INCH-POUND

A-A-50032B
September 10, 1992
SUPERSEDING
A-A-50032A
June 16, 1988

COMMERCIAL ITEM DESCRIPTION

FANS, VENTILATING, PROPELLER

The General Services Administration has authorized the use of this commercial item description in preference to MIL-F-16081.

1. CLASSIFICATION

1.1 Classification. This commercial item description covers propeller ventilating fans for non-hazardous and hazardous locations in the following types, classes, styles, and sizes as specified (see 5.2):

Type I - Non-hazardous location

Class 1 - Direct Drive

Style A - Wall or window mounting

Sizes - 12, 16, 18, 20, and 24 inch (nominal propeller diameter)

Style B - Room or ceiling mounting

Sizes - 16 and 24 inch (nominal propeller diameter)

Class 2 - Belt drive

Style B - Roof or ceiling mounting

Sizes - 24 and 48 inch (nominal propeller diameter)

Beneficial comments, recommendations, additions, deletions, clarifications, etc., and any data which may improve this document should be sent to: Commander, U.S. Army Natick Research, Development, and Engineering Center, ATTN: STRNC-UXT, Natick, MA 01760-5017.

AMSC N/A FSC 4140

Type II - Hazardous location

Class 1 - Direct Drive

Style A - Wall or window mounting

Sizes - 12 and 18 inch (nominal propeller diameter)

Style B - Roof or ceiling mounting

Sizes - 16 and 24 inch (nominal propeller diameter)

1.2 CID based part identification number (PIN). A document based PIN to identify types, classes, styles, and sizes of fans is included in section 5. This identifying numbering procedure is for Government purposes and does not constitute a requirement for the contractor.

2. SALIENT CHARACTERISTICS

2.1 Standards compliance. All cords, wire, plugs, receptacles, fittings, and controls shall conform to the following UL Standards, as applicable:

No. 62 - Flexible Cord and Fixture Wire
No. 498 - Attachment Plugs and Receptacles
No. 507 - Electric Fans
No. 508 - Industrial Control Equipment
No. 698 - Industrial Control Equipment for use in Hazardous (Classified) Locations

2.2 Motor. The motor for the type I fans shall be totally enclosed of the fan duty type, and shall conform to NEMA MG 1. The motor for the type II fans shall be of the explosion proof type for operation in hazardous locations as defined by NFPA No. 70. The motor shall be for continuous operation for the voltage, frequency, and phase characteristics specified (see 5.2).

2.3 Fan characteristics. The fans shall have the characteristics listed below:

Class	Nominal propeller diameter (inches)	Nominal capacity - C.F.M. at zero inches water
1 (direct drive)	12	1000
	16	1600
	18	2500
	20	3200
	24	4700
2 (belt drive)	24	6800
	48	22000

3. QUALITY ASSURANCE

3.1 Certification. The contractor shall certify, and maintain substantiating evidence, that the product offered meets the salient characteristics and requirements of this Commercial Item Description, and that the product conforms to the producer's own drawings, specification, standards, and quality assurance practices. The Government reserves the right to require proof of such conformance prior to first delivery and thereafter as may be otherwise provided for under the provisions of the contract.

3.2 Metric product. Products manufactured to metric dimensions will be considered on an equal basis with those manufactured using inch-pound units, provided they fall within specified tolerances using conversion tables contained in the latest revision of Federal Standard No. 376, and all other requirements of this Commercial Item Description are met. If a product is manufactured to metric dimensions and those dimensions exceed the tolerances specified in the inch-pound units, a request should be made to the contracting officer to determine if the product is acceptable. The contracting officer has the option of accepting or rejecting the product.

3.3 Regulatory requirements. The offeror/contractor is encourages to use recovered materials in accordance with Public Law 94-580 to the maximum extent practicable.

4. PACKAGING

4.1 Commercial packaging. Each fan shall be cleaned, preserved, and packaged in accordance with ASTM D 3951.

4.1.1 Commercial packing. The fan shall be packed in accordance with ASTM D 3951.

4.2 Export packaging. Each fan shall be cleaned, preserved, and cushioned to protect against corrosion, deterioration, and physical damage during shipping and storage.

4.2.1 Export packing. Each complete fan shall be packed in a snug-fitting fiberboard shipping container conforming to style optional, type CF (variety SW) or SF, class domestic, minimum grade 200 of PPP-B-636. The contents of each shipping container shall be immobilized to prevent movement or damage during transit. When specified (see 5.2), shipping containers shall be palletized in accordance with MIL-STD-147.

4.3 Marking (commercial and export). Marking of shipping containers and unit loads shall be in accordance with MIL-STD-129 or ASTM D 3951, as applicable.

5. NOTES

5.1 Intended use. The fans are intended to be used to exhaust air in light pressure applications. The fans are not intended for use with duct work.

5.2 Acquisition requirements. Acquisition documents must specify the following:

a. Title, number, and date of this document.
b. Type, class, style, and size of fan required (see 1.1).
c. Voltage, frequency, and phase characteristics of power source required (see 2.2).
d. When palletization is required (see 4.2.1).

5.3 Sources of documents.

5.3.1 Sources of Government documents. Copies of military and federal documents are available from:

Standardization Documents Order Desk
Building 4D
700 Robbins Avenue
Philadelphia, PA 19111-5094

5.3.2 Sources for nongovernment association documents.

ASTM D 3951 - Standard Practice for Commercial Packaging, is available from:

The American Society for Testing and Materials (ASTM)
1916 Race Street
Philadelphia, PA 19103-1187

NEMA MG 1 - Motors and Generators, is available from:

The National Electrical Manufacturers Association (NEMA)
2101 L Street, NW, Suite 300
Washington, DC 20037

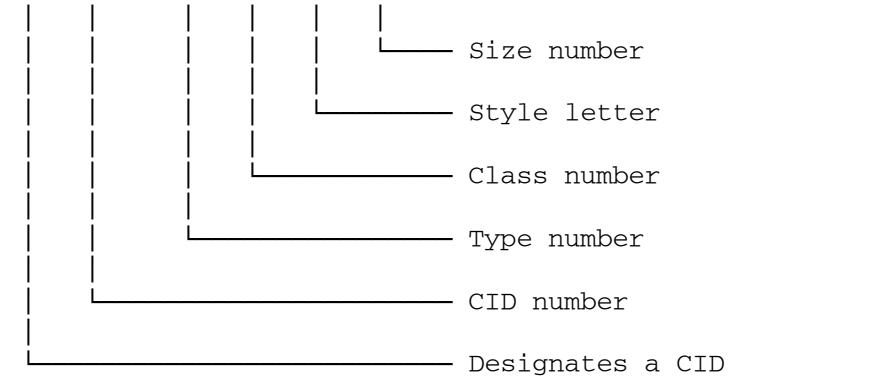
NFPA No. 70 - National Electrical Code, is available from:

The National Fire Protection Association (NFPA)
1 Batterymarch Park
Quincy, MA 02269-9101

UL Standard Nos. 62, 498, 507, 508, and 698 are available from:

The Underwriters Laboratories Inc. (UL)
333 Pfingsten Road
Northbrook, IL 60062

5.4 Part identification number (PIN). The PIN's to be used for items required by this CID are created as follows:



MILITARY INTERESTS:

Custodians

Army - GL
Navy - YD
Air Force - 99

Review activities

Army - ME
Air Force - 82
DLA - GS

User activity

Army - CE

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - FSS

PREPARING ACTIVITY:

Army - GL

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