

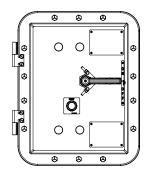
Maximum value.

Faster lead times and flexible applications for any OEM solution.

In the oil and gas industry, you need every advantage you can get to operate efficiently and safely in harsh and hazardous areas.

You need products and solutions that solve real world problems.

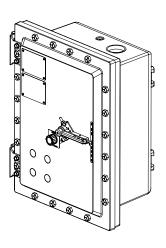
Eaton's Crouse-Hinds Series EIC combination starters are a value series, easy to use and always available solution for panel shops, skid builders and other OEM applications.



Application

Harsh and hazardous motor control environments, including refineries, chemical and petrochemical plants, corrosive process facilities, food and beverage, marine and mining.

Across-the-line starting and stopping of polyphased AC induction motors with overload protection.



Certifications

NEC and CEC:

- Class I, Division 1 & 2, Groups B, C, D
- Class II, Division 1 & 2, Groups E, F, G
- Class III
- UL Standard 1203
- cUL to CSA C22.2 No. 30, No. 25
- NEMA 3, 3R, 4, 4X, 7BCD, 9EFG
- -20°C ≤ Ta ≤ +60°C

IECEx:

- Ex db IIB+H2 Gb
- Ex tb III C Db IP66
- -20°C ≤ Ta ≤ +60°C
- IECEx ETL 13.0022U

ATEX:

- II 2 G D Ex db IIB+H2 Gb
- Ex tb IIIC Db IP66
- -20°C ≤ Ta ≤ +60°C
- ITS13ATEX17813U certified

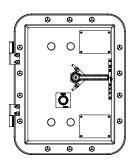
Materials

- Body, cover and handle copper-free aluminum
- Gasket neoprene
- Cover bolts and hinges stainless steel

Why EIC combination starters?

Engineered for OEMs

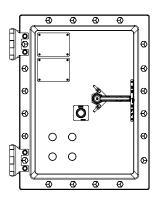
- Two nameplates for easy identification and on site customizing
- Factory drilled and tapped fieldremovable mounting plate
- · Fast lead times
- · Globally certified operators



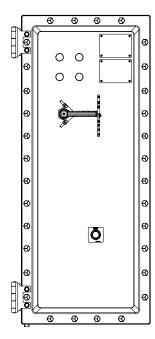
Enclosure: Size A NEMA starter size: 0-2

Multiple designs and options

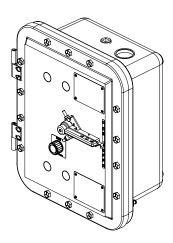
- Available unpopulated for maximum design flexibility and fast lead times
- · Populated versions built to order and shipped fast
- Three enclosure sizes with four operator positions
- Five combination starter sizes
- Factory wiring from breaker to starter provided for populated units



Enclosure: Size B NEMA starter size: 3

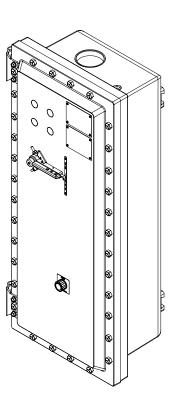


Enclosure: Size C NEMA starter size: 4



Field flexibility

- Factory-machined, drilled, and tapped entries up to three inches in diameter
- UL/cUL certified for field addition of drilled and tapped entries on sides, top, bottom, or back of the enclosure
- Bolt-on/tap-in mounting feet allow for easy field replacement in case of damage or breaking
- ATEX/IECEx certified enclosure option for use in global applications

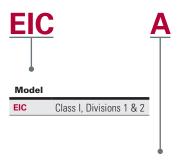


Ordering information

Part number example #1 - populated

EICA-F2W4-J-070-RLN-GLF-PB23-S781

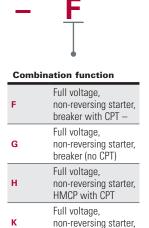
Fully populated EIC enclosure, size A, full voltage non-reversing Eaton starter, breaker with CPT, NEMA size 2, 480 VAC, heater with 70 Amp breaker, red LED "ON" pilot light and green LED "OFF" pilot light, start & stop pushbuttons, single auxiliary contact on starter



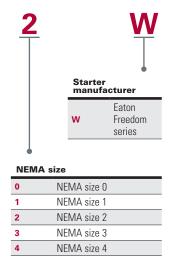
Enclosure size

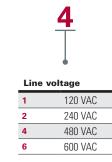
Α	Used with NEMA sizes 0-2
В	Used with NEMA size 3
C	Used with NEMA size 4

^{*}Enclosure size is determined by the NEMA starter size. Refer to the NEMA size chart for the correct size starter, breaker/HMCP.



