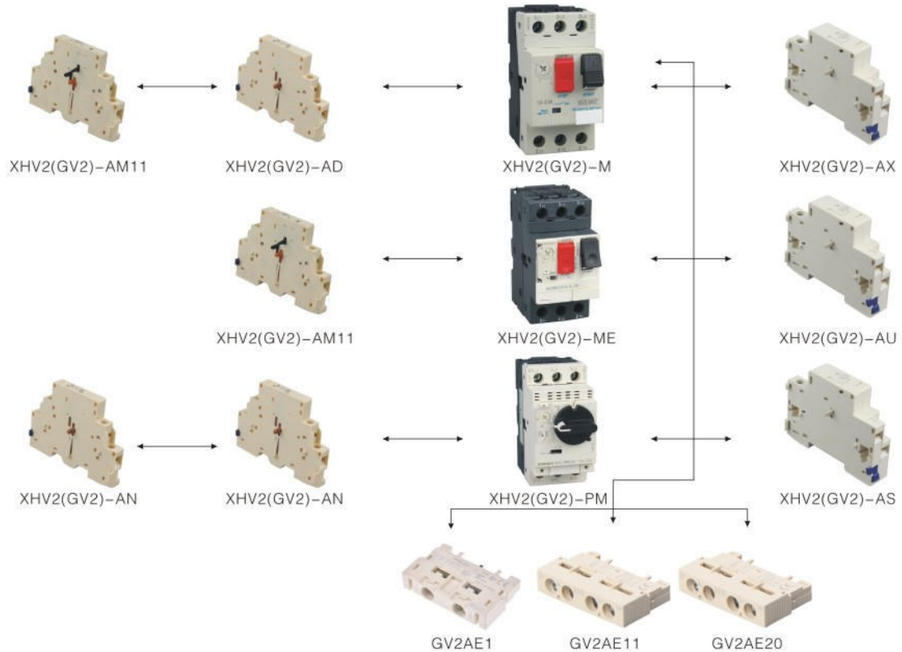
额定电流调节范围 the adjusting range of rated current ie (A)	三相电动机标准额定功率kW AC-3, 50Hz/60Hz The standard power of three-phase electromotor KW. AC-3, 50Hz/60Hz					
	230/240V	400V	415V	440V	500V	690V
0.1-0.16	–	–	–	–	–	–
0.16-0.25	–	–	–	–	–	–
0.25-0.40	–	–	–	–	–	–
0.4-0.63	–	–	–	–	–	0.37
0.63-1	–	–	–	0.37	0.37	0.55
1-1.6	–	0.37	–	0.55	0.75	1.1
1.6-2.5	0.37	0.75	0.75	1.1	1.1	1.5
2.5-4	0.75	1.5	1.5	1.5	2.2	3
4-6.3	1.1	2.2	2.2	3	3.7	4
6-10	2.2	4	4	4	5.5	7.5
9-14	3	5.5	5.5	7.5	7.5	9
13-18	4	7.5	9	9	9	11
17-23	5.5	11	11	11	11	15
20-25	5.5	11	11	11	15	18.5
24-32	7.5	15	15	15	18.5	23

3.2 断路器瞬时电磁脱扣电流整定值(见表3)
The disjointing current commuting value of breaker in instant magnetic field.(Refer to table 3)　　表 Table 3

额定电流 Rated current InA	热元件整定电流调节范围 The adjusting range commuting current for coponents A.	瞬时电磁脱扣电流整定值 The disjointing current commuting value in instant field InA
0.16	0.1-0.16	1.5
0.25	0.16-0.25	2.4
0.4	0.25-0.4	5
0.63	0.4-0.63	8
1	0.63-1	13
1.6	1-1.6	22.5
2.5	1.6-2.5	33.5
4	2.5-4	51
6.3	4-6.3	78
10	6-10	138
14	9-14	170
18	13-18	223
23	17-23	327
25	20-25	327
32	24-32	416

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附件(见表4) Accessories (refer to table 4)



4.1 附加触头 Contacts of accessories　　表 Table 4

附件名称 Names of accessories	代号 Code	触头类型 the types of contacts		安装位置 installation place
瞬时辅助触头 Instantaneous auxiliary contacts	AE1	1常开或常闭 1NO/1NC		断路器前面 (按装数 1 PCS) The front of breaker (1 PCS can be installed)
	AE11	1常开1常闭 1NO+1NC		
	AE20	2常开 2NO		
	AN11	1常开1常闭 1NO+1NC		断路器左侧 (共可按装4PCS) the left of breaker (4PCS can be installed)
	AN20	2常开 2NO		
故障信号触头 fault signal contacts + 瞬时辅助触头 Instantaneous auxiliary contacts	AD1010	常开(故障) Constant-open trouble	常开NO	
	AD1001		常闭NC	
	AD0110	常闭(故障) Constant-closed trouble	常开NO	
	AD0101		常闭NC	
短路信号触头 Short circuit contacts	AM11	1常开、1常闭 1NO、1NC		

