

CATALOGUE

TRACTION OUTDOOR DISCONNECTORS

TYP QAD 35

35 kV; 2000; 3000 A

Unser Handelspartner in Deutschland



ISO 9001:2009 ISO 14001:2005



APPLICATION

The QAD 35 and QADZ 35 disconnectors are used in single-phase AC traction lines and feeding stations of 25 kV rated voltage (to ČSN 34 1500). They allow a disconnection of circuit under load, in emergency situations. The disconnectors can be operated by electric motors or hand operated drives.

STANDARDS AND REGULATIONS

The disconnectors comply with the ČSN 35 4210 eqv IEC 129, the ČSN 34 1500 standards and related regulations.

OPERATING CONDITIONS

The	disco	nnector	design comp		ies with
	ement		outdoor		operating
enviro	nment	:.			
Highes	st ambi	ent tempe	erature		+ 50 °C
Lowest ambient temperature					- 50 °C
Relativ	ve air h	numidity			100 %

IV

1000 m Altitude up to Degree of contamination according to ČSN 33 0405

DESCRIPTION

- current-carrying path with two interruption points when in disconnected state
- knife-type contacts
- arcing tips (protecting the main current-carrying path against damage in case of unintended disconnection of the respective circuit under load)
- connecting plate (connecting flag) with "railway" type of clamps, used for the fastening of up to 6 power leads of up to 120 mm² cross section. Design of the input parts
- the connection of leads may be arranged in two perpendicular directions, with any two leads fastened by two clamps
- possibility to connect busbars or cables
- parts of the current-carrying path made of silver coated copper
- supporting insulators made of plastics or ceramic (the latter to be agreed upon with the customer)
- connecting parts and other small parts manufactured of stainless steel
- hot galvanized frame and other steel parts
- the QADZ 35 disconnector equipped with earthing knife contact, the movement of which depends on the travel of the contacts of disconnector. In the disconnector OFF position one side of the power line is earthed.
- disconnectors with isolating earthing switch are designed for use in the AC traction systems with a nominal voltage of 38,5kV. In the swicth-off state, the disconnector QADZI 35 will connect a disconnected section with isolating grounding system, which is isolated from the supporting frame of a device.

PACKING, TRANSPORT, STORAGE

Outdoor horn disconnectors for electric traction are supplied as separate devices, attached to wooden pallets. The system is not be exposed to excessive vibrations during transport.

All used packing materials are fully recyclable.

INSTALATION AND

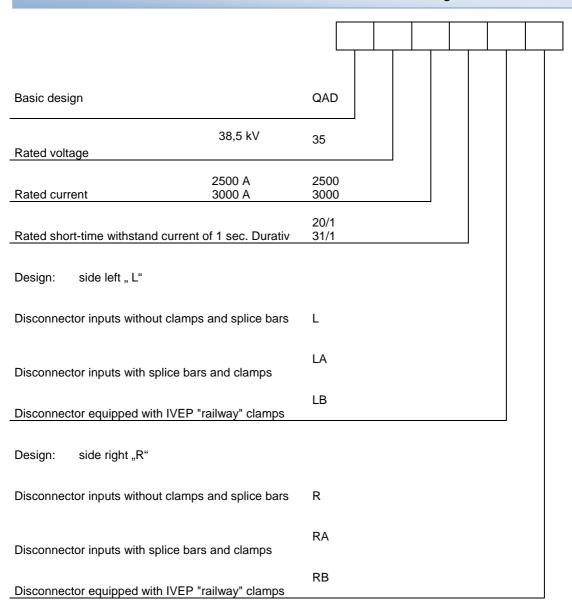
One of the prerequisites for a reliable and defectfree operation of a switching device is the installation which is to be carried out with care and in a professional manner. The assembly, servicing and operating instructions are shown in the accompanying documents being an integral part of the delivery.

SPECIFICATION

		QAD 35	QADZ 35 QADZI 35			
Rated frequency	Hz	50				
Rated voltage (to ČSN 35 4210	kV	38,5				
Lightning impulse test voltage	kV	18	30			
Lightning impulse test voltage applied across the isulating distance	kV	210				
Short-time test withstand AC voltage, 50 Hz, 1 minute (in both dry and wet conditions)	kV	85				
Short-time test withstand AC voltage, 50 Hz, 1 minute, applied across the isulating distance (in both dry and wet conditions)	kV	100				
Rated current	Α	2000,	3000			
Rated short-time current	kA	20;	31,5			
J Rated dynamic current	kA	50;	80			
Stroke of the operating handle		140				

The disconnector insulation level meets the requirements of the ČSN 34 1500 standard, Table No. 3. The apparatus is to be mounted in horizontal position.

