



HUBBELL INCORPORATED (Delaware)
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KILLARK

**INSTALLATION, OPERATION &
MAINTENANCE DATA SHEET**
SERIES USF ENCLOSURES
Increased Safety Enclosures For Use In Zone
Classified Hazardous Locations



SERIES USF EMPTY ENCLOSURES
Increased Safety Enclosures For Use In
Zone* Classified Hazardous Locations

* - Suitable For Use In Division Classified Locations Based On
Equivalency - See North American Certification Ratings Below



1. General Safety Information:

English

French / Spanish / Portuguese / German

CAUTION:

Before installing, make sure you are compliant with area classifications, failure to do so may result in bodily injury, death and property damage. Do not attempt installation until you are familiar with the following procedures. All installation must comply with the applicable Electrical Code.

Make sure that the circuit is De-energized before starting installation or maintenance.

Verify that the installation is grounded. Failure to ground will create electrical shock hazards, which can cause serious injury and or death.

IMPORTANT:

Please read these instructions carefully before installing or maintaining this equipment. Good electrical practices should be followed at all times and this data should be used as a guide only.

Technical information, advice and recommendations contained in these documents is based upon information that Killark believes to be reliable. All the information and advice contained in these documents is intended for use only by persons having been trained and possessing the requisite skill and know-how and to be used by such persons only at their own discretion and risk. The nature of these instructions is informative only and does not cover all of the details, variations or combinations in which this equipment may be used, its storage, delivery, installation, check out, safe operation and maintenance. Since conditions of use of the product are outside of the care, custody and control of Killark, the purchaser should determine the suitability of the product for his intended use, and assumes all risk and liability whatsoever in connection therewith.



English

French/Spanish/German/Portuguese

2. Application Information

a: The enclosure forms the basis for certification of a unit or protection system for use in hazardous areas other than Zone 0 (Class I Div. 1).

b: All internal components mounted in this enclosure should be Certified (Listed Or Recognized) for the application and installed in accordance with the component manufacturer's installation instructions.

c: A complete Junction Box or Control Station should be certified by a 3rd party to the applicable product safety Standard(s), and all supply wiring methods (including grounding) shall be in accordance with the local/jurisdictional electrical code(s).

d.: A 1/4-20 UNC (M6) ground / earthing stud is supplied on all Series SJICH and SJICH stainless steel enclosures.

e: To maintain proper IP ratings, be sure to follow all mfr's. mounting instructions when installing certified cable glands or conduit entries.

f: Maintenance on the end product should be carried out by authorized and trained personnel only. Following any maintenance, the enclosure gasket must be checked for damage before the cover is replaced / reinstalled.

Warning: Enclosures **must be** installed in the upright vertical position only. Mounting the enclosures in a horizontal position could cause a fire or explosion due to excessive dust / heat build-up.



**SERIES USF
HINGED COVER ENCLOSURE**

CATALOG LOGIC

USF **12 12 06** ***** **U** **12** *****
1 2 3 4 5 6

1. SERIES DESIGNATOR
2. ENCLOSURE SIZE - L x W x D (inches)
3. MATERIAL
Blank = 316 Stainless Steel
S = 304 Stainless Steel
C = Carbon Steel (Painted)
4. COMPONENT INDICATOR (Empty Enclosure)
5. GLAND PLATE LOCATOR
0 = None 1 = Bottom 2 = LHS 3 = Top 4 = RHS
6. OPTIONS (See Catalog)



3. Enclosure Installation Instructions

a: Using a screwdriver with a #2 Phillips Head, a Standard Slotted or Robertson style head, remove the cover screws. Securely fasten the enclosure to the mounting location, using up to a 1/4" (M6) diameter steel bolt and washer. The mounting location must be flat and provide proper clearance, rigidity and strength to support the enclosure and all contained devices. Mounting dimensions are shown in this document.

b: Install Internal Components per the Mfrs. installation instructions.