4.2 电脱扣 Electricdisjointing　　表 Table 5

附件名称 Names of accessories	代号 Code	电压(V) Voltage	安装位置 installation place
欠压脱扣 Lack-voltage disjointing	AU115	110-127V 50Hz	断路器右侧 (共可按装1 PCS) The right of breaker (1 PCS can be installed)
	AU225	220-240V 50Hz	
	AU385	380-415V 50Hz	
分励脱扣 Division disjointing	AS115	110-127V 50Hz	
	AS225	220-240V 50Hz	
	AS385	380-415V 50Hz	
用于危险机器的欠压脱扣 Be used to the release of low voltage	AX115	110-127V 50Hz	
	AX225	220-240V 50Hz	
	AX385	380-415V 50Hz	

4.3 断路器的防护外壳 The protective case of breaker　　表 Table 6

附件名称 Names of accessories	外壳防护等级 The protection grade of case	代号 Code	备注 Memo
表面安装外壳 External installation shell	I P41	MC 01	
	I P55	MC 02	
	I P65	MC 03	

外形安装尺寸 The external fixing dimension

5.1 断路器（GV2电动机保护断路器）外形及安装尺寸(见图2、见图3);
The outline and fixing dimension of breaker (GV2 Motor protection circuit breaker)(refer to chart2，3)

5.2 断路器（GV2电动机保护断路器）采用标准导轨安装，其导轨应符合JB6525的A2.1 TH35-7.5型安装导轨要求。
The breaker (GV2 Motor protection circuit breaker) adopts the standard conductor rail installation, the conductor rail should meet the A2.1 TH35-7.5 type installation standard of JB6525.

5.3 断路器（GV2电动机保护断路器）附件的外形安装尺寸(见图1、见图4);
The external installation dimension of GV2 Motor protection circuit breaker (refer to chart 1,4)

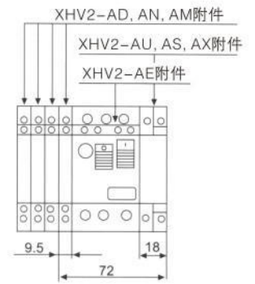
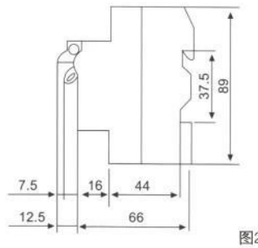


图1 XHV2-AN…,AD…, AM…
XHV2-AU…, AS…,AX…
XHV2-AE…



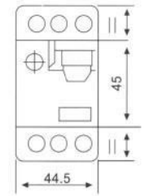


图2 XHV2-RS、LS
(GV2-RS、LS)

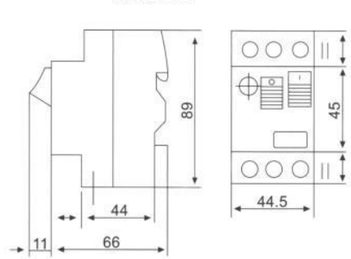


图 3 XHV2-M (GV2-M)

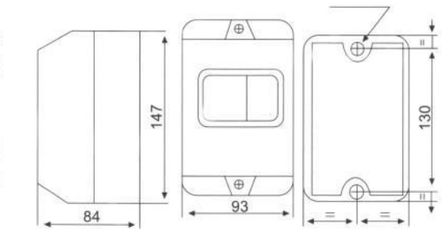


图4 XHV2-MC(GV2 -MC)

4.12脱扣特性曲线（见图5）
20℃下，根据整定电流的倍数确定平均工作时间
The characteristic curve of disjointing (refer to chart 5) the average work time according to the multiple of commuting current

X倍整定电流 X Setting current
(1)从冷态开始，3极 Begin with cold state, 3 poles
(2)从冷态开始，2极 Begin with cold state, 2 poles
(3)从热态开始，3极 Begin with hot state, 3 poles

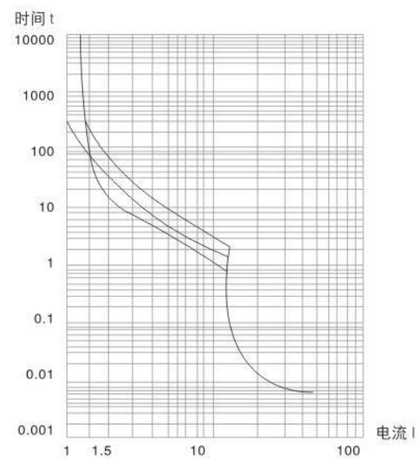


图5 XHV2的热磁脱扣曲线
The hot magnetic disjointing curve of XHV2

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主要技术参数 Main technical parameters

1、额定绝缘电压 Rated insulation voltage Ui(V): 690；
2、额定工作电压 Rated work voltage Ue(V): 230/240、400/415、440、550、690；
3、额定频率 Rated frequency Hz: 50/60；
4、壳架等级额定电流 The grade rated current of shell Inm(A): 32；
5、脱扣器额定电压 The rated voltage of disjointer In(A)(见表 1)；
6、整定电流调节范围 The adjusting range of commuting current (A)(见表 1)；
7、整定极限短路分断能力 The cutting capacity for rated limit short circuit Icu(kA)(见表 7)；
8、额定运行短路分断能力 The cutting capacity for rated work short circuit Ics(kA)(见表 7)；
9、额定冲击耐受电压 The bearable voltage for rated shock Uimp(V):8000。

