

### Product Facts

- When the control coil circuit failure, the engine can be started by mechanical handle emergency start.
- The coil terminals are not distinguished from the positive and negative poles, avoid faults caused by incorrect connections
- Hermetically sealed – intrinsically safe, operates in explosive/harsh environments with no oxidation or contamination of coils or contacts, including long periods of non-operation.



### Performance Data

Parameter	Units	Value for EMS Series
Contact Arrangement, power contacts		1 Form X (SPST-NO) Rated
Operating Voltage	VDC	12-24
Continuous (Carry) Current For FM	A	400
Continuous (Carry) Current For UL	A	500
Break Current at 24VDC For FM	A	800
Break Current at 24VDC For UL	A	1,000
Contact Resistance, Typ. (@200A)	mohms	0.2
Load Life	Cycles	≥20,000
Mechanical Life	Cycles	≥30,000
Operate Time @ 25°C		
Close (includes bounce), Typ.	ms	≤ 30
Release (includes arcing), Max @ 2000A	ms	≤ 50
Dielectric Withstanding Voltage	Vrms	1,000 ,1min Insulation
Resistance @ 500VDC	megohms	≥ 100
Shock, 11ms 1/2 sine, peak, operating	G	50
Vibration, sine, 5-50Hz., peak	G	2.5
Operating Ambient Temperature	°C	-40 to +55
Weight, Nominal	kg	2.8

Typical EMS applications include battery switching and back-up, DC voltage power control, circuit protection and safety.

### Part Numbering System

Typical Part Number	EMS	500	A
Product type:			
EMS			
Rated Current:			
500 Amp			
Coil Voltage:			
12 = 12VDC			
24 = 24VDC			

### Coil Operating Voltage (valid over temperature range)

Coil Operating Voltage	Current	Power	Resistance	Pickup (close) Voltage Max.	Dropout (open) Voltage (Min.)	Inrush Time (Max.)
12VDC	7.7A	92.4W	1.7Ω (± 10%)	≥ 75%	≤ 45%	130ms
24VDC	4.4A	105.6W	5.7Ω (± 10%)	≥ 75%	≤ 45%	130ms

Dimensions are in millimeters unless otherwise specified. Values in brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

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## Outline Dimensions

