

INSTRUCTION MANUAL

**SF32N, SF63N,
SF100N, SF160N,
SF200N**

VAULT RANGE
SWITCH-DISCONNECTOR-FUSE

INSTRUCTION MANUAL





Hazards of electric shock and burning. Installation, commissioning and maintenance to be done by qualified personnel only. Always use an appropriate voltage detection device to confirm the absence of voltage. Disconnect the power and isolate before proceeding with any work on this equipment. Use according to the operating instructions, professional practices, wiring rules, codes, safety regulations applicable to the given installation.



Keep fingers away from moving mechanical parts of the mechanism as this may cause serious personal injury.



Interior

SF32N/SF63N/SF100N
SF160N/SF200N

SF BOARD	AMPERAGE	IEC FUSE REF	CED FUSE CODE	DIAMETER in mm	LENGTH in mm	FIXING CENTRES in mm
SF20N	20A	A2	FTIA20A	22	86	73
SF32N	32A	A2	FTIA32A	22	86	73
SF63N	63A	A3	FTIS63A	22	89	73
SF80N	80A	A4	FTCP80A	26	110	94
SF100N	100A	A4	FTCP100A	26	110	94
SF125N	125A	B2	FTF125A	35	137	111
SF160N	160A	B2	FTF160A	35	137	111
SF200N	200A	B2	FTF200A	35	137	111



Carton, padding and the honeycomb can be recycled after removal of the Brass staples from the carton. The polybags and the EPE Buffer (foam-like buffer, white in colour) can be recycled separately.

SELECTION TABLE FOR HANDLE POSITION IN OFF

INSTRUCTIONS

SEEN FROM FRONT OF THE DOOR

SR. NO.	HANDLE (OFF) POSITION	OPERATING QUADRANT (HAND)	SWITCH ORIENTATION	DOOR CUTOUT	HANDLE COUPLING TYPE
1					A
2					B
3					B
4					A
5					A
6					B
7					B
8					A

1. ASSEMBLY DETAILS OF HANDLE COUPLING (TYPE A) ON DOOR FOR Sr. No. 1 POSITION IN SELECTION TABLE ARE EXPLAINED IN SUBSEQUENT PAGES.

2. FOR SELECTING HANDLE OR SWITCH IN ANY OTHER ORIENTATION PLEASE REFER SELECTION TABLE AND NOTE THE CHANGES IN DOOR CUTOUT. SWITCH MOUNTING AND TYPE OF HANDLE COUPLING (A OR B).

3. BEFORE ENGAGING THE HANDLE COUPLING ENSURE THAT BOTH THE SWITCH & THE HANDLE COUPLING ARE IN OFF POSITION AND THE ARROW ON THE LABEL APPEARS IN CLOCKWISE DIRECTION.

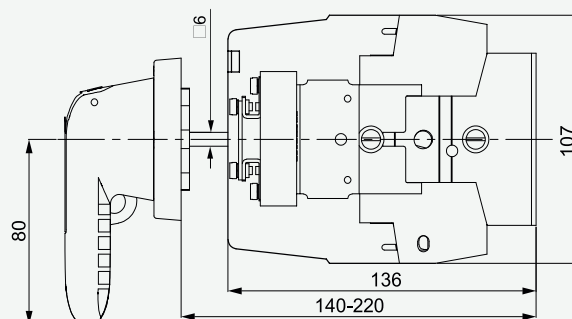
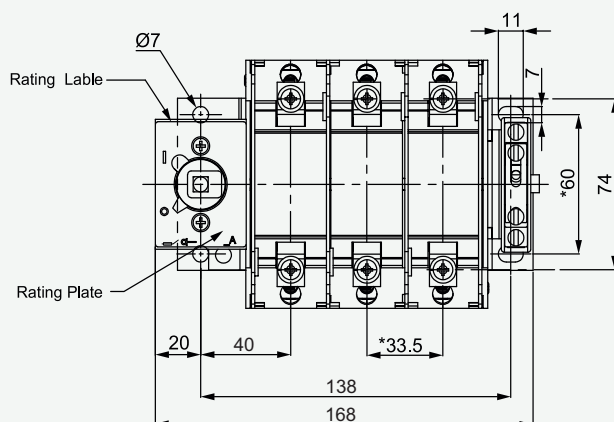
NOTES: ARROW (↑) INDICATES POSITION OF INTERLOCK DEFEAT KEY.

