

DZ518(GV2)Motor protection circuit breaker

■ Main Purpose



DZ518(GV2-ME)

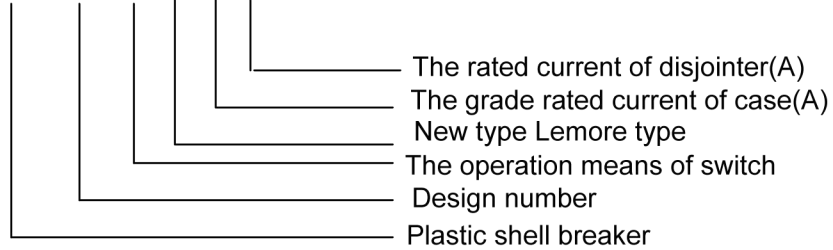
DZ518 (GV1,GV2,GV3)the series electric motor protection circuit breaker,uses the modular design,the contour is artistic,the volume is small,breaks protects,inside sets Hot Relay,the function is strong,the versatility is good.The DZ518 series conforms to IEC60947.2 and IEC60947-4.1 as well as the EN60947-1 standard.The switch and the contact device may compose the electric motor is direct starts.The DZ518 series outer covering protection rankmay achieve IP65.This series pooled three types model product:DZ518(GV2-M,ME) is the electric motor belt thermomagnetism protection circuit breaker which the button controls; DZ518-(GV2-RS) is the electric motor belt thermomagnetism protection circuit breaker which the changeover switch controls;DZ-518-(GV2-LS,LE) is the electric motor belt magnetism protection circuit breaker which the changeover switch controls (does not bring hot protection).



DZ518(GV2-M)

■ The model and meaning

DZ 518 □ □ -32/□



DZ518(GV2-RS,LS,LE)

■ DZ518 Air switch of the motor



DZ518(GV1-M)

DZ518(GV2-M)(ME)(P)		DZ518(GV2-RS)		DZ518(GV2-LS)(LE)	
MO1C	0.1-0.16	RS01C	0.1-0.16		
M02C	0.16-0.25	RS02C	0.16-0.25		
M03C	0.25-0.40	RS03C	0.25-0.40	LS03	0.25-0.40
M04C	0.40-0.63	RS04C	0.40-0.63	LS04	0.40-0.63
M05C	0.63-1	RS05C	0.63-1	LS05	0.63-1
M06C	1-1.6	RS06C	1-1.6	LS06	1-1.6
M07C	1.6-2.5	RS07C	1.6-2.5	LS07	1.6-2.5
M08C	2.5-4	RS08C	2.5-4	LS08	2.5-4
M10C	4-6.3	RS10C	4-6.3	LS10	4-6.3
M14C	6-10	RS14C	6-10	LS14	6-10
M16C	9-14	RS16C	9-14	LS16	9-14
M18C	10-16	RS18C	10-16	LS18	10-16
M20C	13-18	RS20C	13-18	LS20	13-18
M21C	17-23	RS21C	17-23	LS21	17-23
M22C	20-25	RS22C	20-25	LS22	20-25
M32C	24-32	RS32C	24-32		

DZ518(GV2)Motor protection circuit breaker

The rated power of three-phase electromotor controlled by breaker(GV2 motor circuit breaker)

The adjusting range of rated current $i_e(A)$	The standard power of three-phase electromotor KW.AC-350HZ/60HZ					
	230/240V	400V	415V	440V	500V	690V
0.1-0.16						
0.16-0.25	-	-	-	-	-	-
0.25-0.4	-	-	-	-	-	-
0.4-0.63	-	-	-	-	-	0.37
0.63-1					0.37	0.37
1-1.6			0.37		0.55	0.75
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

