EMS Panels

12.1 EMS Panels

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Product Description

Safety is a top priority in many manufacturing plants. Existing equipment used in manufacturing applications may not have the necessary hardware that minimizes risks associated with operation and maintenance.

The EMS panel provides a simple solution to enhance the safety of existing equipment, minimizing risk to operators and increasing overall safety of the equipment.

Application Description

Most smaller equipment and older equipment are operated by a maintained ON/OFF control switch. A power loss when the control switch in the ON position could result in unprepared or unintended operation when the power is restored. This could put operators at risk.

Additionally, most older or smaller equipment do not include an emergency stop operator, which provides a means to more easily stop the machine operation in the event of an emergency.

Machinery should also be equipped with a disconnect means that can be padlocked in the OFF position during maintenance activities. This prevents operation of the panel while the equipment is being serviced.

The EMS panel is designed to be retrofitted to existing equipment.

Features and Benefits

The EMS panel consists of

- Small control panel
- Pushbutton control station with a whip
- Disconnect means with lock-out capability (provided on primary control panel)
- Motor overload protection (to protect the motor from damage due to overuse or excess heat)
- A pushbutton control station with a four foot whip for easy installation at a location appropriate for the operator's control
  - Pushbutton control station includes a momentary start button (requires equipment to be restarted should a power loss occur)
  - Stop button for normal stopping of the equipment during operation
  - Emergency stop with bold red and yellow colors that is larger than the start/stop operator (allows for increased visibility and access should an emergency occur)

Standards and Certifications

The panel is rated UL508A, and includes a self-protected, combination motor controller.

Additional short-circuit protection (such as fuses or a breaker) is not required.

- UL rated

Need a Similar but More Custom Solution?

Eaton's Control Panel Flex Center can help by designing a specific solution for your needs. For these requests, please contact the Control Panel Flex Center at 216-265-3291.

Product Selection

To select an EMS panel, chose the catalog number from the column of the appropriate circuit voltage and the row with the operational current of the equipment. The equipment voltage and current is typically found on the equipment electrical label or in the equipment manual.

Note: 480V and 600V EMS panels include a control power transformer that steps down the control voltage to 120 Vac.

EMS with Control Station

EMS Panels with Control Station and Whip

	Power Circuit Voltage				
	120 Vac	208 Vac	240 Vac	480 Vac	600 Vac
FLA Size	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number
0.1 to 0.16	EMS03D5ABA	EMS03D5EBA	EMS03D5BBA	EMS03D5CBA	EMS03D5DBA
0.16 to 0.25	EMS03D5ABB	EMS03D5EBB	EMS03D5BBB	EMS03D5CBB	EMS03D5DBB
0.25 to 0.4	EMS03D5ABC	EMS03D5EBC	EMS03D5BBC	EMS03D5CBC	EMS03D5DBC
0.4 to 0.63	EMS03D5ABD	EMS03D5EBD	EMS03D5BBD	EMS03D5CBD	EMS03D5DBD
0.63 to 1	EMS03D5ABE	EMS03D5EBE	EMS03D5BBE	EMS03D5CBE	EMS03D5DBE
1 to 1.6	EMS03D5ABF	EMS03D5EBF	EMS03D5BBF	EMS03D5CBF	EMS03D5DBF
1.6 to 2.5	EMS03D5ABG	EMS03D5EBG	EMS03D5BBG	EMS03D5CBG	EMS03D5DBG
2.5 to 4	EMS03D5ABH	EMS03D5EBH	EMS03D5BBH	EMS03D5CBH	EMS03D5DBH
4 to 6.3	EMS03D5ABJ	EMS03D5EBJ	EMS03D5BBJ	EMS03D5CBJ	EMS03D5DBJ
6.3 to 10	EMS03D5ABK	EMS03D5EBK	EMS03D5BBK	EMS03D5CBK	EMS03D5DBK
8 to 12	EMS03D5ABL	EMS03D5EBL	EMS03D5BBL	EMS03D5CBL	EMS03D5DBL
10 to 16	EMS03H5ABM	EMS03H5EBM	EMS03H5BBM	EMS03H5CBM	EMS03H5DBM
16 to 20	EMS03H5ABN	EMS03H5EBN	EMS03H5BBN	EMS03H5CBN	EMS03H5DBN
20 to 25	EMS03H5ABQ	EMS03H5EBQ	EMS03H5BBQ	EMS03H5CBQ	EMS03H5DBQ
25 to 32	EMS03H5ABR	EMS03H5EBR	EMS03H5BBR	EMS03H5CBR	EMS03H5DBR

EMS "All-in-One"

EMS "All-in-One" Panels

	Power Circuit Voltage				
	120 Vac	208 Vac	240 Vac	480 Vac	600 Vac
FLA Size	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number
0.1 to 0.16	EMS02D5ABA	EMS02D5EBA	EMS02D5BBA	EMS02D5CBA	EMS02D5DBA
0.16 to 0.25	EMS02D5ABB	EMS02D5EBB	EMS02D5BBB	EMS02D5CBB	EMS02D5DBB
0.25 to 0.4	EMS02D5ABC	EMS02D5EBC	EMS02D5BBC	EMS02D5CBC	EMS02D5DBC
0.4 to 0.63	EMS02D5ABD	EMS02D5EBD	EMS02D5BBD	EMS02D5CBD	EMS02D5DBD
0.63 to 1	EMS02D5ABE	EMS02D5EBE	EMS02D5BBE	EMS02D5CBE	EMS02D5DBE
1 to 1.6	EMS02D5ABF	EMS02D5EBF	EMS02D5BBF	EMS02D5CBF	EMS02D5DBF
1.6 to 2.5	EMS02D5ABG	EMS02D5EBG	EMS02D5BBG	EMS02D5CBG	EMS02D5DBG
2.5 to 4	EMS02D5ABH	EMS02D5EBH	EMS02D5BBH	EMS02D5CBH	EMS02D5DBH
4 to 6.3	EMS02D5ABJ	EMS02D5EBJ	EMS02D5BBJ	EMS02D5CBJ	EMS02D5DBJ
6.3 to 10	EMS02D5ABK	EMS02D5EBK	EMS02D5BBK	EMS02D5CBK	EMS02D5DBK
8 to 12	EMS02D5ABL	EMS02D5EBL	EMS02D5BBL	EMS02D5CBL	EMS02D5DBL
10 to 16	EMS02H5ABM	EMS02H5EBM	EMS02H5BBM	EMS02H5CBM	EMS02H5DBM
16 to 20	EMS02H5ABN	EMS02H5EBN	EMS02H5BBN	EMS02H5CBN	EMS02H5DBN
20 to 25	EMS02H5ABQ	EMS02H5EBQ	EMS02H5BBQ	EMS02H5CBQ	EMS02H5DBQ
25 to 32	EMS02H5ABR	EMS02H5EBR	EMS02H5BBR	EMS02H5CBR	EMS02H5DBR