c: Care shall be taken by the end-use product manufacturer to ensure proper separation of circuits (voltages), and spacings (creepage and clearance distances between live parts of opposite polarity, and between all live parts and dead metal) are maintained. Refer to IEC/EN/UL/CSA 60079-7, Table 2, for minimum Increased Safety creepage and clearance distances.

d: Grounding connections are available at the din rail, earth continuity plate and internal- external ground stud.

e: Bonding connections are available on covers and boxes of all enclosures. All exposed metal should be bonded per local electrical codes.

f: Closing / Installing the enclosure cover: *Apply a light coating of Killark "LUBG" lubricant to the box flange before closing the cover.* Thread each cover screw half way into the threaded insert without completely tightening in a diagonal pattern. Then complete installation of cover by tightening screws in the same diagonal pattern to a minimum torque of 3 Nm (26 lb-ins.) to a maximum of 4 Nm (35 lb-ins.). *A consistent fit over the entire length of the cover joint should be verified at the time of installation.*

g: This enclosure is provided without cable glands or conduit sealing devices. Proper selection of cable glands or conduit sealing devices must occur in the field.

h: Cable fittings must be certified "Ex e" components per EN 60079-7. For lines which are not permanently installed, only cable fittings appropriate for this purpose can be used. They are to be protected from loosening and locked against rotation, i.e. clips, cemented, etc., per EN 60079-7. The operating (service) temperature of the enclosure is limited to the temperature of the gland fitting if less than the enclosure.

i: Killark KDE series drain and breather may be installed. The operating temperature of the enclosure is limited to the temperature of the drain and breathers if lower than the enclosure's. **Other drain and breathers may be installed, the user is responsible for ensuring that the protection concept, temperature class and relevant IP rating is maintained.**

j: All unused conduit openings must be fitted with a certified close-up plug of equivalent minimum required IP rating as required.

DO NOT OVERTIGHTEN OR USE AN IMPACT TOOL.



4. Maintenance Instructions:

WARNING: Before servicing the enclosure, to be certain the electrical power is OFF and LOCKED OUT..

WARNING: Enclosures that are powder coated have a potential electrostatic charging hazard. Wipe the enclosure down with a moist cloth before servicing.

a: After installation, the unit should be inspected at regular intervals to verify the cover is tight; that all conduit or gland connections are intact and free of corrosion and that the enclosure mounting bolts are tight and in good condition.

b: Inspect flanged surfaces of the box and of the cover gasket. Surfaces must be free of nicks, dirt or any foreign particle build-up that would prevent a proper seal. Check hinges to ensure they are improper working order.

c: Should the surfaces be damaged, consult factory. Never attempt to rework the surfaces in the field. Surfaces must seat fully against each other to provide the proper joint.

d: Apply a light coating of Killark "LUBG" lubricant to the box flange before closing the cover. All cover screws must be installed tightly (25 to 36 lb-ins.) to ensure the joint between the box and cover is sealed prior to powering the unit. An improper joint can result in an explosion with the possibility of physical injury and property damage.

e: USF hinged covers are permanent and are not field removable or replaceable. Prior to securing the cover add lubrication to the hinge pin to aid in operation and the free movement of the cover
Important: Care is to be taken opening the cover to help prevent accidental damage to the cover and cover gasket. Never apply excess force to the cover when closing the hinged cover. Never hammer the cover, this will deform the covers and possibly reduce the protection level of the enclosure.

5. Conditions For Safe Use:

a: The range of enclosures shall only be used in a service temperature range of -55 °C to +135 °C.

WARNING: Enclosures that are powder coated have a potential electrostatic charging hazard. Wipe the enclosure down with a moist cloth before servicing.