HMCP (no CPT)

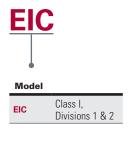


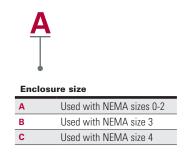


Part number example #2 – unpopulated

EICA ATEX

Unpopulated EIC enclosure, size A, ATEX rated







List operator designations in numerical order.



Refer to the position chart below for reference. **RLN - GLF - PB23**



Heater (FLA)

BLANK	No heater or "ER" option selected		
Α	0.8 - 1.3		
В	1.2 - 2.0		
С	1.8 - 2.9		
D	2.2 - 3.5		
E	3.2 - 5.2		
F	4.6 - 7.4		
G	6.8 - 11.0		
Н	9.1 - 14.0		
J	14.0 - 22.8		
L	23.5 - 38.5		
M	39.6 - 57.4		
N	53.9 - 74.9		
P	8.0 - 11.5		
Q	11.4 - 15.7		
R	14.3 - 19.0		
S	18.0 - 24.5		
T	24.6 - 33.4		
V	33.5 - 45.6		
W	45.7 - 62.1		
X	62.2 - 84.6		
Υ	84.7 - 115		
Z	106 - 144		

Heater trip rating: Standard Trip – Class 20

Breaker*

OR

HMCP*

NEMA size 4 starter

015	15A
020	20A
025	25A
030	30A
035	35A
040	40A
045	45A
050	50A
060	60A
070	70A
080	80A
090	90A
100	100A
110	110A
125	125A
150	150A
175	175A
200	200A

functions F & G: Breakers 15-125A rated 600Y/347 VAC (480 VAC); 150-250A rated

600 VAC.

*Combination

Operators*

003 007	3A 7A		PB23	Start & Stop pushbutton with "START" & "STOP" legend plates (2 operator spaces)
015	15A		RLN	Red LED 120V light w/ "ON" legend plate
030 30A 050 50A 070 70A 100 100A 250 250A *Combination functions H & K: 250A HMCP can only be used with			GLF	Green LED 120V light w/ "OFF" legend plate
			RLB	Red LED 120V pilot light w/ blank legend plate
			GLB	Green LED 120V pilot light w/ blank legend plate
			RR2	2-position selector switch with "ON - OFF" legend plate
		or	RR3	3-position selector switch with HOA

*Refer below for operator locations. Standard operator configurations shown.

legend plate

Options*

BST	Shunt trip 120V		
ER	Electronic overload relay - Solid State (starter)		
HT Ambient compensated breaker (+50°C calibrate			
S214	External ground lug		
S752	External epoxy coating		
S756V	Breather & drain, Class 1, Groups B, C, D		

Options - Space heater

Select one heater option only

R11	Space heater, 25 watts, 120V
R22	Space heater, 25 watts, 240V
R44	Space heater, 25 watts, 480V

Options - Auxiliary contact

Select one contact option only

S781	Auxiliary contact on starter 1NO & 1NC
S782	Auxiliary contact on starter 2NO & 2NC
S783	Auxiliary contact on starter 3NO & 3NC

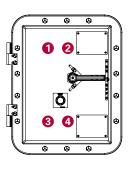
Options - Auxiliary switch

Select one switch option only

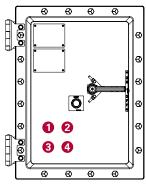
S784	Auxiliary switch on circuit breaker, 1A&1B
S785	Auxiliary switches on circuit breaker, 2A &2 B
S786	8 point terminal block - 30A, 300V

*List selected options in alphanumeric order. Only one option of each type allowed unless otherwise noted.

