

Switch disconnector VR32U EKF MAXima

1. PURPOSE

Switch disconnectors VR32U EKF MAXima (universal) are designed for manual on-off AC circuits with rated voltage not over than 690V and a frequency 50Hz.

The design incorporates 3 -pole contact system blade type with double visible break of the circuit. A double break of the circuit, a big opening of contacts and arc chute provide effective electric arc quenching under switching loads that prevents premature and excessive wear of contacts.

Design of the nodes provides bolted connection of bus bars or conductors terminated with a cable luq.

All switch disconnectors are universal by their type of the handle connection. Design of the switch disconnector provides the installation of the handle both to the right of the body and to the left. Handle location, left or right, can be changed during operation if necessary. Location of the plane of nodes external terminals connection is perpendicular to the plane of the mounting with the arc chutes.

The are several production versions of VR32U EKF MAXima:

- Single and two directions
- with fixed handle
- with detachable shifted handle.

2. TECHNICAL CHARACTERISTICS

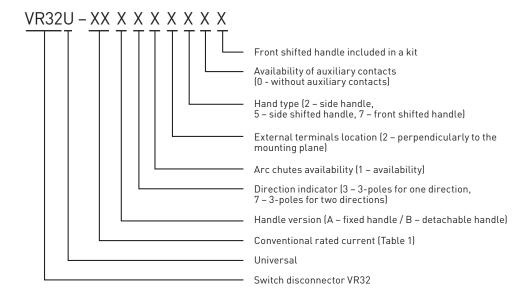


TABLE 1

Conventional rated current, A	Reference designation
100	31
250	35
400	37
630	39

TABLE 2

Parameters		Valu	ıes		
Conventional thermal current outdoors Ith, A	100	250	400	630	
Rated short-time withstand current, κΑ	5	8	11	16	
Rated conventional short circuit current, кА	8	14	22	32	
Mechanical endurance, number of cycles, no less than	25000	25000	16000	16000	
Section of connecting conductors,max mm2	35	120	240	2x240	
Rated insulation voltage, Ui, V	690				
Rated operating voltage, Ue, V	400, 690				
Number of poles		31	>		
Application categories	AC-21E	3, AC-22I	B (Arc cl	hutes)	
Protection degree	IP32 (ii	IP(nstallatio ne	on inside	e cabi-	
Operating temperatures range, °C		от -60 д	до +40		
Climatic version	λΧΊ	13 (temp	erate co	old)	
Altitude above sea level, m		up to	2000		
Service life, no less than, years		10)		

TABLE 3

Current type	Application category	Typical range of application					
AC	AC-21 B	Switching of resistive loads, including moderate overloads					
AC	AC-22 B	Switching of mixed resistive and inductive loads, including moderate overloads					

Production versions of switch disconnectors VR32U EKF MAXima: TABLE 4 $\,$

Name	Rated current, A	Directions	Version	Net mass, kg
VR32U-31A31220	100	1		1,2
VR32U-35A31220	250	1		2,2
VR32U-37A31220	400	1		3,2
VR32U-39A31220	630	1	With arc chutes, fixed	6,7
VR32U-31A71220	100	2	handle	1,3
VR32U-35A71220	250	2		2,7
VR32U-37A71220	400	2		4,0
VR32U-39A71220	630	2		6,3
VR32U-31A31240-r	100	1		1,7
VR32U-35A31240-r	250	1		2,7
VR32U-37A31240-r	400	1		3,2
VR32U-39A31240-r	630	1	With arc chutes,	5,3
VR32U-31A71240-r	100	2	detachable shifted handle	2,1
VR32U-35A71240-r	250	2		3,2
VR32U-37A71240-r	400	2		4,5
VR32U-39A71240-r	630	2		7,6

3. OVERALL DIMENSIONS

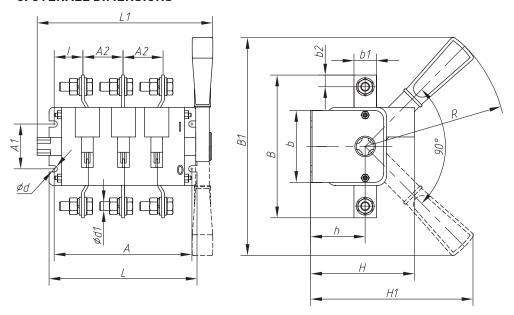


Fig. 1 - Universal switch disconnector 3-poles for one direction with arc chutes, fixed left/right handle

