

Please complete as many fields as possible to the best of your knowledge and return to [AdvRequirementForms@emp-corp.com](mailto:AdvRequirementForms@emp-corp.com).

See the attached README.pdf for explanation of component control options.

Information Completed By  
 Primary EMP or Distributor Contact  
 Property, Company, or Fleet name  
 Location (City, Province/State and Country)

Today's Date

Technical Contact

Phone

E-mail

Administrative Contact

Phone

E-mail

1. What is the intended application? Please describe in detail.  
 Please include project name to be used as a reference for communication with EMP.

2. What is the system operating voltage range?

3. Fan type (Push or Pull – see figure below)?

4. Will the fan need a finger guard?

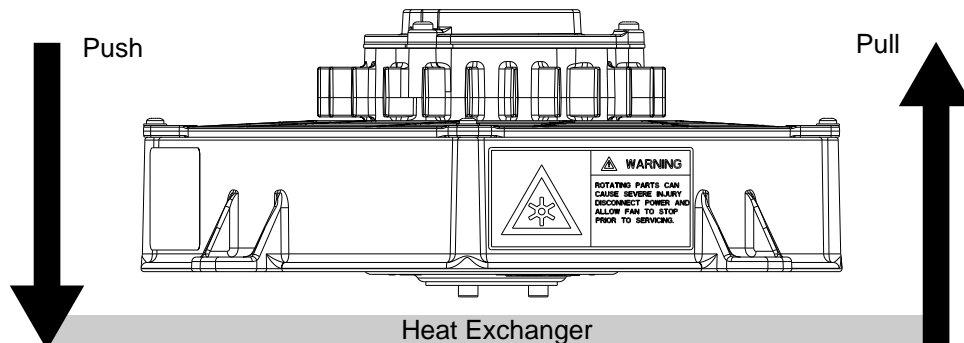
5. What is the air flow required?

6. What is the restriction the fan must push or pull against?

7. What is the maximum current (amps) that will be available to the fan?

8. What will be the operating conditions/ambient air temperatures?

14V nominal (12V DC system) 28V nominal (24V DC system) Other (specify): _____		
Push	Pull	
Yes	No	
Specify Value:		
CFM	m <sup>3</sup> /Hour	Other (specify above)
Unknown		
Specify Value:		
Inches H <sub>2</sub> O	Pa	Other (specify above)
Min:		
		°C
Max:		
		°F



9. Select component control configuration.  
 For CAN communication, also select a control option and whether to configure the component to read an external temperature sensor. Refer to README.pdf when completing the CAN Operation section.

On/off control
Control to PWM input
CAN communication <i>complete CAN Operation section</i> On/off control with CAN status Control to CAN command messages Control to temperature sensor input
Configure fan to read external temperature sensor <i>Cannot be combined with external addressing</i>
1 <sup>st</sup> Sample:
PPAP:
SOP:
Other:

10. Are there any certification requirements?  
 E-Mark, CSA, UL; additional costs may apply for specific certifications.

11. What is the expected annual purchase volume for this product?

12. Please list all important project milestone dates, including date sample fans are required.

13. Any additional application information would also be helpful.

**CAN Operation Questions Apply to CAN Components Only**

The responses to the questions on this page are required to establish the correct software and system part number if you want to use CAN control. If you are early in the development process and not sure of the final setting requirements, please indicate that your answers are tentative or preliminary, but do not leave them blank.

**Message Format Options:** components may use EMP Defined Messages, SAE J1939 Standard Messages, or both together. Enabling both formats increases CAN traffic.

**Enable EMP Messages** Uses Motor Status Message 2 unless Motor Status Message 1 is selected below. Use Motor Status Message 1 For existing applications that require Motor Status Message 1.

**Enable SAE J1939 Standard Messages** requires access to [SAE J1939 Digital Annex](#). Must select a command/status PGN pair.

- Electrified Accessory Propulsion Motor Coolant Fan 3 (29440/64503)
- Electrified Accessory Propulsion Motor Coolant Fan 2 (29696/64504)
- Electrified Accessory Propulsion Motor Coolant Fan 1 (29952/64505)
- Electrified Accessory Power Electronics Coolant Fan 3 (30208/64506)
- Electrified Accessory Power Electronics Coolant Fan 2 (30464/64507)
- Electrified Accessory Power Electronics Coolant Fan 1 (30720/64508)
- Electrified Accessory Motor Command/Status (32000/64513)

**Addressing:**

**Source address** (factory configured/open resistance address – hexadecimal): 0x \_\_\_\_\_

**Enable external addressing** cannot be combined with temperature input:

Short resistance address (hexadecimal): 0x \_\_\_\_\_

Number of components using this calibration expected to share a CAN network? \_\_\_\_\_

Please provide as much information as possible about other EMP controllers that will be operating on shared CAN network (source address, function, etc.):

**Additional Comments:**

Please return this completed form to [AdvRequirementForms@emp-corp.com](mailto:AdvRequirementForms@emp-corp.com).

**EMP Office Use Only**

Resistance	CAN Address	Resistance	CAN Address	Resistance	CAN Address
Open		4.32K ohms		23.2K ohms	
Short		6.65K ohms		40.2K ohms	
1.1K ohms		10.0K ohms			
2.49K ohms		15.0K ohms			

CAN Delay: \_\_\_\_\_ CAN PGN: \_\_\_\_\_ CAN TX PGN: \_\_\_\_\_ Default Speed: \_\_\_\_\_  
 Power Shutdown Time: \_\_\_\_\_ Baud Rate: 250 500 1000 ABR  
 Hardware: \_\_\_\_\_ Software: \_\_\_\_\_  
 Programmed Assembly Part Number: \_\_\_\_\_