过电流动作保护特性 The characteristic of over-current action protection

表 Table 7

额定电流 Rated current In(A)	整定电流调节范围 Adjusting rage of commuting current	额定极限短路分断能力 ICU，额定运行短路分断能力 ICS The cutting capacity for rated limit short circuit Icu, the cutting capacity for rated work short circuit Ics										飞弧距离 The distance of arcs (mm)
		230/240V		400/415V		440V		500V		690V		
		Icu(kA)	Ics(kA)	Icu(kA)	Ics(kA)	Icu(kA)	Ics(kA)	Icu(kA)	Ics(kA)	Icu(kA)	Ics(kA)	
0.16	0.10-0.16	100	100	100	100	100	100	100	100	100	100	40
0.25	0.16-0.25	100	100	100	100	100	100	100	100	100	100	40
0.4	0.25-0.4	100	100	100	100	100	100	100	100	100	100	40
0.63	0.4-0.63	100	100	100	100	100	100	100	100	100	100	40
1	0.63-1	100	100	100	100	100	100	100	100	100	100	40
1.6	1-1.6	100	100	100	100	100	100	100	100	100	100	40
2.5	1.6-2.5	100	100	100	100	100	100	100	100	3	2.25	40
4	2.5-4	100	100	100	100	100	100	100	100	3	2.25	40
6.3	4-6.3	100	100	100	100	50	50	50	50	3	2.25	40
10	6-10	100	100	100	100	15	15	10	10	3	2.25	40
14	9-14	100	100	15	7.5	8	4	6	4.5	3	2.25	40
18	13-18	100	100	15	7.5	8	4	6	4.5	3	2.25	40
23	17-23	50	50	15	6	6	3	4	3	3	2.25	40
25	20-25	50	50	15	6	6	3	4	3	3	2.25	40
32	24-32	50	50	10	5	6	3	4	3	3	2.25	40

1、断路器(GV2电动机保护断路器)各相负载平衡时的动作特性
The action characteristic of breaker(GV2 Motor protection circuit breaker) when every phase load is in balance

表 Table 8

额定电流倍数 The multiple of rated current	起始状态 Starting state	规定时间 Stipulated time	预期结果 Due result	周围空气温度 The temperature of ambient air
1.05	冷态 Cold state	t≥2h	不脱扣 No disjointing	+40℃ ±2℃
1.2	热态(紧接序1试验后升至规定电流) Hot state (rises up to the stipulated current after following the test of No 1)	t<2h	脱扣 Disjointing	
1.5	1倍整定电流热平衡后开始 One-time commuting current Starts after the bot balance	t< 2min	脱扣 Disjointing	
7.2	冷态 Cold state	2<t≤10s	脱扣 Disjointing	

2、断路器(GV2电动机保护断路器)各相负载平衡时(断相)的动作特性
The action characteristic of breaker(GV2 Motor protection circuit breaker) when every phase load is in balance (phase-broken)

表 Table 9

额定电流倍数 The multiple of rated current		起始状态 Starting state	规定时间 Stipulated time	预期结果 Due result	周围空气温度 The temperature of ambient air
任意二相 Any two phases	第三相 The third phases				
1.0	0.9	冷态 Cold state	t≤2h	不脱扣 No disjointing	+40℃ ±2℃
1.15	0	热态(紧接序1试验后升至规定电流) Hot state (rises up to the stipulated current after following the test of No 1)	t<2h	脱扣 Disjointing	



XHV3(GV3)-M　　XHV3(GV3)-ME　　XHV3(GV1/GV3)-A01、A02

适用范围 Application

XHV3断路器(GV3塑壳式断路器)适用于交流电压至690V，电流1至80A的电路中，作为三相鼠笼型异步电动机的过载、断相、短路保护及不频繁的起动控制之用，可用作配电线路保护和不频繁的负载转换，还可作隔离器使用。

The XHV3 circuit breaker (GV3 moulded case circuit breaker) is suitable for the alternating voltage to 690V, the electric current 1A to in the 80A electric circuit, takes three phase mouse cage asynchronous electric motor overload, breaks, short-circuits protection and not frequent starting control uses, may serve as the distribution line protection and the not frequent, load transformation, but also may do Isolates the use.

型号及其含义 The model and meaning

XH V 3 □ -80 / □

- 脱扣器额定电流(A) the rated current of disjointer (A)
- 壳架等级额定电流(A) the grade rated current of case(A)
- 开关操作型式 The operation means of switch ①
- 设计序号 Design No.
- 设计模式 Design standard
- 公司代码 Company code