The disjuncting current commuting value of breaker in instant magnetic field



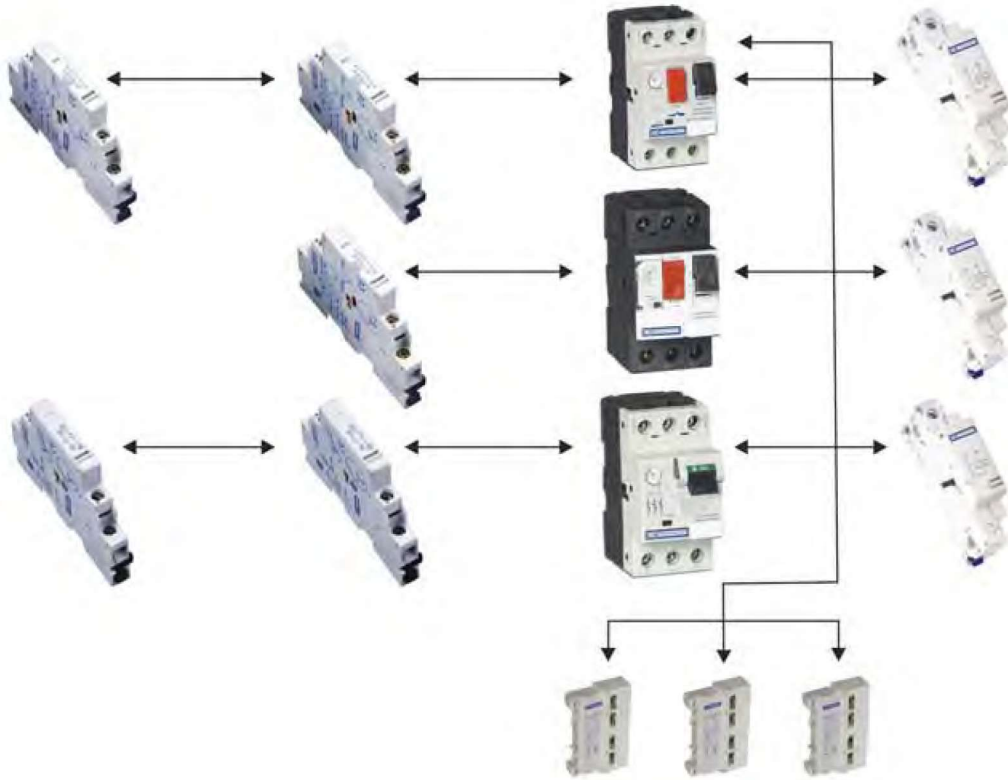
DZ518(GV2-P)



DZ518(GV2-MC../GV4)

Rated current $I_n A$	The adjusting range commuting current for components A	The disjuncting current commuting value in instant field $I_n A$
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

■ Accessories



■ Contacts of accessories

Name of accessories	Code	The type of contacts		Installation place
Instantaneous auxiliary contacts	AE1	1NO/NC		The front of breaker(1pc can be installed)
	AE11	1NO+NC		
	AE20	2NO		
	AN11	1NO+1NC		The left of breaker(4pcs can be installed)
	AN20	2NO		
Fault singal contacts+Instantaneous auxiliary contacts	AD1010	Constant-open trouble	NO	The left of breaker(4pcs can be installed)
	AD1001		NC	
	AD0110	Constant-closed trouble	NO	
	AD0101		NC	
Short circuit contacts	Am11	1NO,1NC		

DZ518(GV2)Motor protection circuit breaker

Electric disjuncting

Name of accessories	Code	Voltage/V	Installation place
Lack-voltage disjuncting	AU115	110-127V 50HZ	The right of breaker(1pc can be installed)
	AU225	220-240V 50HZ	
	AU385	380-415V 50HZ	
Division disjuncting	AS115	110-127V 50HZ	
	AS225	220-240V 50HZ	
	AS385	380-415V 50HZ	
Be used to the release of low voltage	AX115	110-127V 50HZ	
	AX225	220-240V 50HZ	
	AX385	380-415V 50HZ	

The protective case of breaker

Name of accessories	The protection grade of case	Code
External installation shell	IP41	MC01
	IP55	MC02
	IP65	MC03

■ The external fixing dimension

1.The outline and fixing dimension of breaker(GV2 motor circuit breaker)(refer to chart 2,3).

2.The breaker(GV2 motor circuit breaker) adopts the standard conductor rail installation,the conductor rail should meet the A2.1TH35-7.5 type installation standard of JB6525.

3.The external installation dimension of GV2 motor circuit breaker(refer to chart4.5).

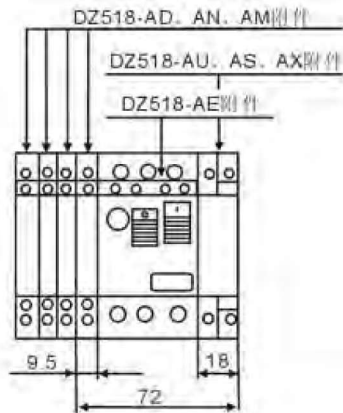


图4 DZ518-AN... AD.... AM..
DZ518-AU... AS.... AX...
DZ518-AE..

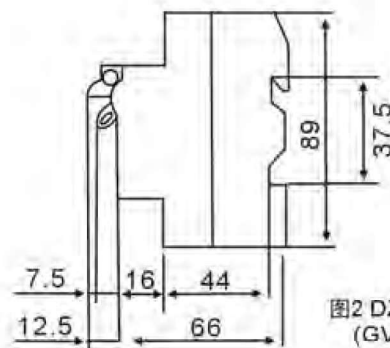


图2 DZ518-RS, LS
(GV2-RS, LS)