6. Certification Information

North American Certifications:

Zone 21 AEx tb IIIC Db IP66 (U.S.)
Ex tb IIIC Db IP66 (CAN)
Class II, Zone 21 & 22
Class II, Groups E, F, G
Class III
Type 4/4X
Service Temperature: -55 °C to +135 °C

Standards Applied:

CSA 60079-0: 2nd Edition
UL 60079-0: 6th Edition
CSA 60079-7: 1st Edition
UL 60079-7: 4th Edition
CSA 60079-31: 1st Edition
UL 60079-31: 1st Edition
CSA No. 94.1 / 94.2 / No. 14
UL50 / UL50E
IEC 60529 Ed. 2.2 B:2013

IEC / ATEX Certifications:

ATEX Ratings:

CE 0539 Ex II 2 G Ex e IIC Gb
II 2 D Ex tb IIIC Db IP66
SIRA 14 ATEX 3156U

IECEx Ratings:

II 2 G Ex e IIC Gb
II 2 D Ex tb IIIC Db IP66
IECEx SIR14.0053U

Standards Applied:

EN 60079-0:2012
IEC 60079-0:2011 Ed. 6.0
EN 60079-7 : 2007
IEC 60079-7:2006-07 Ed. 4
IEC 60079-31:2013st Ed. 2

7. Labels / Nameplates

To maintain the IP (Ingress Protection) levels and the NEMA / TYPE ratings of the Series USF enclosures, end-product nameplates or label & tag mounting holes must **not penetrate the interior of the enclosure.**

8. Earthing (Grounding) :

The earth connection accepts a cable lug. The cable must be run and fixed near to the enclosure. The earth connection must be made in all circumstances.

9. Conduit Hub & Cable Gland Installation:

Conduit hubs and cable gland sizes may be mixed. The maximum number of hubs or cable glands must be selected such that the walls are not weakened nor the enclosure stability affected .

See Figure 1 below, and Tables 1 - 7 below for Enclosure Mounting Hole Locations, Conduit and Gland Opening and Spacing Details, and Max. Power / Wattage Dissipation Allowed (For Calculating T-Codes).



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TABLE 1 - Minimum Distance - From Edge of Enclosure to Center of Conduit / Cable Entry

NPT (Metric)	4"	3-1/2"	3" (M75)	2-1/2" (M63)	2" (M50)	1-1/2" (M40)	1-1/4" (M32)	1" (M25)	3/4" (M20)	1/2" (M16)
IN. (mm)	2-3/4 (70)	2-1/2 (64)	2 (51)	2 (51)	1-5/8 (41)	1-3/8 (35)	1-1/4 (32)	1 (25)	7/8 (22)	3/4 (19)

TABLE 2 - Minimum Distance - From Edge of Gland Plate to Center of Conduit / Cable Entry

NPT (Metric)	4"	3-1/2"	3" (M75)	2-1/2" (M63)	2" (M50)	1-1/2" (M40)	1-1/4" (M32)	1" (M25)	3/4" (M20)	1/2" (M16)
IN. (mm)	3-1/4 (83)	3 (76)	2-3/4 (70)	2-1/2 (64)	2-1/8 (54)	1-7/8 (48)	1-3/4 (44)	1-1/2 (38)	1-3/8 (35)	1-1/4 (32)

TABLE 3 - CEC / NEC Minimum Wire Bending Space - From Inside Wall of Enclosure (North America Applications Only)

Size AWG (mm ²)	16 (1.5)	14 (2.5)	12 (4)	10 (6)	8 (10)	6 (16)	4 (25)	2 (35)	1/0 (50)	2/0 (70)	3/0 (95)	4/0 (120)
IN. (mm)	1.5 (38)	1.5 (38)	1.5 (38)	1.5 (38)	1.5 (38)	2 (51)	3 (76)	3.5 (89)	5.5 (140)	6 (152)	6.5 (164)	7 (178)

