

FITTING INSTRUCTIONS FOR LOADSWITCH E, F, K, L & N FRAME SKELETON UNITS



1) INSPECTION ON RECEIPT. The following are supplied with each switch:-

HANDLE ASSEMBLY FASTENER KIT HANDLE DRIVE SHAFT

Storage prior to installation must be in clean dry conditions.

2) INSTALLATION PROCEDURE.

INSTALLATION AND OPERATION MUST BE IN ACCORDANCE WITH PUBLISHED DATA, INSTRUCTIONS AND DIAGRAMS AND WITH ANY RELEVANT NATIONAL AND LOCAL REGULATIONS.

A) With the switch in the OFF position, mount as shown overleaf.

The switch may be mounted vertically or horizontally (E frame to be mounted vertically).

Fit the handle drive shaft in to the body of the switch and position it to protrude through the door or cover plate by **40mm +/- 5mm** (see overleaf).

The shaft can be extended by 20mm for the F frame and 35mm for K, L & N frames.

All F frame switches are supplied with a shaft length suitable for an X dimension of 220mm (63A to 125A shaft lengths can be cut by a maximum of 50mm to give an X dimension of 170mm).

Secure the shaft with the grub screw located on the side of the switch (see overleaf). **Recommended torque 1.5Nm.**

Do not operate the switch until the grub screw has been secured.

Switch to be mounted using M4 fixing screws for E frame, M5 for F, K & L frames and M6 for N frame.

B) Mark the position of the operating handle on the door or cover plate and drill **4 holes 5.5mm diameter** and the **centre hole 35mm diameter**.

Fit the operating handle using the screws provided.

C) Ensure that the switch position indicator on the handle corresponds to the switch position indicator on the body of the switch.

Verify the mechanical operation of the switch.

Check the operation of the door interlock (i.e. the door cannot be opened with the switch in the ON position).

D) Fit the required fuse links or isolator links (using fasteners provided).

Check the electrical continuity of the switch.

E) The incoming connection may be made to the terminals at either end of the switch.

Terminal interphase barriers must be fitted when the clearance is less than the figure stated below (not available for E frame).

Barriers are supplied as standard with the N frame switch.

TERMINAL DATA

Frame size	Phase width	Terminal width	Minimum clearance	Terminal hole size
E	18.5mm	8.5mm	10mm	M4
F	35mm	20mm	13mm	M8
K	52.5mm	35mm	16mm	M12
L	70mm	50mm	19mm	M12
N	105mm	80mm	Interphase barrier supplied	2 x M12

