

REFERENCE LIST OF HIGH VOLTAGE SF₆ CIRCUIT BREAKERS

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Zemlja	Kupac	Objekat-trafostanica	Tip	Naponski nivo (kV)	Broj komada	Godina isporuke
Country	Customer	Object-substation	Type	Rated insulation level (kV)	Number of pieces	Year of delivery
YUGOSLAVIA JUGOSLAVIJA	ELEKTROPRIVREDA		SFE 11	123	108	1976
INDONESIA INDONEZIJA	PERUSAHAAN UMUM LISTRIK NEGARA (PLN)-JAKARTA	S/S PAJAPASIR S/S MEDANTIMUR S/S TITIKUNING	SFE 13	170	3 4 1	1978
YUGOSLAVIA JUGOSLAVIJA	ELEKTROPRIVREDA ELEKTROPRIVREDA		SFE 11 SFE 11	123 123	78 78	
ALBANIA ALBANIJA	MAKINAIMPORT TIRANA		SFE 13	170	1	
HOLLAND HOLANDIJA	COQ HOLLAND		Breaking Element	170	45	1979
MEXICO MEKSIKO	COMISION FEDERAL DE ELECTRICIDAD C.F.E.		SFE 14	245	6	
YUGOSLAVIA JUGOSLAVIJA	ELEKTROPRIVREDA		SFE 14 SFE 16	245 420	10 11	
HOLLAND HOLANDIJA	COQ HOLLAND		Breaking Element	170	18	1980
INDONESIA INDONEZIJA		S/S MEDAN TPP	SFE 13	170	8	
IRAQ IRAK	STATE ORGANISATION OF ELECTRICITY BAGHDAD	S/S UPPER EUPHRATES S/S HEET S/S SHUAIBA S/S QARA QOSH	SFE 13	145	5 9 2 7	
YUGOSLAVIA JUGOSLAVIJA	ELEKTROPRIVREDA		SFE 16-2 SFE 14	420 245	14 9	1981
HOLLAND HOLANDIJA	COQ HOLLAND		Breaking Element	170	21	
IRAQ IRAK	STATE ORGANISATION OF ELECTRICITY BAGHDAD	S/S FARABI S/S RASHIDIYA S/S KHANAKIN S/S MUTHANA S/S HILLA SOUTH S/S JAMILA S/S SHATRA S/S TIRKIT S/S BABIL S/S NAJAF	SFE 13	145	4 6 8 13 10 2 5 2 6 3	
MEXICO MEKSIKO	COMISION FEDERAL DE ELECTRICIDAD C.F.E.		SFE 13	123	5	1982
YUGOSLAVIA JUGOSLAVIJA	ELEKTROPRIVREDA		SFE 16-2 SFE 14	420 245	11 6	
ALBANIA ALBANIJA	MAKINAIMPORT TIRANA		SFE 11	123	1	
CUBA KUBA	ENERGIMPORT HAVANA	S/S VICTORIA DE GIRON S/S PLAZA	SFE 11	123	3 2	1982
IRAN	TAVANIR-MINISTRY OF ENERGY TEHERAN	S/S ZANJEN	SFE 9	72,5	2	
MALASIA MALEZIJA	LEMBAGA LESTRIK NEGAR KUALA LAMPUR	S/S GOPENG ROAD S/S SHAH ALAM S/S DUNGON S/S RASAH S/S KULAI S/S PAPIN S/S KULIM S/S BANGI	SFE 13 SFEL 9	145 72,5	6 7 7 7 2 1 5 2	
TURKEY TURSKA	KEPEZ VE ANTALYA ELEKTRIK SANTRALLARI		SFE 9	72,5	2	