TYPE A: SUPPLIED WITH SWITCH

TYPE B: SUPPLIED ON REQUEST

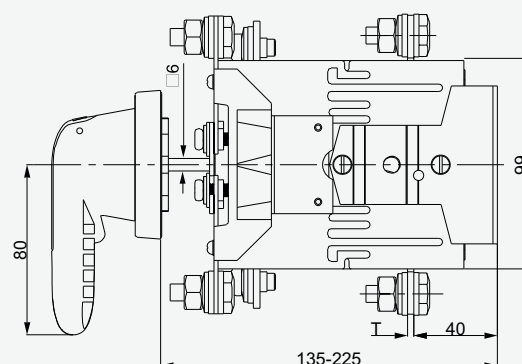
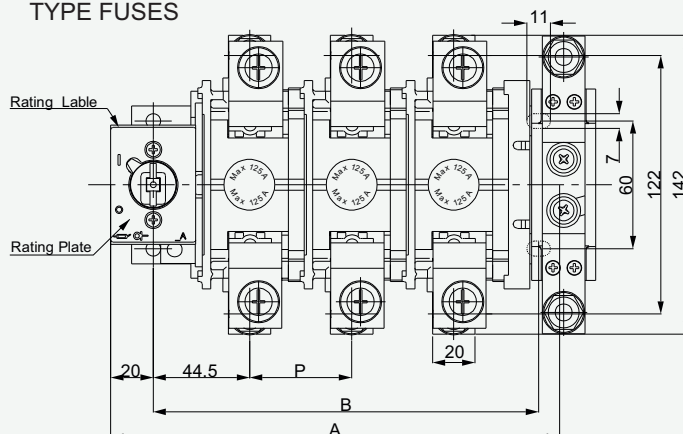
OVERALL DIMENSION

SF32N/SF63N
SUITABLE FOR BOLTED
TYPE FUSES



OVERALL DIMENSION

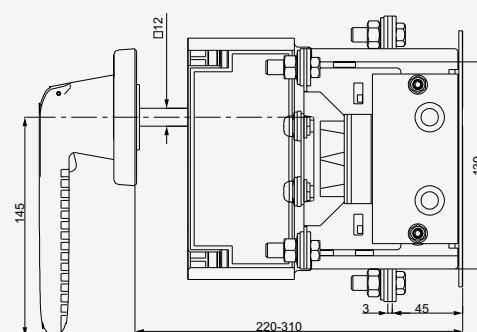
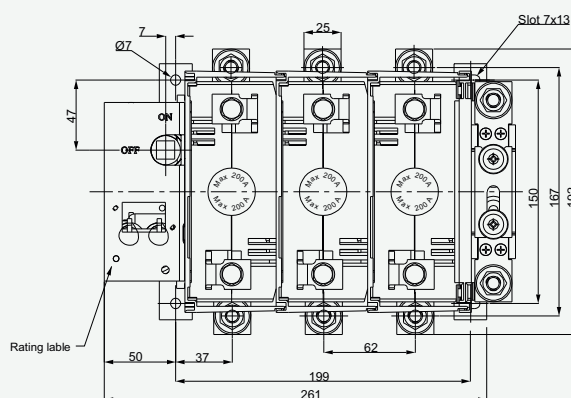
SF100N/SF160N
SUITABLE FOR BOLTED
TYPE FUSES



160A	212	182	48	3
100-125A	190	160	40	2
Rating	A	B	P	T

OVERALL DIMENSION

SF200N
SUITABLE FOR BOLTED
TYPE FUSES



When commissioned, a clearance of 14mm minimum between the following shall be maintained

- Two phases
- Phases and earth
- Phases and neutral



TERMINATION DETAILS

SF32N/SF63N/SF100N/
SF160N/SF200N - TERMINATION CAPACITY

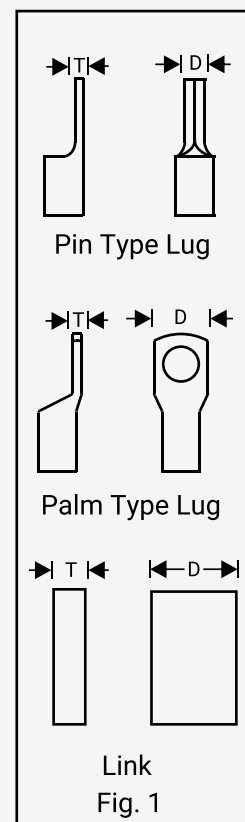
Conductor sizes as per standard		
32A	Cu = 6 mm ²	Al = 10 mm ²
63A	Cu = 16 mm ²	Al = 25 mm ²
100A	Cu = 35 mm ²	Al = 50 mm ²
160A	Cu = 70 mm ²	Al = 120 mm ²
200A	Cu = 95 mm ²	Al = 120 mm ²

TERMINATION	32A/63A (Pin Type Lug)		100A/160A/200A (Palm Type Lug / Link)	
	With Box Clamp		With Box Clamp	
	D(max.)*	T(max.)*	D(max.)*	T(max.)*
Bare conductor	10	-	20	4
Cable with Pin Type Lug	10	3	20	4

RECOMMENDED TIGHTENING TORQUE

RATING	TERMINAL SCREWS	TORQUE, Nm	NEUTRAL(TPN)	TORQUE, Nm
32A	M 6	2.5	-	-
63A 100A 160A 200A	M 8	10.0	M 8	10.0

* Refer Fig.1



"This literature gives information to user about product installation, operation maintenance and disposal. This information is not exhaustive and should customer require further information, in specific cases, customer may contact customer interaction cell."

"The manufacturer assumes no responsibility for injuries, losses, damages to human beings and/or equipments due to inappropriate application of instructions, provided herein."

"Product development is a continuous process. The information given in this literature is subject to change. For latest information the customer may contact customer interaction cell"

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