

# DIN-TYPE OUTDOOR FEEDER PILLAR WITH REAL-TIME LOAD READING FACILITIES

## INTRODUCTION

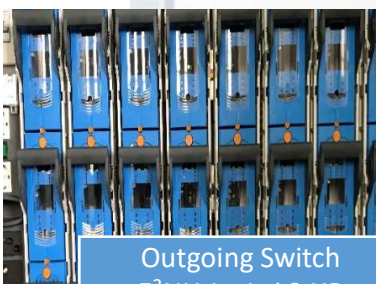
The MEE range of feeder pillars has been tested in an extensive variety of applications and conditions to prove their durability against the rigours of all environments and fulfil the type test of **IEC 61439-2:2011**. MEE has use up the concept of IOT in the pillars by insert the real-time load reading facilities or smart grid interface system to tackles the unsustainable energy consumption. The feeder pillars manufactured from 2.5mm electro galvanized steel sheet of the frame and lifting lug with 6mm mild steel. Standard finishing is powder coated to BS colours with minimum 90 microns. MEE are committed to providing excellent quality and services in finishing stock to ensure the promptest delivery times. The products are designed, manufactured and inspected under stringent Quality Control Systems resulting in products and service levels which comply with, or exceed, the requirements of current legislation and regulations and it achieve the degree of protection with IP33.



Smart Grid Interface  
Module

## ADVANTAGES

- 3-phase monitoring up to 10 low voltage connections
- Monitoring of switchgear cabinet temperature and humidity
- Data immediately accessible using a PC or mobile device via internet connection LAN, OFC, UMTS with SCADA function
- Available of measurement data on portal server, acc. to IEC 60870 and IEC 61850
- DIN-compliant mounting to busbar system of a distribution enclosure or to a mounting panel
- Industrial standard solution for comprehensive roll-out



Outgoing Switch  
E<sup>3</sup>NH-La-Lei 2 HP

- Contact and terminal covers prevent unintentional touching in accordance with BGV A3 regulations.
- All parts in outgoing are made of halogen-free self-extinguish materials with a very high thermal resistance.
- The live parts are treated with tin or silver for minimal contact resistance and performance loss. It also could extend service life



Incoming Switch  
E<sup>3</sup>NH-La-Tr-Lei

- Fuse type using are NH knife-blade fuse-link
- Tube-type Current transformer for vertical design NH fuse-switches
- Vertical-design for safe power distribution and provides electrical properties options for smart power distribution

Description	800 Amps Outdoor Feeder Pillar	1600 Amps Outdoor Feeder Pillar	Outdoor Feeder Pillar (Conventional)
<b>Rated Operational Voltage @ 50 Hz</b>	415 V		Same as Din-type Outdoor Feeder pillar. Detail refer according to 800A and 1600A Feeder Pillar
<b>Rated Insulation Level</b>			
i. Voltage	1000 V		
ii. One minutes Power Frequency Withstand Voltage	12 KV		
<b>Rated Short Time Current Withstand Current (I<sub>scw</sub>)</b>			
i. of main busbar (L1;L2;L3)	31.5 kA, 3 sec		
ii. of incoming unit	20.0 kA, 1 sec		
iii. of neutral busbar	18.9 kA, 3 sec		
iv. of protective circuits	12.0 kA, 1 sec		
<b>Busbar Current Rating</b>	800A	1600A	
<b>Incomer Current Rating</b>	2000A		
<b>Outgoing Current Rating</b>	5 x 400A	8 x 400A	
<b>Frame Work</b>			
i. Material	Galvanized steel		
ii. Thickness	2.5mm		
iii. Colour	TNB Grey with Red & Blue Strips & TNB Logo		
iv. Degree of Protection	IP33		
<b>Dimensions (W X D X H)</b>	1170 X 450 X 1940 mm	1500 X 450 X 1940 mm	
<b>Material &amp; Dimensions of Busbar</b>			
i. Phase Busbars	10mm X 40mm	10mm X 80mm	
ii. Neutral Busbars	10mm X 40mm	10mm X 80mm	
iii. Earth Bar	6mm X 25mm	6mm X 25mm	
<b>Incoming NH-strip type switch-fuse-disconnector</b>			
i. Type and Name of Brand	E <sup>3</sup> NH-La-Tr-Lei, EFEN		
ii. Rated operational current	2000 A		
iii. Rated operational voltage	690 V		
iv. Fitted with	Solid links type NH3/1250 A		
<b>Outgoing NH-strip type switch-fuse-disconnector</b>			
i. Type and Name of Brand	E <sup>3</sup> NH-La-Lei 2 HP, EFEN		
ii. Rated operational current	400A		
iii. Rated operational voltage	690V		
iv. Rated insulation voltage	1000V		
v. Rated impulse withstand voltage	12 kV		
vi. Fitted with	Fuses Type NH2 500V/gG		
<b>Fuse links</b>			
i. Size	NH2		
ii. Type	Gg		
<b>Digital Meter Display</b>	Applicable		Not Applicable
<b>Analogue Ammeter (Max Demand)</b>	Not Applicable		Applicable
<b>Smart Grid Interface Module</b>			Not Applicable
i. Input Voltage	230V		
ii. CPU	IPC@CHIP@ SC145 Embedded Controller		
iii. Operating system	IPC@CHIP@ RTOS-LNX Real-time system		
iv. Real-time Clock	Backed up by a lithium rechargeable battery		
v. Ethernet interface	2 x 10/100BaseT, RJ45 connector, Link		
vi. Serial interface	1 x RS232/RS485, Weidmuller BL 3.50/08 connector		
vii. SD card interface	SD card, SDHC, Push slot		
viii. Wireless interface	Bluetooth		
ix. Environment Sensor	Temperature and humidity indication		
<b>Material of Cable Clamp:</b>			Same as Din-type Outdoor Feeder pillar. Detail refer according to 800A and 1600A Feeder Pillar
i. Incomer / Link Disconnecter	Wood / Nylon	Wood / Nylon	
ii. Outgoing / Fuse Switch Disconnecter	Metal	Metal	
iii. Distance bet cable clamp and floor lever	250 - 320 mm (Zig Zag shape)	250 -320 mm (Zig Zag shape)	
iv. Distance bet cable clamp and neutral bar	500 mm	500 mm	
v. No. of cable clamps for			
a. Incomer Link Disconnecter	1 per nos. / 2 nos.		
b. Outgoing Fuse Switch Disconnecter	5 per nos. / 8 per nos.		
<b>Minimum Clearance of Live Parts</b>			
i. Phase-to-Phase	25 mm		
ii. Phase-to-Earth	19 mm		

For Further Information, Please Contact Us



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