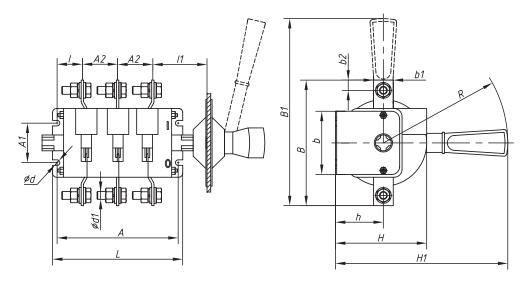


Fig. 2 - Universal switch disconnector 3-poles for one direction with arc chutes, detachable left/right handle

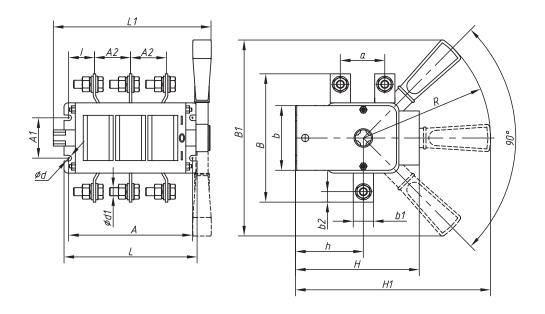


Fig. 3 - Universal switch disconnector 3-poles for two directions with arc chutes, fixed left/right handle

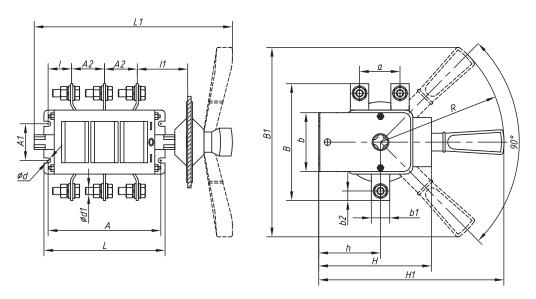


Fig. 4 - Universal switch disconnector 3-poles for two directions with arc chutes, detachable left/right handle

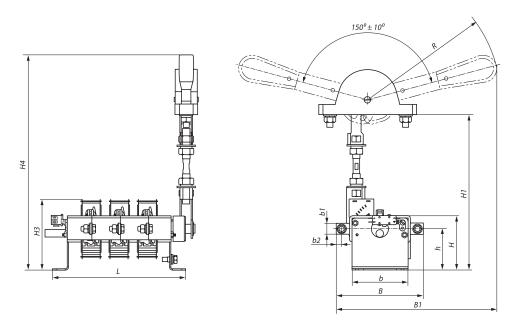


Fig. 5 - Universal switch disconnector 3-poles for one direction with arc chutes, fixed front offset left/right handle

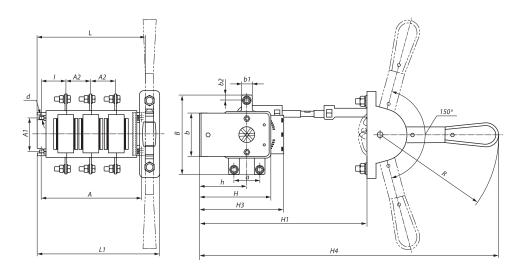


Fig. 6 - Universal switch disconnector 3-poles for two directions with arc chutes, fixed front offset left/right handle

TABLE 5

M 1.1	Dimensions, mm																				
Model	А	A1	A2	В	B1	L1	L	b	b1	b2	Н										
			I																		
VR32U-31A31220	162,5			5 117	240	176	176,5	75		7,5	110										
VR32U-31B31250			37,5		219	267			15												
VR32U-31A31240-R					231	202															
VR32U-35A31220				164	240	190	186	83													
VR32U-35B31250	173,5	50	44		242	282			25	12,5	112										
VR32U-35A31240-R					249	214															
VR32U-37A31220			50	178	240	215					124,5										
VR32U-37B31250	203				250	297,5	214,5	99,5	26,5	13											
VR32U-37A31240-R					244	240															
VR32U-39A31220	236,5		65	220	313	250	252,5	119	35	18	137,5										
VR32U-39B31250		100			320	332															
VR32U-39A31240-R					313	280															
VR32U-31A71220	145,5	145,5	145,5	145,5											168						
VR32U-31B71250					37,	37,5	7,5 120	240	262,5	157,5	65	15	7,5	127,5							
VR32U-31A71240-R					-	193,5															
VR32U-35A71220						183				12,5	150										
VR32U-35B71250	160		44	162	240	279	172	80,5	25												
VR32U-35A71240-R					-	208															
VR32U-37A71220		50				215															
VR32U-37B71250	200		50	164	240	305	212	89,5	26	13	175										
VR32U-37A71240-R					-	240															
VR32U-39A71220							_	251													
VR32U-39B71250	236		65	208	313	336,5	252	105,5	35	17,5	215										
VR32U-39A71240-R					_	280															