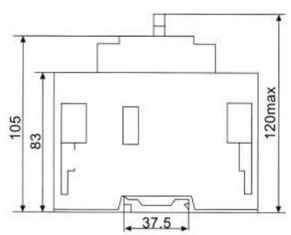
①M-按钮式 Moulded case ②ME-新型 new type

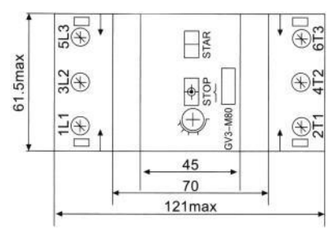
产品型号 Product model	额定电流 (A) Rated current	电动机输出功率 Motor output(kW)	额定电流范围 Setting Range(A)		订货号 Order No.
			热过载脱扣器 Thermal overload releases	瞬时过电流脱扣器 Instantaneous overcurrent releases	
GV3-M(ME)	2.5	0.75	1.6-2.5	30	XHV3-80(GV3)-M07
	4	1.1/1.5	2.5-4	48	XHV3-80(GV3)-M08
	6	2.2	4-6	72	XHV3-80(GV3)-M10
	10	3/4	6-10	120	XHV3-80(GV3)-M14
	16	5.5/7.5	10-16	190	XHV3-80(GV3)-M20
	20	7.5/10	16-20	240	XHV3-80(GV3)-M21
	25	11	20-25	300	XHV3-80(GV3)-M25
	40	18.5	25-40	480	XHV3-80(GV3)-M40
	63	28	40-63	720	XHV3-80(GV3)-M63
	80	32	56-80	960	XHV3-80(GV3)-M80

XHV3(GV3)-M附件

附件名称 Names of accessories	代号 Code	触头类型 the type of comtacts	安装位置 installation place	备注 Memo
瞬时辅助触头 Instantaneous auxiliary contacts	A01	1常开 1常闭 1NO+1NC	断路器右侧(按装数 1 PCS) The right of breaker	
	A02	2常开 2NO		

外形安装尺寸 The external fixing dimension







适用范围 Application

DZS7系列断路器引进西门子公司新一发设计的，替代DZ108(3VE)系列的具有九十年代水平的新型断路器，该系列产品由DZS7-25(3VU13)和DZS7-63(3VU16)组成，它适用于交流50Hz(60Hz)，额定绝缘电压750V，额定工作电压690V，额定工作电流0.1 A-63A，用于电动机过载保护，短路保护及断相保护，也可用为直接起动和分断电动机的全压起动器，和额定电流由0.1-63A电路作为线路保护。

The DZS7 series circuit breaker introduces the SIEMENS company new round design, substitutes DZ108(3VE) the series haff the 90's horizontal new circuit breakers, this series product DZS7-25 (3VU13) and DZS7-63 (3VU16) is composed by it is suitable to exchanges 50Hz (60Hz), fixed insulation electricity 750V, fixed working voltage 690V, fixed operation current 0.1A-63A, uses in the electric motor Overloads Protects, short-circuits the protection and breaks protects, also may take Direct Starts and the minute power failure motive entire pressure Starts, protects with the nominal current by the 0.1A-63A electric circuit as the line.

型号及其含义 The model and meaning

DZS 7 - □ □

- 脱扣器额定电流 The rated current of release(A)
- 壳架等级额定电流 The grade rated current of shell(A)
- 设计序号 Design code
- 塑壳式断路器 MCCB

主要技术参数 Main technical parameters

DZS7-25(3VU13)

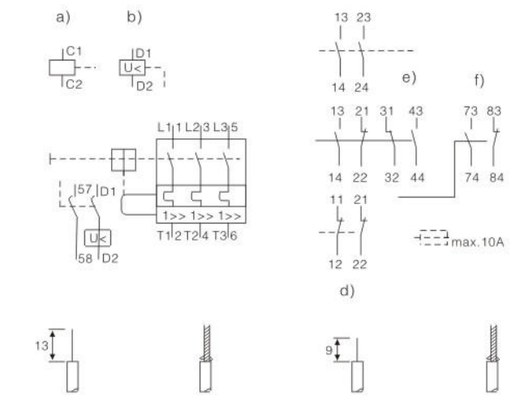
产品型号 Product model	额定电流(A) Rated Current(A)	电动机输出功率 Electromotor output power	整定电流范围 Commuting current range		定货号 Order No.
			热过载脱扣器 thermal overloading disjointer	瞬时过电流脱扣器 Instantaneous over current disjointer	
DZS7-25 (3VU13)	A	kW	A	A	
	0.16		0.1-0.16	1.9	DZS7-25-1MB00
	0.24	0.06	0.16-0.24	2.9	DZS7-25-1MC00
	0.4	0.09/0.12	0.24-0.4	4.8	DZS7-25-1MD00
	0.6	0.12/0.18	0.4-0.6	7.2	DZS7-25-1ME00
	1	0.25	0.6-1	12	DZS7-25-1MF00
	1.6	0.37/0.55	1-1.6	19	DZS7-25-1MG00
	2.4	0.75	1.6-2.4	29	DZS7-25-1MH00
	3.2	1.1	2-3.2	38	DZS7-25-1NH00
	4	1.1/1.5	2.4-4	48	DZS7-25-1MJ00
	5	1.5/2.2	3.2-5	60	DZS7-25-1NJ00
	6	2.2	4-6	72	DZS7-25-1MK00
	8	3	5-8	96	DZS7-25-1NK00
	10	3/4	6-10	120	DZS7-25-1ML00
	13	4/5.5	8-13	156	DZS7-25-1NL00
	16	7.5	10-16	190	DZS7-25-1MM00
	20	7.5	14-20	240	DZS7-25-1MN00
	25	11	18-25	300	DZS7-25-1MP00