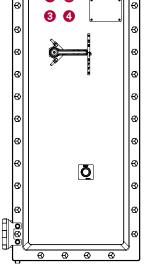
Operator locations



Size A



Size B



0 8

Size C

Electrical ratings

Electrical ratings - starter

NEMA size	СРТ	Phase	Voltage	type
0-2	100VA	Single, 3	- 100\/ 040\/	
3	200VA	3	120V, 240V, 480V or 600V	A600/P300
4	300VA	3	- 4000 01 0000	

^{*}No DC rating on starters. Standard configuration: 3 pole non-reversing starter, 3 pole on breaker and starter

Starter types by enclosure size

Enclosure size	Starter	EIC type	NEMA size
	Eaton Freedom AN16	Standard	
Α	Eaton Freedom AN19	ER option	0-2
	Eaton Space Savings AN13*	ATEX option	_
	Eaton Freedom AN16	Standard	
В	Eaton Freedom AN19	ER option	3
	Eaton Space Savings AN13*	ATEX option	
	Eaton Freedom AN16	Standard	
С	Eaton Freedom AN19	ER opiton	4
	Eaton Space Savings AN13*	ATEX option	

Maximum amperage - breaker/HMCP

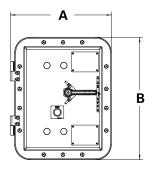
Enclosure size	Breaker/HMCP Type	Maximum amperage recommended (40°C ambient temp.)	Maximum amperage frame limit
	Eaton EG	70	125
Α	Eaton HMCPE	50	100
A	Eaton F-Frame	70	225
	Eaton HMCP	50	150
	Eaton EG	125	125
В	Eaton HMCPE	100	100
ь	Eaton F-Frame	125	225
	Eaton HMCP	100	150
	Eaton JG	200	250
С	Eaton HMCPJ	150	250
	Eaton F-Frame	200	225
	Eaton HMCP	150	150

 $^{^{\}star}$ Unpopulated EIC engineered for use with any breaker/HMCP type listed above as per corresponding enclosure size.

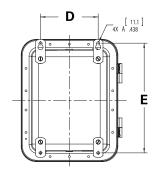
Dimensions

Enclosure size A

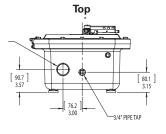
Size A	Α	В	С	D	E
inches	15.74	19.10	10.52	9.00	17.13
[mm]	[399.8]	[485.2]	[267.2]	[228.6]	[435.0]

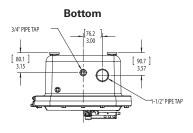






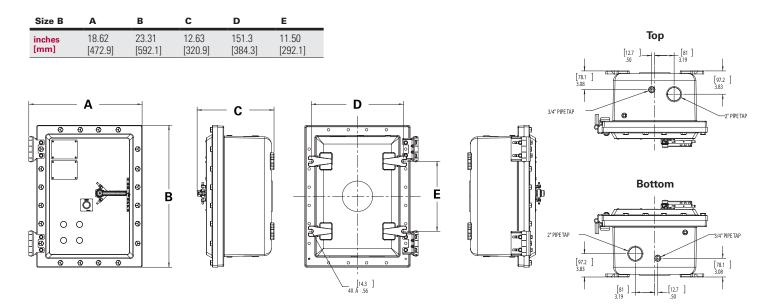






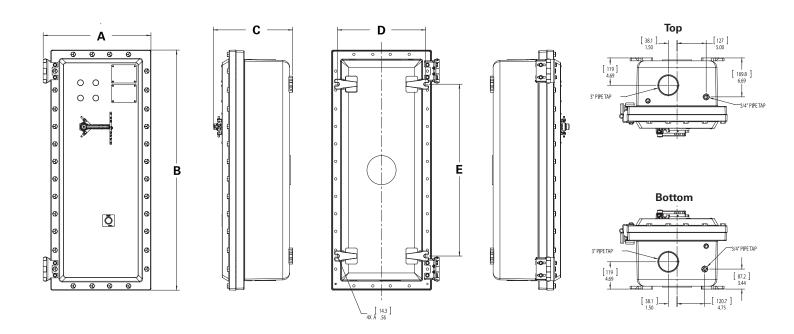
Dimensions

Enclosure size B



Enclosure size C

Size C	Α	В	С	D	E
inches	18.50	41.22	13.59	15.13	29.50
[mm]	[469 9]	[1047]	[345.1]	[384.3]	



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