(630 to 6300Amp)

Diconnectors 7.2kV to 40.5kV

For more than 100 years, Mersen has been providing the market with safe, reliable and longer life time off-load disconnectors. These devices offer high performances and robustness for heavy duty requirements with very limited maintenance.

Mersen offers one of the largest product ranges on the market and is the global leader. Mersen has a switch solution that will meet your unique needs.

Our standard HAS High Power Switches are rigorously engineered to meet your technical specifications.

Operation : They can be operated manually, with a pneumatic piston or with an adapted motor (see list) up to 50.000 cycles thanks to fixed cast copper connections.

Phase to Phase distance, Signaling, Terminal Box or Locking system can be studied and customized.

Small making or breaking capacity (on request)

Maximum frequency up to 175Hz

Indoor in a currentless state

Ambient air should not exceed +40°C (otherwise please consult)

Altitude should not exceed 1000 m

Relative humidity should not exceed 95%

List 1 following IEC 62271-1

Features Benefits

- No Load Operation
- Indoor Type Horizontal axis mounting (Vertical under study)
- Configuration with 1, 2, 3 poles (more on request)
- Mechanical endurance : 25.000 less or egual than 1kAmp and 50.000 cycles above 1kAmp (1 cycle = open + close) thanks to its fixed cast copper contacts
- Maximum temperature withstand at 130°C without damage to the switch
- Electrical contact by contact blades with pressed-on Hard Silver Contact Rivets and silver-plated
- Supporting insulators made of cast epoxy resin (fire classification according to UL94-V1)
- Large isolation air and creepage path
- Self-cleaning blade contacts
- True opening and visible distance
- Rugged anti-torsion construction
- Full customisation with :
 - Manual (handle or gear box), motor, pneumatic drives operation
 - Quantity of Auxilary switches, safety blocking magnet, locking devices
 - Dimensions of the disconnector and Fittings/connexions to the busbar
- Installation of the disconnector can be done on the floor, on the wall and at the ceiling as long as the operation axis must stays horizontal

Applications

- Power conversion to disconnect or earth the rectifier or the drives
- High Power Motors

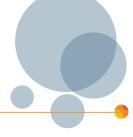


Standards

According to IEC 62271-102

CE





Technical data overview

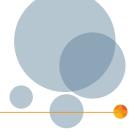
Siz	ze per Standard	HAS 630A to 6300A
Sp	eed/Characteristic	Around 1 sec with pneumatic operation 3 to 4 seconds with motor operation (depend on the rating)
Nu	Imber of Poles	1, 2, 3 or more under study
W	orking Temperature	-20°C to +40°C

Product range

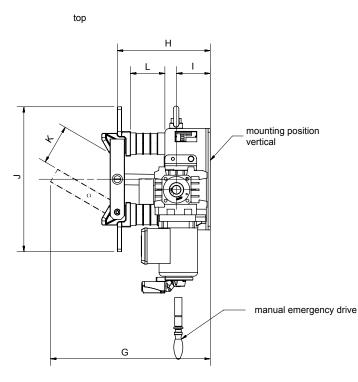
Technical Data

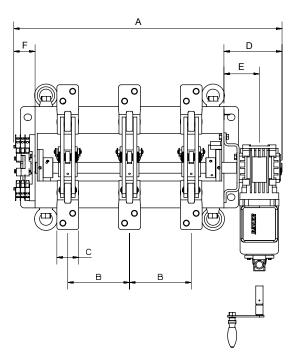
	HAS Range 7.2kV
Number of poles/phases	3
Degree of protection	IP 0
Rated voltage AC	7200 V
Rated impulse withstand voltage BIL Phase to earth and between poles	40 kV
Rated impulse withstand voltage BIL across the insulating distance	46 kV
Dielectric withstand voltage 1min/50Hz Phase to earth and between poles	20 kV
Dielectric withstand voltage 1min/50Hz Across the isolating distance	23 kV
Design	motorized on the right with 3 microswitches
Temperature rise at rated current (°K)	60 ° K
Package	1





Dimensions





bottom

Rated current	Α	в	С	D	Е	F	G	н	1	J	κ	L
630 A	600	160	40	90	42	59	366	223	93	275	100	65
1000 A	600	125	40	142	57	59	325	186	93	288	100	65
1600 A	720	170	60	160	98	59	440	256	93	400	110	65
2000 A	720	220	80	208	100	59	449	267	93	445	110	65

Motors

Motor types	Code	Motor voltage rating
AC Mono	Code A 50Hz Code B 60Hz	
AC 3 phases	Code C 50Hz Code D 60Hz	400VAC 400VAC
DC	Code G	110VDC 220VDC



Customized signaling

This range can be equipped with micro switches offering 10 Amp under 400VAC (or DC13 110VDC 0,5Amp) and 10 million cycles operation.

These microswitches are used to signal the switch position and also to cut the power of the motor when it arrives at the end of its operation.