Zemlja	Kupac	Objekat-trafostanica	Tip	Naponski nivo (kV)	Broj komada	Godina isporuke
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YUGOSLAVIA JUGOSLAVIJA	ELEKTROPRIVREDA		SFE 16-2	420	2	1982
EGYPT EGIPAT	EGYPTIAN ELECTRICITY AUTHORITY	S/S KOMOMBO S/S HIGH DAM	SFE 12	145	3 2	1983
IRAN		S/S SHAFI	SFE 12	145	6	
TURKEY TURSKA	TURKISH ELECTRICITY AUTHORITY ANKARA VIA DISAS IZMIR		SFE 13	170	159	
YUGOSLAVIA JUGOSLAVIJA	ELEKTROPRIVREDA		SFE 11	123	12	
ALBANIA ALBANIJA	MAKINAIMPORT TIRANA		SFE 14-1	235	3	1984
INDONESIA INDONEZIJA		S/S GILIMANUK S/S ANTOSARI S/S KAPAL S/S PEMARON S/S BATURITI S/S KUTA S/S GIANYAR S/S SANUR S/S NUA DUA	SFE 13	170	5 5 6 2 3 5 3 2 2	
MALASIA MALEZIJA		S/S RENGAM S/S MANTIN S/S BAHAU	SFE 13	145	2 2 2	
ROMANIA RUMUNIJA	ROMENEGRO		SFE 13	170	3	
TURKEY TURSKA	TURKISH ELECTRICITY AUTHORITY ANKARA VIA DISAS IZMIR		SFE 9 SFE 13 SFE 9 SFE 13	72,5 170 72,5 170	9 118 2 24	
YUGOSLAVIA JUGOSLAVIJA	ELEKTROPRIVREDA		SFE 14-1 SFE 11	245 123	2 2	
ALBANIA ALBANIJA	MAKINAIMPORT TIRANA		SFE 14-1	235	1	1985
IRAQ IRAK		S/S KHANAQIN-RUTBA	SFE 13	145	2	
LIBYA LIBIJA	SECRETARIAT OF THE ELECTRICITY TRIPOLI	S/S TARHUNA S/S GHARYAN S/S SHAKSHUK S/S GADAHYA S/S ROWEIS S/S BUNJEM S/S MORAWA S/S TAMIMI S/S SERT	SFE 9	72,5	9 11 11 11 9 9 7 13 11	
MEXICO MEKSIKO	ENERGOMEX-JOINT VENTURE FOR "COMISION FEDERAL DE ELECTRICIDAD"		SFE 11 SFE 13 SFE 11 SFE 11 SFE 14-1 SFE 16-2	123 123 123 123 123 420	6 1 30 45 6 1	
TANZANIA TANZANIJA	TENESKO	S/S SINGIDA S/S MWANZA S/S SHINYANGA	SFE 14-1	245	5 3 4	
TURKEY TURSKA	TURKISH ELECTRICITY AUTHORITY ANKARA VIA DISAS IZMIR		SFE 13	170	200	
JORDAN	JORDAN ELECTRICITY	S/S BROADCASTING	SFE 13	145	7	1986



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	AUTHORITY AMMAN	S/S SAHAB			2	
LIBYA LIBIJA		S/S LAMLUDA S/S MARTUBA S/S AL ARDAM S/S RAJMA S/S M.M.B. S/S NALUT S/S SINAWN S/S DERJ S/S GHADAMES S/S GHADAMES AIRPORT S/S JAGBOUB S/S WADI SHABE S/S WADAN S/S ZELBA S/S SHWEREF	SFE 9	72,5	9 11 4 9 6 9 6 6 6 6 9 9 9 5 7	1986
MEXICO MEKSIKO	ENERGOMEX-JOINT VENTURE FOR "COMISION FEDERAL DE ELECTRICIDAD"		SFE 16-2	420	1	
YUGOSLAVIA JUGOSLAVIJA	ELEKTROPRIVREDA		SFE 14-1 SFE 16-2	245 123	6 3	
ALBANIA ALBANIJA	MAKINAIMPORT TIRANA		SFE 14-1	235	3	
INDIA INDIJA	KERALA STATE ELECTRICITY BOARD KERALA INDIA	S/S TRIVANDUM S/S COCHIN S/S KOZHICODE	SFEL 9	72,5	1 12 3	
INDONESIA INDONEZIJA	P.T. TWINK INDONESIA JL. GATOT SUBROTO NO 35 CIMAHI		SFE 13	170	2	
IRAQ IRAK		S/S AL QAIM	SFE 13	145	5	
MALASIA MALEZIJA	SABAH ELECTRICITI BOARD (SEB)	S/S PAPAR S/S BEAUFORT	SFE 13	145	4 4	1987
MEXICO MEKSIKO	ENERGOMEX-JOINT VENTURE FOR "COMISION FEDERAL DE ELECTRICIDAD"		SFE 11	123	27	
PAKISTAN	WATER AND POWER DEVELOPMENT AUTHORITY LAHORE		SFE 13 SFE 9 SFE 13	145 72,5 145	140 44 30	
USSR	SOVELECTRO MOSCOW		SFE 16-2	420	8	
CZESCHOSLOV AKIA ČSSR	Z.S.E. PRAHA		SFE 14-1	245	2	1988