主要技术参数 Main technical parameters

DZS7-63(3VU16)

产品型号 Product model	额定电流(A) Rated Current(A)	电动机输出功率 Electromotor output power	整定电流范围 Commuting current range		定货号 Order No.
			热过载脱扣器 thermal overloading disjointer	瞬时过电流脱扣器 Instantaneous over current disjointer	
DZS7-63 (3VU16)	A	kW	A	A	
	1.6	0.37/0.55	1-1.6	19	DZS7-63-1MG00
	2.4	0.75	1.6-2.4	29	DZS7-63-1MH00
	4	1.1/1.5	2.4-4	48	DZS7-63-1MJ00
	6	2.2	4-6	72	DZS7-63-1MK00
	10	34	6-10	120	DZS7-63-1ML00
	16	5.5/7.5	10-16	190	DZS7-63-1MM00
	25	11	16-25	300	DZS7-63-1MN00
	32	15	22-32	380	DZS7-63-1MP00
	40	18.5	28-40	480	DZS7-63-1MQ00
	52	22	36-52	600	DZS7-63-1MR00
	63		45-63	600	DZS7-63-1MS00

接线规格及示意图 Equipment Circuit Diagrams



a) 分励脱扣器
Shunt Release

b) 欠压脱扣器
Under voltage release

c) 带超前辅助触头的欠压脱扣器
Under voltage with leading anxiliary contacts

d) 辅助触头
Auxiliary contacts

e) 外加辅助触头
Addxiliary contacts

f) 短路故障显示器
Short-circuit indicator swich

2 × (1...6mm²)	2 × (1...4mm²)	2 × (0.5...2.5mm²)	2 × (0.5...1.5mm²)
2 × AWG 18 to 10	2 × AWG 18 to 12	2 × AWG 18 to 14	2 × AWG 18 to 16
1 × AWG 8			
Φ4...6mm			
	1 × 1.5Nm	1 × 1.3Nm	
	9to 13 LB.IN	910 11 LB.IN	

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DZ108-20(3VE1) DZ108(3VE1) DZ108-32(3VE3) DZ108-63(3VE4)

适用范围 Application

DZ108(3VE)系列塑料外壳式断路器，采用德国先进的低压断路器技术。符合GB1497-85，GD998-82，IEC157-1，IEC292-1，VDE0660，GB14048.2-14048等标准。仿德国西门子公司3VE系列断路器，是国内DZ5-20，DZ5-50，DZ15-60型断路器换代产品。本断路器适用于交流电压至660V，频率为40至60Hz，额定电流0.1至63A的电路中对AC3负载下电动机、配电线路或其他电气设备、实行不频繁的通、断操作、并进行过载、短路保护。

DZ108(3VE) the series plastic outer covering type circuit breaker, uses the German advanced lowpressure circuit breaker technology. Conforms to GB1497-85, GD998-82, IEC157-1, IEC 292-1, VDE0660, standard and so on GB1404.8-14048, Imitates German SIEMENS the company 3VE series circuit breaker, is domestic DZ5-20, DZ5-50, the DZ15-60 circuit breaker update product. This circuit breaker is suitable for the alternating voltage to 660V, the frequency is 40 to 60Hz, the nominal current 0.1 to 63 peaceful electric circuits in to the AC3 load under the electric motor, the distribution line or other electrical equipments, the implementation not frequent passes, breaks the operation, and carries on the overload, short-circuits the Protection.

主要技术参数 Main technical parameters

型号 Type	额定电流 Rated current (A)	热延时脱扣器电流整定范围 The fixed current range of hot timedelayed release (A)	电磁瞬时脱扣器电流整定值 Choices of auxiliary contacts (A)	订货号 Order No.	辅助触头选择情况 Choices of auxiliary contacts
DZ108-20 (3VE1)	0.16	0.1-0.16	1.9	DZ108-20-2BU00	1005 不带辅助触头 without auxiliary contacts
	0.25	0.16-0.25	3	DZ108-20-2CU00	
	0.4	0.25-0.4	4.8	DZ108-20-2DU00	
	0.63	0.4-0.63	7.5	DZ108-20-2EU00	
	1	0.63-1	12	DZ108-20-2FU00	1015 1NO+1NC
	1.6	1-1.6	19.2	DZ108-20-2GU00	
	2.5	1.6-2.5	30	DZ108-20-2HU00	
	3.2	2-3.2	38	DZ108-20-8HU00	
	4	2.5-4	48	DZ108-20-2JU00	1025 2NO
	5	3.2-5	60	DZ108-20-8JU00	
	6.3	4-6.3	75	DZ108-20-2KU00	
	8	5-8	96	DZ108-20-8KU00	
	10	6.3-10	120	DZ108-20-2LU00	1035 2NC
	12	8-12.5	150	DZ108-20-8LU00	
	16	10-16	192	DZ108-20-2MU00	
	20	14-20	210	DZ108-20-2NU00	
DZ108-32 (3VE3)	1.6	1-1.6	19	DZ108-32-2GA00	Special Order
	2.5	1.6-2.5	30	DZ108-32-2HA00	
	4	2.5-4	48	DZ108-32-2JA00	
	6.3	4-6.3	75	DZ108-32-2KA00	
	10	6.3-10	120	DZ108-32-2LA00	
	12.5	8-12.5	150	DZ108-32-8LA00	
	16	10-16	192	DZ108-32-2MA00	
	20	12.5-20	240	DZ108-32-8MA00	
	25	16-26	300	DZ108-32-2NA00	
	32	22-32	380	DZ108-32-2PA00	
DZ108-63 (3VE4)	10	6.3-10	120	DZ108-63-0CL00	Special Order
	16	10-16	192	DZ108-63-0CM00	
	25	16-25	300	DZ108-63-0CP00	
	32	22-32	380	DZ108-63-0CQ00	
	40	28-40	480	DZ108-63-0CR00	
	50	36-50	600	DZ108-63-0CS00	
	63	45-63	700	DZ108-63-0CT00	