The disconnectors can be equipped with 1, 2, 3 microswitches (more under study).

Tropicalized version

This range can be designed to be installed in salty atmospheres and in tropical geographical zones using stainless steel and a tropicalized version of motor or microswitches and special paints.

Connection plate adaptation

To adapt the disconnector to the Busbar, we can adapt the orientation of the connecting plates (Vertically or Horizontally)

Manual operation locking

The disconnector in this range have their position secured in Open and Closed (or both) positions using various locking systems for complete security.

- Padlocking (1 padlock diam 6mm)
- Key locking using preferably a Ronis Lock
- Blocking Magnets

Blocking magnets

Blocking magnets are used to guarantee electromechanically the position of the Disconnector using remote control. This operation can be done for one or both position (open and closed).

Blocking magnet can be used missing Voltage or Voltage can be 24VDC, 48VDC, 110VDC, 230VDC and 230VAC (consumption GE40; TGN15; TGN17 between 20 to 45W)

Mers









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Functions

Fast Closing

A spring system can enable the disconnector for a quick make for earthing applications for example

Connection box, Connection Terminal

This Disconnector range can be equipped with a wiring connection terminal or connection box.

Control box

This Disconnector range can be equipped with a control box to operate the disconnector (open and close).



Mechanical Operation Counter

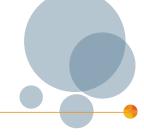
Accessories

Indication facilities

Catalog number	Reference number	Length	Weight kg1)	Package
MECHANICAL OPERATION COUNTER	W110902	63 mm	0,50	1 piece









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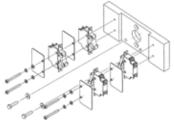




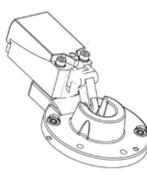




Accessories



D1027229



H820486



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R817113

Microswitches

Catalog number	Reference number	Weight kg¹)	Package
S/E SGN 2 CA SW11	D1030058	0,3	1 piece
S/E SGN 4 CA SW11	D1027229	0,35	1 piece
S/E SGN 6 CA SW11	L1027489	0,4	1 piece
S/E SGN 8 CA SW11	B1028952	0,5	1 piece
S/E SGN CDE DE SECOURS HAS	H820486	0,3	1 piece

Supplementary poles

Catalog	Reference	Rated current I.	Weight	Package
number	number	· · · · · · · · · · · · · · ·	kg¹)	
S/E POLE HAS 630A U28 HH	T830823	630 A	2	1 piece
S/E POLE HAS 1000A U28 HH	X831171	1000 A	4	1 piece
S/E POLE HAS 1600A U28 HH	Y830620	1600 A	6	1 piece
S/E POLE HAS 2000A U28 HH	V833262	2000 A	9	1 piece
S/E POLE HAS 3150A U28 HH	E829361	3150 A	20	1 piece
S/E POLE HAS 4000A U28 HH	R1009830	4000 A	32	1 piece
S/E POLE HAS 6300A U28 HH	S833490	6300 A	42	1 piece

Lubricants

Catalog	Reference	Weight	Package
number	number	kg1)	
Copper Grease	L108501	1	1 piece

Removable handles for emergency manual operation

	5			
Catalog number	Reference number	Length	Weight kg ¹⁾	Package
ARB FLEX SSB-7 1043	P1013646	1.043 m	0,50	1 piece
LIMITING TORQUE MAN D10 L170	Z819305	0.17 m	0,46	1 piece
S/E MANIVELLE D10.2 170	R817113	0.17 m	0,27	1 piece
S/E MANIVELLE D10.2 170 Tropical	N827782	0.17 m	0,27	1 piece
S/E MANIVELLE D10.2 300	Z817143	0.3 m	0,29	1 piece
S/E MANIVELLE D10.2 480	Q822103	0.48 m	0,33	1 piece
S/E MANIVELLE D10.2 600	E834168	0.6 m	0,60	1 piece
S/E MANIVELLE D10.2 1000	L827688	1 m	0,60	1 piece
S/E SGN CDE SECOURS FLEX 1043	W1013652	1.043 m	0,70	1 piece

1) weight in kg per piece or set including package

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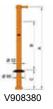
Accessories



G836240



H821728



Manual operation handles

Catalog number	Reference number	Length	Weight kg¹)	Package
S/E MANUAL LEVER D20 LG290	G836240	290 mm	0,50	1 piece
S/E MANUAL LEVER D25 LG290	E834789	290 mm	0,70	1 piece
S/E MANUAL LEVER D30 LG360	J834862	360 mm	0,70	1 piece
S/E EYE LEVER D30/30 L450	H821728	450 mm	0,70	1 piece
ISOLATING STICK L1120 20KV	L820190	1120 mm	0,85	1 piece
ISOLATING STICK L1520 45KV	V908380	1520 mm	1,00	1 piece
ISOLATING STICK L2020 60KV	W908381	2020 mm	1,25	1 piece



1) weight in kg per piece or set including package

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