TYPE DESIGNATION CODING - basic design



Example of coding when placing and order: QAD 35.3000.20/1.LA.RA

TYPE DESIGNATION CODING – disconnector with earthing switch

Basic design		QADZ					
Rated voltage	38,5 kV	35					
Rated current	2500 A 3000 A	2500 3000					
Rated short-time withstand c	urrent of 1 sec. Durativ	20/1 31/1					
Design: side left " L"							
Disconnector inputs without of	clamps and splice bars	L					
Disconnector inputs with splin	LA						
Disconnector equipped with I	VEP "railway" clamps	LB					
Design: side right "R"							
Disconnector inputs without of	clamps and splice bars	R					
Disconnector inputs with splice	LA uts with splice bars and clamps LB ipped with IVEP "railway" clamps ight " R"						
Disconnector equipped with IVEP "railway" clamps		RB					
Location of earthing switch	(left) (right)	L R					

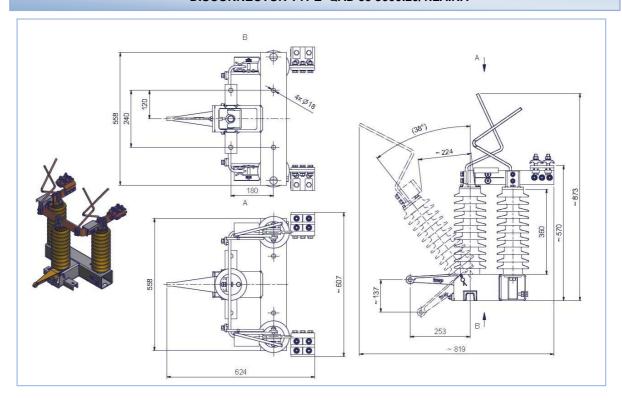
Example of coding when placing and order: QADZ 35.3000.20/1.LA.RA.L

TYPE DESIGNATION CODING - DISCONNECTOR WITH INSULATED EARTHING SWITCH

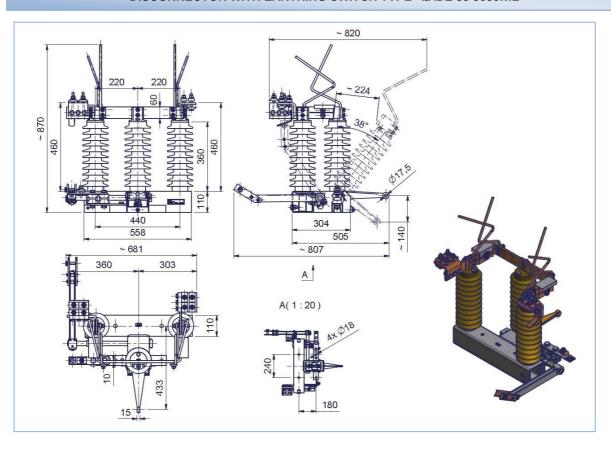
				l l		<u> </u>	
Basic design		QADZI					
	20 E W/						
Rated voltage	38,5 kV	35					
	2500 A	2500	•				
Rated current	3000 A 3000 A	3000					
		20/1					
Rated short-time withstand cur	rent of 1 sec. Durativ	31/1					
Design: side left "L"							
Disconnector inputs without cla	amps and splice bars	L					
		1. 4					
Disconnector inputs with splice	e bars and clamps	LA					
		LB					
Disconnector equipped with IV	EP "railway" clamps						
Design: side right "R"							
		_					
Disconnector inputs without cla	amps and splice bars	R					
		RA					
Disconnector inputs with splice bars and clamps		IV.A					
		RB					
Disconnector equipped with IVEP "railway" clamps		· ·=					
	(left)	L					
Location of earthing switch	(right)	R					