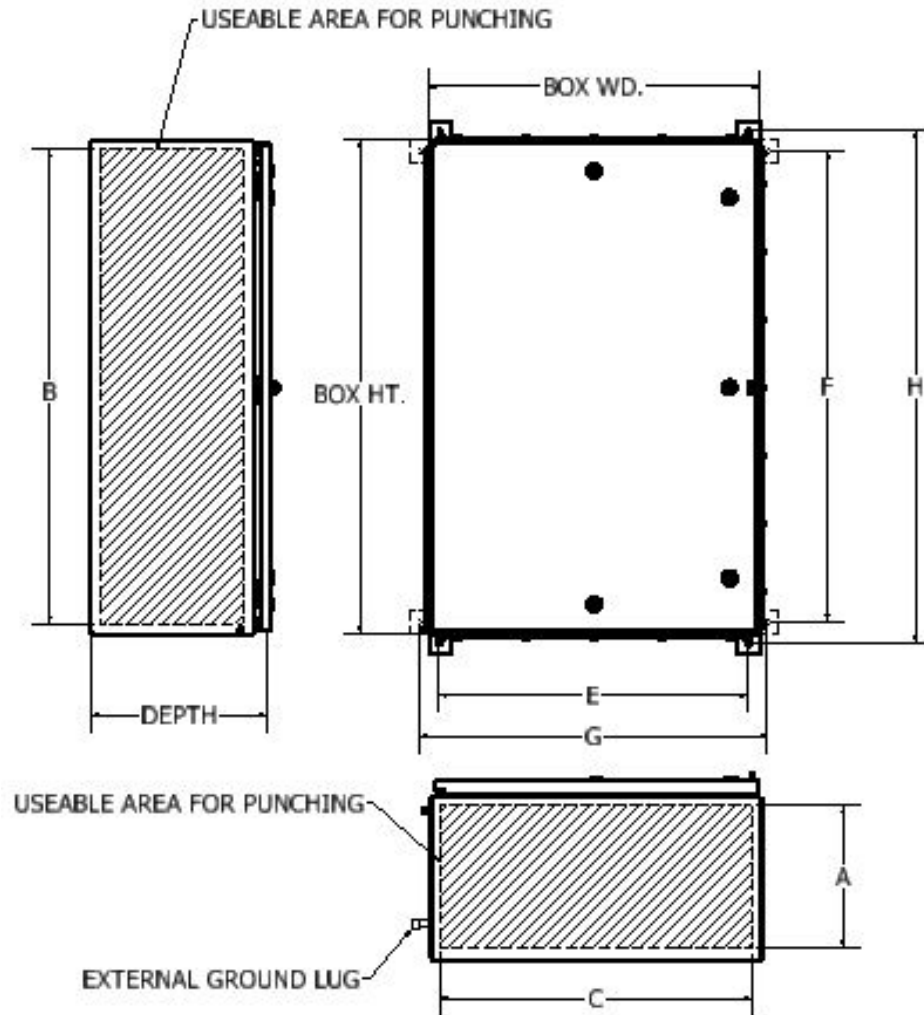
TABLE 4 - Conduit / Cable Gland Hole Diameters - For additional sizes, please contact Customer Service

NPT	4"	3-1/2"	3"	2-1/2"	2"	1-1/2"	1-1/4"	1"	3/4"	1/2"
Max. Hole Dia. IN. (mm)	4.53 (115.06)	4.03 (102.36)	3.53 (89.66)	2.905 (73.79)	2.405 (61.08)	1.93 (49.2)	1.69 (42.93)	1.345 (34.16)	1.08 (27.4)	.87 (22.09)
Metric	M100	M80	M75	M63	M50	M40	M32	M25	M20	M16
Max. Hole Dia. mm (IN.)	100.7 (3.94)	80.7 (3.15)	75.7 (2.95)	63.7 (2.48)	50.7 (1.97)	40.7 (1.58)	32.7 (1.26)	25.7 (0.98)	20.7 (0.79)	16.7 (0.63)

TABLE 5 - Minimum Distance - From Center Line to Center Line of Conduit / Cable Entries