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Country	Customer	Object-substation	Type	Rated insulation level (kV)	Number of pieces	Year of delivery
INDONESIA INDONEZIJA	BAKARU-SWITCHYARD	S/S TONASA III/IV	SFE 13	170	4	
		S/S PARE PARE			8	
		S/S BARU			7	
		S/S KISARAN EXT.			2	
		S/S RANTAU PRAPAT			2	
		S/S PADANG				
		SIDEMPUAN			3	
		S/S SIBOLGA			3	
		S/S BIN IAI			3	
		S/S PANGKALAN			4	
		BNANDAN			3	
		S/S LANGSA			2	
		S/S SINDIKALANG			3	
S/S TARUTUNG	2					
S/S KUALA TANJUG	3					
INDONESIA INDONEZIJA	BAKARU-SWITCHYARD	S/S TEBING TINGGI EXT	SFE 13	170	2	
		S/S PORSEA EXT.			1	
		S/S PAYA GELI EXT			1	
		S/S BRASTAGI EXT			2	
IRAQ IRAK		S/S MUQUDADIYA	SFE 13	145	10	
		S/S NEW LATIFIA			10	
		S/S ALI ALGHARBI			8	
		S/S HADITHA			6	
		S/S NEW ISKANDRAIYA			13	
		S/SBAQUBAEXTENSION			10	
		S/S HITEEN			10	
		S/S KHALIS			8	
		S/S RUMAITHA			8	
		S/S KALAR			12	
		S/SRASHDIYA EXT			4	
		S/S KHIR HOUSING			12	
		SPARE EQUIPMENT			5	
		S/S BAIJIT.P.S.EXT.			2	
S/STUZZKHORMATO	2					
MALASIA MALEZIJA		S/S BEAUFORT	SFE 13	145	2	1988
MEXICO MEKSIKO	ENERGOMEX-JOINT VENTURE FOR "COMISION FEDERAL DE ELECTRICIDAD"		SFE 11	123	54	
			SFEL 9	72,5	10	
			SFE 14-1	245	4	
			SFE 11	123	15	
			SFE 11	123	111	
			SFE 13	123	16	
PAKISTAN	WATER AND POWER DEVELOPMENT AUTHORITY LAHORE		SFE 13	145	115	
			SFE 13	145	120	
			SFE 9	72,5	16	
TURKEY TURSKA	CUCUROVA ELEKTRIKA S ADANA		SFE 13	170	88	
YUGOSLAVIA JUGOSLAVIJA	ELEKTROPRIVREDA		SFE 14-1	245	1	
			SFE 16-2	420	3	
			SFE 11	123	1	
ZAIRE ZAIR	SOCIETE NATIONALE D'ELECTRICITE S.N.E.L KINSHASA		SFE 12	145	4	
ALGERIA ALŽIR	SONELGAZ ALGERIA	PT OULED FAYET	SFE 9	72,5	6	1989
		PT AIN BENIAN			7	
		PT AIN TAYA			7	
		PT ORAN EAST			7	
BRASIL BRAZIL	C.A.E.E.B. BRASIL		SFEL 9	72,5	39	