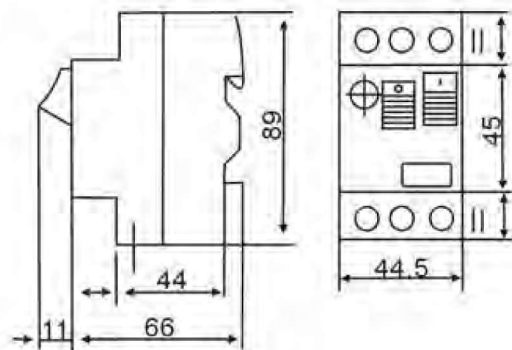
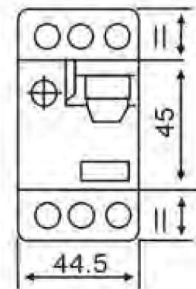


图3 DZ518-M
(GV2-M)

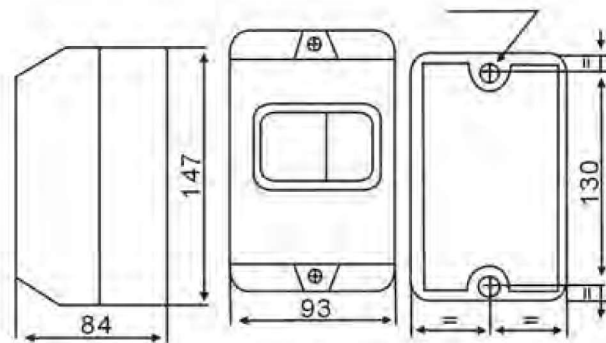
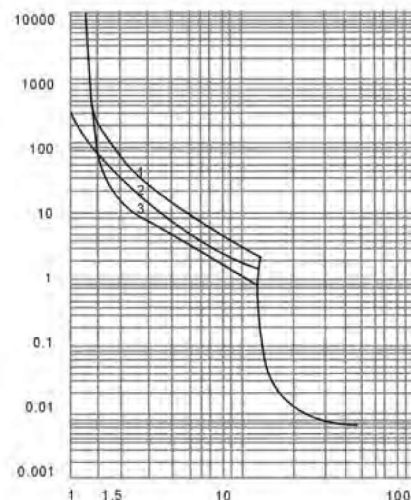


图5 DZ518-MC(GV2-MC/GV4)

4.The character curve of disjointsing

The average work time according to the multiple of commuting current.

- (1) Begin with cold state,3poles
- (2) Begin with cold state,2poles
- (3) Begin with hot state,3poles



DZ518(GV2)Motor protection circuit breaker

■ Main Technical Parameters

1. Rated insulation voltage $U_i(V)$:690;
2. Rated work voltage $U_e(V)$:230/240、400/415、440、500、690;
3. Rated frequency HZ:50/60;
4. The grade rated current of shell $I_{nm}(A)$:32;
5. The rated voltage of disjoiner $I_n(A)$;
6. The adjusting range of commuting current(A);
7. The cutting capacity for rated limit short circuit $I_{cu}(KA)$;
8. The cutting capacity for rated work short circuit $I_{cs}(KA)$;
9. The bearable voltage for rated shock $U_{imp}(V)$:8000.

Rated Current $I_n(A)$	The adjusting range of commuting current	The cutting capacity for rated limit short circuit I_{cu} ,the cutting capacity for rated work short circuit I_{cs}										The distance of arcs(mm)	
		230/240V		400/415V		400V		500V		690V			40
		$I_{cu}(KA)$	$I_{cs}(KA)$	$I_{cu}(KA)$	$I_{cs}(KA)$	$I_{cu}(KA)$	$I_{cs}(KA)$	$I_{cu}(KA)$	$I_{cs}(KA)$	$I_{cu}(KA)$	$I_{cs}(KA)$		
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	
1.65	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	

DZ518(GV2)Motor protection circuit breaker

The characteristic of over-current action protection

1. The action characteristic breaker(GV2 motor circuit breaker) when every phase load is in balance

The multiple of rated current	Starting state	Stipulated time	Due result	The temperature of ambient air
1.05	Cold state	$t \leq 2h$	No disjuncting	$+40^{\circ}\text{C} \pm 2^{\circ}\text{C}$
1.2	Hot state(rise up to the stipulated current after following the test NO.1	$t < 2h$	Disjuncting	
1.5	One-time commuting current starts after the hot balance	$t < 2\text{min}$	Disjuncting	
7.2	Cold state	$2 < t \leq 10s$	Disjuncting	

2. The action characteristic of breaker(GV2 motor circuit breaker) when every phase load is in balance(phase-broken)

The multiple of rated current		Starting state	Stipulated time	Due result	The temperature of ambient air
Any two phases	The third phases				
1	0.9	Cold state	$t \leq 2h$	No disjuncting	$+40^{\circ}\text{C} \pm 2^{\circ}\text{C}$
1.15	0	Hot state(rises up to the stipulated current after following the test of No1)	$t < 2h$	Disjuncting	