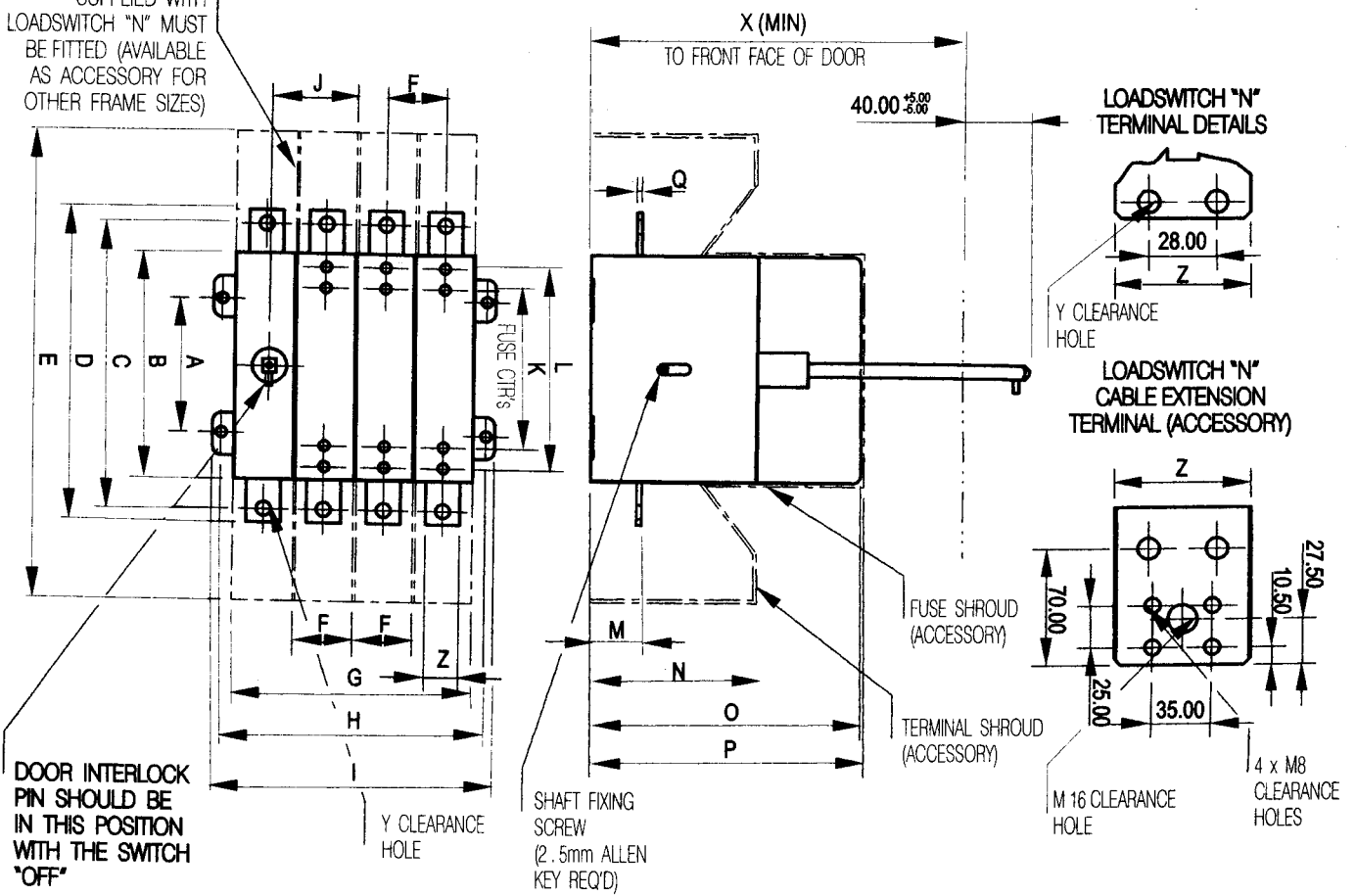
FUSE AND TERMINAL TORQUE VALUES

M4	1.35Nm		
M5	5.5Nm	M10	28Nm
M6	9.5Nm	M12	45Nm
M8	17Nm	M16	91Nm

3) MAINTENANCE

Maintenance must be carried out by competent personnel with supply isolated. However no maintenance of the switch is required except for the periodic checking of the tightness of the terminals and fuse links.

INTERPHASE BARRIER SUPPLIED WITH LOADSWITCH "N" MUST BE FITTED (AVAILABLE AS ACCESSORY FOR OTHER FRAME SIZES)



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	X	Y	Z
LOADSWITCH "E"	82	65	76	89	120	18.5	97	85	110	35	44.5	N/A	33	54	76	99	1.2	66	110	124	M4	20
LOADSWITCH "F" 63A	80	135	170	186	270	35	140	155	165	50	73	N/A	30	98	160	161	3	121	150	170*	M8	20
LOADSWITCH "F" 80-125A	80	135	170	186	270	35	140	155	165	50	94	N/A	30	98	160	161	3	121	150	170*	M8	20
LOADSWITCH "F" 160-200A	80	135	170	186	300	35	140	155	165	50	94	N/A	30	98	196	197	3	121	150	220	M8	20
LOADSWITCH "K"	60	180	220	250	384	52.5	210	225	235	90	111	N/A	45	127	210	212	5	176	150	220	M12	35
LOADSWITCH "L"	60	180	220	250	414	70	280	295	305	125	111	N/A	45	127	210	212	5	176	150	220	M12	50
LOADSWITCH "N"	100	180	235	255	534	105	420	460	475	195	133	184	60	142	240	242	5	176	150	270	M12	80

* NOTE! SHAFT SUPPLIED SUITABLE FOR X DIMENSION OF 220mm