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Country	Customer	Object-substation	Type	Rated insulation level (kV)	Number of pieces	Year of delivery
HUNGARY MAĐARSKA	METRIMPEX FOREIGN TRADING CO DEPT 814 BUDAPEST		SFE 14-1	145	2	1989
INDONESIA INDONEZIJA	JL. GATOT SUBROTO NO 35 CIMAHI	P.T.TWINK INDONESIA	SFE 13	170	6	
IRAN	ESFAHAN REGIONAL ELECTRIC COMPANY-EREC IRAN	S/S MINADASHT	SFE 14-1	245	4	
		S/S SHAHREZA			4	
		S/S ARDESTAN			4	
		S/S LALEH SPARE			9	
		S/S MINADASHT	SFE 9	72,5	15	
ESFAHAN REGIONAL ELECTRIC COMPANY-EREC IRAN	S/S SHAHREZA	SFE 9	72,5	15		
	S/S ARDESTAN			15		
	S/S LALEH SPARE			15		
MEXICO MEKSIKO	ENERGOMEX-JOINT VENTURE FOR "COMISION FEDERAL DE ELECTRICIDAD"		SFE 11	123	60	
			SFE 14-1	245	5	
PAKISTAN	WATER AND POWER DEVELOPMENT AUTHORITY WAPDA PAKISTAN VIA POTENTIAL ENGINEERS (PVT) LTD. LAHORE THERMAL POWER STATION GUDDU		SFE 13	145	4	
SYRIA SIRIJA	PUBLIC ESTABLISHMENT FOR ELECTRICITY		SFE 14	245	6	
THAILAND TAJLAND	PROVINCIAL ELECTRICITY AUTHORITY-BANGKOK THAILAND THAI MACHUNERY IND.		SFE 11	123	15	
			SFEL 11	123	1	
YUGOSLAVIA JUGOSLAVIJA	ELEKTROPRIVREDA BIH RO HIDROELEKTRANE NA NERETVI JABLANICA		SFEL 11	123	2	
INDONESIA INDONEZIJA	PERSAHAAN UMUM LISTRIK NEGARA (PLN) JAKARTA	S/S TONASA	SFEL 9	72,5	10	1990
			SFE 9	72,5	2	
			SFE 9	72,5	2	
			SFE 13	170	1	
			SFE 13	170	12	
			SFE 9	72,5	18	
IRAN		S/S MORABAKEN-EXT	SFE 9	72,5	4	
LIBAN	ELECTRICITE DU LIBAN ESTABLISHMENT PUBLIC		SFEL 9	72,5	5	
LIBYA LIBIJA	ELECTRICAL PROJECT COMPANY TRIPOLI	S/S GIAREF "2" S/S FOKHA S/S DAPWAT AG	SFE 14-1	245	1	
			SFE 9	72,5	103	
			SFE 9	72,5	6	
			SFE 9	72,5	6	
			SFE 9	72,5	6	

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Country	Customer	Object-substation	Type	Rated insulation level (kV)	Number of pieces	Year of delivery
MALASIA MALEZIJA	LAMBAGA LESTRIK SABAH ELECTRICITY BOARD (SEB)		SFE 13	145	2	
			SFE 9	72,5	4	
MEXICO MEKSIKO	ENERGOMEX-JOINT VENTURE FOR "COMISION FEDERAL DE ELECTRICIDAD"		SFE 13	123	2	
			SFE 11	123	10	
			SFE 11	123	20	
			SFE 14-1	245	1	
			SFEL 9	72,5	6	
PAKISTAN	KARACHI ELECTRIC SUPPLY CORPORATION WAER & POWER DEVELOPMENT AUTHORITY WAPDA		SFE 13	145	15	
			SFE 13	145	6	
			SFE 9	72,5	1	
PHILIPPINES FILIPINI	NATIONAL POWER CORPORATION QUEZON CITY REPUBLIC OF THE PHILIPPINES VIA TOYO MENKA KAISHA LTD. TOKIO JAPAN		SFE 11	123	6	1990
	SFE 9	72,5	2			
THAILAND TAJLAND	THAILAND TAI MACHINERY IND. PROVINCIAL ELECTRICITY AUTHORITY-BANGKOK		SFEL 11	123	2	
			SFE 11	123	4	
USA	MAGNETEK ELECTRIC INC WAUKESHA WISCONSIN		SFEL 9	72,5	1	
YUGOSLAVIA JUGOSLAVIJA	ELEKTROPRIVREDA BIH TERMAL POWER PLANT- KAKANJ SAVSKE ELEKTRANE LJUBLJANA VRHOVO ELEKTROPRIVREDA ELEKTROPRENOS- SARAJEVO SAVSKE ELEKTRANE- LJUBLJANA		SFE 13	123	1	
			SFEL 11	123	3	
			SFE 14-1	245	1	
			SFE 11	123	1	
			SFEL 11	123	9	
ALGERIA ALŽIR	PT ORAN EAST		SFE 9	72,5	12	
CANADA KANADA			SFE 12	145	1	
CZECHOSLOVA KIA ČSSR	Z.S.E. PRAHA		SFE 11	123	1	
INDONESIA INDONEZIJA			SFEL 9	72,5	2	
			SFE 9	72,5	21	
			SFE 13	170	13	
IRAN		S/S MORABAKEN-EXT	SFE 9	72,5	17	1991
LIBAN			SFEL 9	72,5	5	
MALASIA MALEZIJA	LAMBAGA LESTRIK SABAH ELECTRICITY BOARD		SFE 13	170	2	
			SFE 9	72,5	4	
MEXICO MEKSIKO			SFEL 9	72,5	6	
			SFE 11	123	113	
			SFE 14-1	245	1	
PAKISTAN	PAKISTAN VIA POTENTIAL ENGINEERS (PVT) LTD LAHORE		SFE 9	72,5	1	
			SFE 13	170	6	