DZS8-12(3RV1011) DZS8-25(3RV1021) DZS8(3RV1901)

适用范围 Application

DZS8(3RV)系列电动机保护断路器(马达保护开关)适用于交流50/60Hz，额定工作电压至660V，额定电流0.11A-25A的电路中，作为三相感应电机的起动和断开及缺相，过载和短路保护，也可用于配电线路保护，还可作隔离器使用。

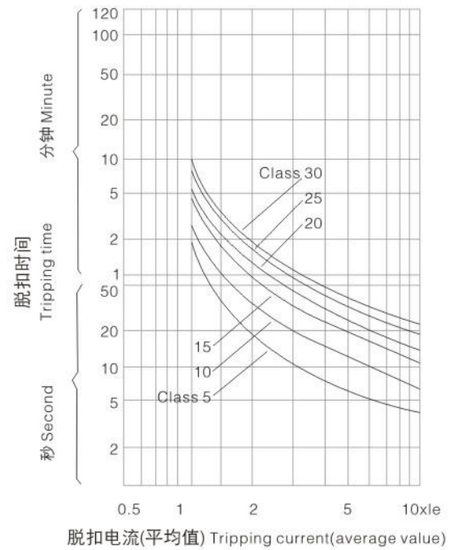
DZS8(3RV) series circuit breakers are mainly used for the overload, short-circuit and phase -failure protection for motors in the circuit of AC 50/60Hz, rated operating voltage up to 660V, rated operating current from 0.11A to 25A. They can be also used for circuit protection in the circuit of 0.11A-25A.

型号及其含义 The model and meaning

DZS 8 □ - □ □

- 脱扣器额定电流 The rated current of disjointer (A)
- 壳架等级额定电流 The grade rated current of shell (A)
- 开关操动型式 The operation means of switch
- 设计序号 Design code
- 塑壳式断路器 MCCB

技术参数 Specifications



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技术参数 Specifications

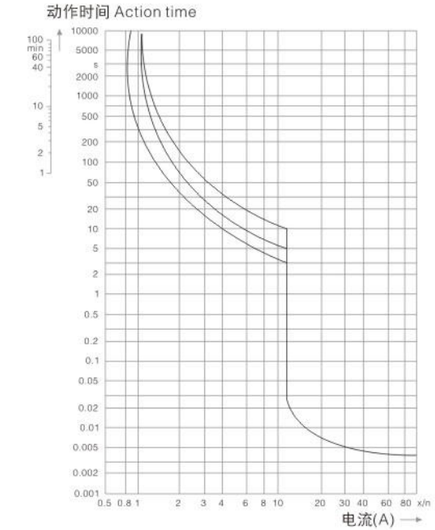
额定电流 Rated Current (A)	适用于三相交流电动机[1] Pn Applicable three-phase AC electromotor[1] Pn	热过载脱扣器 thermal overloading disjointer	瞬时过电流脱扣器 Instantaneous over current disjointer	交流400V条件下的短路分断能力 Short circuit and beraking capacity under the condition of AC 400V	断路器最大额定电流至25A The maximum rated current of the breaker to 25A
A	kW	A	A	kA	Order number
0.16	0.04	0.11–0.16	2.1	100	3RV1011–0AA10
0.2	0.06	0.14–0.2	2.6	100	3RV1011–0BA10
0.25	0.06	0.18–0.25	3.3	100	3RV1011–0CA10
0.32	0.09	0.22–0.32	4.2	100	3RV1011–0DA10
0.4	0.09	0.28–0.4	5.2	100	3RV1011–0EA10
0.5	0.12	0.35–0.5	6.5	100	3RV1011–0FA10
0.63	0.18	0.45–0.63	8.2	100	3RV1011–0GA10
0.8	0.18	0.55–0.8	10	100	3RV1011–0HA10
1	0.25	0.7–1	13	100	3RV1011–0JA10
1.25	0.37	0.9–1.25	16	100	3RV1011–0KA10
1.6	0.55	1.1–1.6	21	100	3RV1011–1AA10
2	0.75	1.4–2	26	100	3RV1011–1BA10
2.5	0.75	1.8–2.5	33	100	3RV1011–1CA10
3.2	1.1	2.2–3.2	42	100	3RV1011–1DA10
4	1.5	2.8–4	52	100	3RV1011–1EA10
5	1.5	3.5–5	65	100	3RV1011–1FA10
6.3	2.2	4.5–6.3	82	100	3RV1011–1GA10
8	3	5.5–8	104	50	3RV1011–1HA10
10	4	7–10	130	50	3RV1011–1JA10
12	5.5	9–12	156	50	3RV1011–1KA10
0.16	0.04	0.11–0.16	2.1	100	3RV1021–0AA10
0.2	0.06	0.14–0.2	2.6	100	3RV1021–0BA10
0.25	0.06	0.18–0.25	3.3	100	3RV1021–0CA10
0.32	0.09	0.22–0.32	4.2	100	3RV1021–0DA10
0.4	0.09	0.28–0.4	5.2	100	3RV1021–0EA10
0.5	0.12	0.35–0.5	6.5	100	3RV1021–0FA10
0.63	0.18	0.45–0.63	8.2	100	3RV1021–0GA10
0.8	0.18	0.55–0.8	10	100	3RV1021–0HA10
1	0.25	0.7–1	13	100	3RV1021–0JA10
1.25	0.37	0.9–1.25	16	100	3RV1021–0KA10
1.6	0.55	1.1–1.6	21	100	3RV1021–1AA10
2	0.75	1.4–2	26	100	3RV1021–1BA10
2.5	0.75	1.8–2.5	33	100	3RV1021–1CA10
3.2	1.1	2.2–3.2	42	100	3RV1021–1DA10
4	1.5	2.8–4	52	100	3RV1021–1EA10
5	1.5	3.5–5	65	100	3RV1021–1FA10
6.3	2.2	4.5–6.3	82	100	3RV1021–1GA10
8	3	5.5–8	104	100	3RV1021–1HA10
10	4	7–10	130	100	3RV1021–1JA10
12.5	5.5	9–12.5	163	100	3RV1021–1KA10
16	7.5	11–16	208	50	3RV1021–4AA10
20	7.5	14–20	260	50	3RV1021–4BA10
22	11	17–22	286	50	3RV1021–4CA10
25	11	20–25	325	50	3RV1021–4DA10