Example of coding when placing and order: QADZI 35.3000.20/1.LA.RA.L

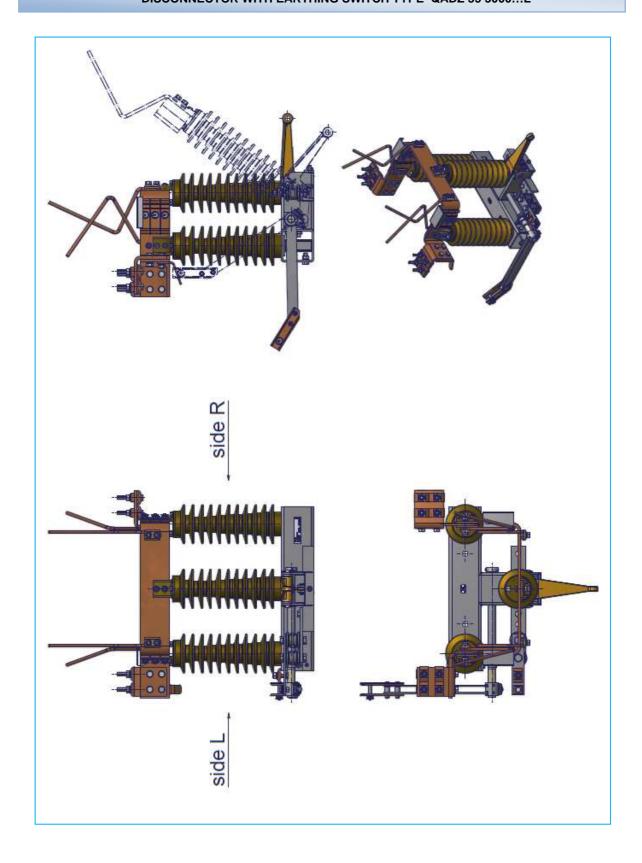
DISCONNECTOR TYPE QAD 35 3000.20/1.LA.RA



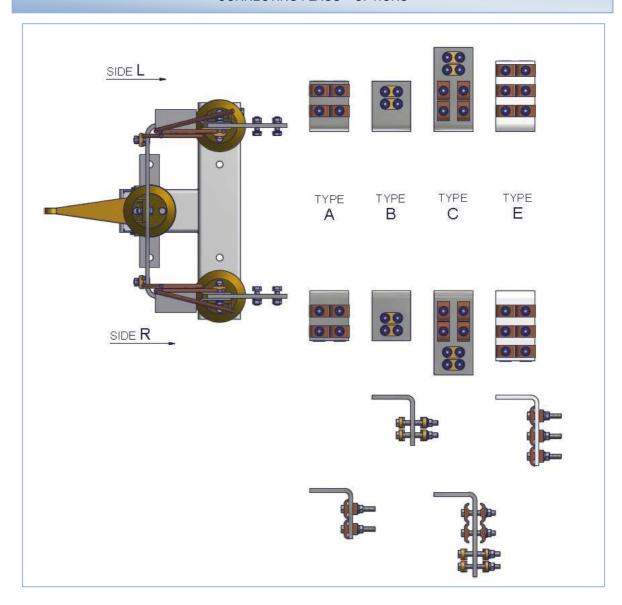
DISCONNECTOR WITH EARTHING SWITCH TYPE QADZ 35 3000...L



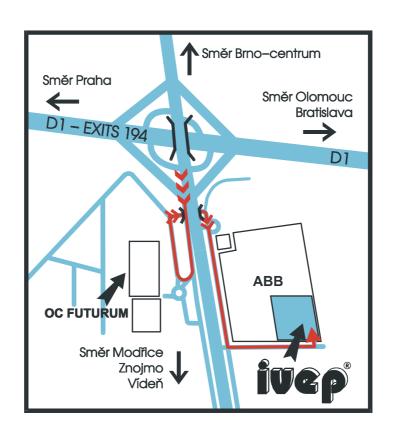
DISCONNECTOR WITH EARTHING SWITCH TYPE QADZ 35 3000...L



CONNECTING FLAGS - OPTIONS



Due to continuous development of the products some dimensions, weights, drawings and descriptions may differ from that shown in this data sheet. In order to satisfy the ever increasing needs of the customers the manufacturer reserves the right to provide modifications to the product described, without previous notice.





Domänenstr. 38 44225 Dortmund

Telefon: +49 (0) 231 - 72 73 865 Mobil: +49 (0) 174 - 59 55 755

E-mail: sales@tectrado.de Web: www.tectrado.de

Manufactured and supplied by:

IVEP, a.s. Vídeňská 117a, 619 00 Brno, Czech Republic

Tel.: +420 547136 654 e-mail:marketing@ivep.cz Fax: +420 547136 402 http://www.ivep.cz