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<i>Country</i>	<i>Customer</i>	<i>Object-substation</i>	<i>Type</i>	<i>Rated insulation level (kV)</i>	<i>Number of pieces</i>	<i>Year of delivery</i>
PHILIPPINES FILIPINI	NATIONAL POWER CORPORATION QUEZON CITY REPUBLIC OF THE PHILIPPINES VIA TOYO MENKA KAISHA LTD. TOKIO JAPAN		SFE 9	72,5	2	
THAILAND TAJLAND	PROVINCIAL ELETRICITY AUTHORITY		SFEL 11	123	2	
YUGOSLAVIA JUGOSLAVIJA	SAVSKE ELEKTRANE-LJULJANA	S/S HUDO	SFEL 11 SFE 14-1	123 245	1 2	
IRAN		S/S MORABAKEN-EXT	SFE 9	72,5	15	1992
MEXICO MEKSIKO	ENERGOMEX-JOINT VENTURE FOR "COMISION FEDERAL DE ELECTRICIDAD"		SFEL 9	72,5	2	1992
BOSNIA AND HERZEGOVINA BOSNA I HERCEGOVINA	ELEKTROPRIVREDA REPUBLIKE SRPSKE		SFE 11 SFE 14-1	123 245	3 3	1993
BOSNIA AND HERZEGOVINA BOSNA I HERCEGOVINA	ELEKTROPRIVREDA REPUBLIKE SRPSKE		SFE 11 SFE 14-1	123 245	6 2	1994
BOSNIA AND HERZEGOVINA BOSNA I HERCEGOVINA	ELEKTROPRIVREDA REPUBLIKE SRPSKE		SFE 14	245	2	1996
BOSNIA AND HERZEGOVINA BOSNA I HERCEGOVINA	ENERGOINŽENJERING SARAJEVO		SFE 11 SFEL 11	123 123	2 5	1997
MACEDONIA MAKEDONIJA	ASP OHRID ASP EXPORT-IMPORT OHRID		SFE 11	123	5 5	
BOSNIA AND HERZEGOVINA BOSNA I HERCEGOVINA	ENERGOINŽENJERING SARAJEVO		SFEL 11	123	2	1998
YUGOSLAVIA SR JUGOSLAVIJA	EP CRNE GORE NIKŠIĆ		SFEL 11	123	1	
BOSNIA AND HERZEGOVINA BOSNA I HERCEGOVINA	ENERGOINŽENJERING SARAJEVO		SFEL 11	123	9	1999
YUGOSLAVIA SR JUGOSLAVIJA	EP CRNE GORE NIKŠIĆ		SFEL 11	123	1	2000
YUGOSLAVIA SR JUGOSLAVIJA	EP SRBIJE ELEKTROŠUMADIJA		SFEL 11	123	10	2001
BOSNIA AND HERZEGOVINA BOSNA I HERCEGOVINA	SIEMENS Wiena, Power 3		SFE 14	245	4	2003
SERBIA AND MONTENEGRO SRBIJA I CRNA GORA	EP CRNE GORE NIKŠIĆ		SFEL 11 SFE 14	123 245	6 5	2004
SERBIA AND MONTENEGRO SRBIJA I CRNA GORA	EP CRNE GORE NIKŠIĆ		SFEL 11	123	22	2005
	EP SRBIJE	TS VRANJE	SFEL 11	123	2	

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<i>Country</i>	<i>Customer</i>	<i>Object-substation</i>	<i>Type</i>	<i>Rated insulation level (kV)</i>	<i>Number of pieces</i>	<i>Year of delivery</i>