1. 对于四极标准电机在交流50Hz, 400V条件下的推荐数据。对于产品选型起决定作用的是被保护电机的实际起动数据和额定数据。
The recommended data for four–phase standard electromotor under the condition of AC50Hz, 400V. What affects the product most is the factual starting data and rated data of the protected electomotor.

断路器的过电流保护特性 The Protection Characteristic Against Over–current of The Breaker

额定电流倍数 The multiple of rated current	起始状态 Starting state	规定时间 Stipulated time	预期结果 Due result	周围空气温度 The temperature of ambient air
1.05	冷态 Cold state	t≥2h	不脱扣 No disjointing	+20℃ ± 2℃
1.2	热态(紧接序1试验后升至规定电流) Hot state (rises up to the stipulated current after following the test of No 1)	t<2h	脱扣 Disjointing	
1.5	1倍整定电流热平衡后开始 One–time commuting current Starts after the bot balance	t< 2min	脱扣 Disjointing	
7.2	冷态 Cold state	2<t≤10s	脱扣 Disjointing	

脱扣特性曲线 Tripping Characteristic Curve



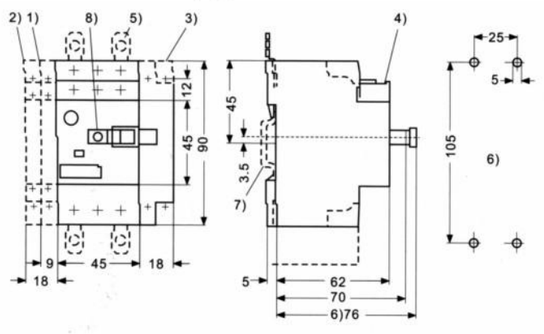
1、2相负荷脱扣等级10
Load tripping grade of the phasel and phase 2 is 10

2、3相负荷脱扣等级10
Load tripping grade of the phase2 and phase 3 is 10

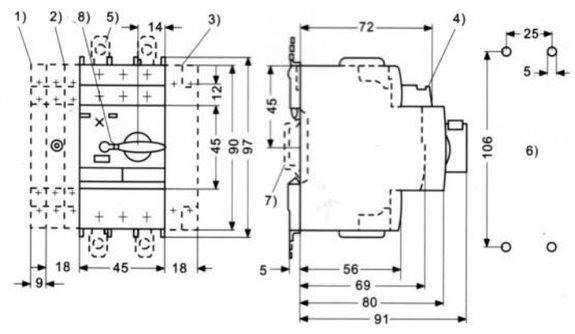
3、3相负荷脱扣等级10
Load tripping grade of the phase3 and phase 3 is 10

外形安装尺寸 The external fixing dimension

DZS8–12断路器 Circuit breaker 3RV1011



DZS8–25断路器 Circuit breaker 3RV1021



1. 二极侧面辅助触头；2. 信号开关或四极侧面辅助触头；3. 辅助脱扣器；4. 横向辅助触头；5. 螺钉按装插接片；6. 钻孔模板； 7. 35mm标准安装导轨；
8. 在断开位置可上锁，钩环直径为3.5mm或4.5mm.
1. 2–pole side supplementary switch; 2. signal switch or 4–pole side supplementary switch; 3. supplementary releaser;
4. transverse supplementary contact; 5. patching slice for screw installation; 6. punching template; 7. 35mm standard installation guideway;
8. lock the locationof breaking the diameter of the staple is 3.5mm or 4.5mm.