Dimensions, mm							fia																											
H1	H2	Н3	H4	I	I1	h	d	d1	R	а	fig																							
175	_	_	_		_						1																							
215	_	_	_	44	80	55		M6	160		2																							
250	332	95	332	. 44	-	. 33		1410	177		5																							
180	-	-	-		_				177		1																							
219	_	_	_	47	80	58	7		160 177 160		2																							
250	332	102	332	47		. 30	,				5																							
191	332	102	332		-			M10			1																							
	-	-	-	F0	-	70.5																												
232	222	100	000	50	80	70,5					2																							
250	332	120	332		-				177		5																							
240	-	-	-	_	_	_	9		207		1																							
290	-	-	-	52	83	83,5		M12	207		2																							
350	452	148,5	452		-				237		5																							
231,5	-	-	-		-				160	38	3																							
	-	-	-	35,5	80	71,5		M6	160		4																							
250	449	125	449		-				177		6																							
238,5	-	-	-		-				160		3																							
230,3	-	-	-	36	80	78,5	78,5	78,5	78,5	78,5	78,5	78,5	78,5	78,5	78,5	78,5	78,5	78,5	78,5	78,5	78,5	78,5	78,5	78,5	78,5	78,5	78,5	78,5	78,5	7		160	58	4
250	449	150	449		-			N/10	177		6																							
2525	-	-	-		-			M10	160		3																							
259,5	-	-	-	49	80	99,5			160	62	4																							
250	449	175	449		-				177		6																							
220 E	-	-	-		-				207		3																							
330,5	-	-	-	52,5	83	120,5	9	M12	207	72	4																							
350	621	215	621		-				237		6																							

4. BASIC DIAGRAM

For two directions

5. GENERAL KITTING

Delivery set includes:

- 1. Switch disconnector series VR32U EKF MAXima;
- 2. Handle (detachable/fixed):
- 3. Arc chutes:
- 4. Fasteners;
- 5. Product passport.

6. MAINTENANCE AND INSTALLATION FEATURES

Installation and startup of the unit must be performed by qualified personnel. The unit is attached to the mounting plate. Switch disconnector can be operated in any position if the product operating is ensured. Plane of connection of the external terminals of the nodes is located perpendicularly to the mounting plane. Construction of nodes provides bolted connection of bars or conductors terminated with lugs. Before installing make sure that there is no external damage.

7. TRANSPORTATION AND STORAGE CONDITIONS

- 7.1 The switch disconnectors can be transported by any kind of closed transport ensuring protection of packaged products from mechanical efforts and atmospheric precipitations.
- 7.2 The switch disconnector should be stored in the original package indoors at ambient temperatures ranging from -60 to +40 C $^{\circ}$. Relative humidity should be 50% at high temperatures and 90% at low temperatures. The magnetic field at the installation site must not exceed six times the earth's magnetic field.

8. MANUFACTURER GUARANTEE

- 8.1 The manufacturer guarantees the compliance of switch disconnectors to the requirements of GOST IEC 60947-3-2016 subject to observance by the consumer of service, transportation and storage conditions.
- 8.2 Warranty period: 3 years from the date of sale of the product.
- 8.3 Service life: 10 years.
- 8.4 Guaranteed shelf life: 5 years.

9. DISPOSAL

The product that have spent their life and have failed should be disposed of in accordance with the current legal requirements on the territory of the product sale. The product should be disposed of by transferring it to a specialized enterprise for processing secondary raw materials in accordance with the requirements of the legislation of the territory of sale

10. TEST CERTIFICATE

Switch disconnectors comply with requirements of GOST IEC 60947-3-2016 and are serviceable.
Manufacture date
Manufacturer's technical control stamp
11. NOTE OF SALE
Date of sale
Seller's signature
Seller's stamp

Manufacturer: «Yueqing Xile Electric Appliances Co.», LTD Daidong village, Liushi town, Zueqing city, Zhejiang, China

Importer and EKF trademark service representative on the territory of the Russian Federation: 000 «Electroresheniya», Otradnaya st., 2b bld. 9, 5th floor, 127273, Moscow, Russia. Tel.: +7 (495) 788-88-15.

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