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DZM0-25(PKZM0-25)



DZM0(PKZ0-NHI11)

适用范围 Application

DZM0(PKZM0)电动机保护断路器适用于交流50/60Hz，额定绝缘电压750V，额定工作电压至660V，额定工作电流自0.1A至25A，用于电动机过载保护，短路保护及断相保护，也可直接起动和分断电动机的全压起动器和额定电流由0.1A至25A的电路中作为线路保护，该产品具有外观漂亮，结构紧凑、体积小、分断能力高，使用寿命长等特点。

DZM0(PKZM0) Motor Protective Circuit Breaker is applicable for the circuit of AC 50/60Hz, rated insulation voltage 750V, reted operating voltage up to 660V, rated operating current from 0.1A to 25A. It is used for protecting the motor against overload,short-circuit and phase-failure,It can be also used for starting and breaking the stater of motor and for the circuit protection in the circuit of 25A.

- Compact design
- Screw or DIN rail mounting
- Standard breaking capacity
- Thermal and electromagnetic trip
- Rated operational current up to 25A
- Switching capacity 150/50KA/145V
- Short-circuit release, fixed setting to 14X Iu
- Single-phasing sensitive
- With screws or spring loaded terminals
- Comply with IEC/EN6.0947

技术参数 Specifications

电动机额定功率 Power of controlled motor 400V P kW	额定工作电流 Rated operating current 400V Ie A	过载脱口器整定范围 Range of overload tripping current Ir A	额定分断电流 Switching capacity 400V Iq kA
–	0.16	0.1–0.16	100
0.06	0.25	0.16–0.25	100
0.09	0.4	0.25–0.4	100
0.12	0.63	0.4–0.63	100
0.25	1	0.63–1	100
0.55	1.6	1–1.6	100
0.75	2.5	1.6–2.5	100
1.5	4	2.5–4	100
2.2	6.3	4–6.3	100
3	6.6	6.3–10	100
4	10	6.3–10	100
5.5	16	10–16	50
7.5	16	10–16	50
9	20	16–20	50
12.5	25	20–25	50



DZ116(MS116)



DZ116(MS116)



DZ116(MS116)



DZ116(MS116)

适用范围 Application

DZ电动机起动器是一种可靠和节约成本的电动机保护方案。它具有非常广泛的应用场合。一般应用于工程和工厂、工业系统、传送带系统、化学工业包括过程处理、药品工业、建筑自动化(如空调系统)、环保工厂、电厂、净水及污水处理、机床工业等。额定电流由0.1A至100A。可对电机和线路进行高效可靠的过载、短路、断相及欠压保护。

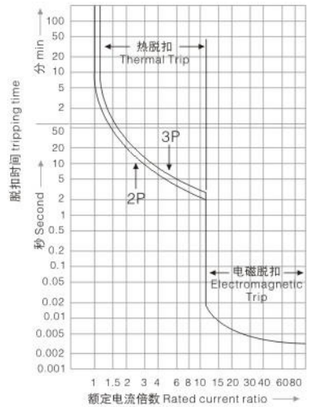
DZ motor starter is a reliable and cost saving motor protection scheme. It has a very wide range of applications. Generally used in transmission engineering and plant, industrial system, belt system, chemical industry, pharmaceutical industry, including the process of building automation (such as air conditioning systems), environmental protection factory, power plant, water purification and sewage treatment, machine tool industry etc.. Rated current from 0.1A to 100A. High efficient and reliable overload, short circuit, broken phase and under voltage protection of motor and circuit.

型号及命名 Model and name

DZ 116 - 6.3

- 热保护最大设定值
  Maximum set value of thermal protection
- 额定电流、脱扣级别及分断能力
  Rated current, trip level and breaking capacity
  116-32A. class 10A (10/16/30/50kA)
  132-32A. class 10 (25/50/100kA)
  450-50A. class 10 (50kA)
  451-50A. class 20 (50kA)
  495-100A. class 10 (50kA)
  496-100A. class20 (100kA)
  497-100A. class 10 (100kA)
- 热磁脱扣
  Thermal magnetic trip

脱扣曲线图 Trip Diagram



技术参数 Specifications

型号 type			Dz116	Dz132	DZ450/451	DZ495/496/497
额定绝缘电压 Rated insulation voltage Ui	IEC EN 60947	VAC	690			
	CSA/UL/NEMA	VAC	600			
额定工作电压 Rated operating voltage Ue		V	690AC			
额定冲击耐受电压 Rated impulse withstand voltage Uimp		KV	6			
额定工作电流 Rated operating current Ie		A	32A	32A	50A	100A
额定持续发热电流 Rated continuous heating current Ith		A	32A	32A	50A	100A
额定频率 Rated frequency		Hz	50/60			
电流设定范围 Current setting range Ie		A	0.1~32	0.1~32	11~50	28~100
短路分断能力 Short to the breaking capacity Ie		400V	Max50kA	Max100kA	Max50kA	Max100kA

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