(NPT)	4	3 1/2	3	2 1/2	2	1 1/2	1 1/4	1	3/4	1/2
[METRIC]	[M100]	[M80]	[M75]	[M63]	[M50]	[M40]	[M32]	[M25]	[M20]	[M16]
1/2	3 5/8 [92mm]	3 3/8 [86mm]	3 1/8 [80mm]	2 3/4 [70mm]	2 1/2 [64mm]	2 1/4 [58mm]	2 1/8 [54mm]	1 7/8 [48mm]	1 3/4 [45mm]	1 5/8 [41mm]
3/4	3 3/4 [96mm]	3 1/2 [89mm]	3 1/4 [83mm]	2 7/8 [74mm]	2 5/8 [68mm]	2 3/8 [60mm]	2 1/4 [58mm]	2 [51mm]	1 7/8 [48mm]	
1	3 7/8 [99mm]	3 5/8 [92mm]	3 3/8 [86mm]	3 [77mm]	2 3/4 [70mm]	2 1/2 [64mm]	2 3/8 [60mm]	2 1/8 [54mm]		
1 1/4	4 1/8 [105mm]	3 7/8 [99mm]	3 1/2 [89mm]	3 1/4 [83mm]	3 [77mm]	2 3/4 [70mm]	2 1/2 [64mm]			
1 1/2	4 1/4 [108mm]	4 [102mm]	3 3/4 [96mm]	3 3/8 [86mm]	3 1/8 [80mm]	2 7/8 [73mm]				
2	4 3/4 [121mm]	4 1/2 [115mm]	4 [102mm]	3 5/8 [92mm]	3 3/8 [86mm]					
2 1/2	4 7/8 [124mm]	4 5/8 [118mm]	4 1/4 [108mm]	3 7/8 [99mm]						
3	5 1/4 [134mm]	5 [127mm]	4 5/8 [118mm]							
3 1/2	5 3/4 [147mm]	5 1/2 [140mm]								
4	6 1/4 [159mm]									

FIGURE 1 - USF (HINGED COVER) - (See Table 6 and 7 below)



Note: The maximum hole size for enclosure depths of 6" (153mm) through 20" (508mm) and with blank walls is a 4" NPT (M100). The maximum hole size for enclosure with a depths of 6" (153mm) and with gland plate cut outs is 3"NPT (M75). The maximum hole size for enclosure depths of 8" (203mm) through 20" (508mm) and with gland plate cut outs is 4" NPT (M100).



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TABLE 6 - USF OVERALL DIMENSION CHART

Catalog Number	Height in. (mm)	Width	Depth	"E"	"F"	"G"	"H"
USF121206	12 (305)	12 (305)	6 (153)	10.69 (272)	10.69 (272)	13.63 (346)	13.63 (346)
USF161206	16 (407)	12 (305)	6 (153)	10.69 (272)	14.69 (373)	13.63 (346)	17.63 (448)
USF161208	16 (407)	12 (305)	8 (203)	10.69 (272)	14.69 (373)	13.63 (346)	17.63 (448)
USF161210	16 (407)	12 (305)	10 (254)	10.69 (272)	14.69 (373)	13.63 (346)	17.63 (448)
USF161606	16 (407)	16 (407)	6 (153)	14.69 (373)	14.69 (373)	17.63 (448)	17.63 (448)
USF161608	16 (407)	16 (407)	8 (203)	14.69 (373)	14.69 (373)	17.63 (448)	17.63 (448)
USF161610	16 (407)	16 (407)	10 (254)	14.69 (373)	14.69 (373)	17.63 (448)	17.63 (448)
USF201606	20 (508)	16 (407)	6 (153)	18.69 (475)	14.69 (373)	21.63 (549)	17.63 (448)
USF201608	20 (508)	16 (407)	8 (203)	14.69 (373)	18.69 (475)	17.63 (448)	21.63 (549)
USF201610	20 (508)	16 (407)	10 (254)	14.69 (373)	18.69 (475)	17.63 (448)	21.63 (549)
USF202006	20 (508)	20 (508)	6 (153)	14.69 (373)	18.69 (475)	17.63 (448)	21.63 (549)
USF202008	20 (508)	20 (508)	8 (203)	18.69 (475)	18.69 (475)	21.63 (549)	21.63 (549)
USF202010	20 (508)	20 (508)	10 (254)	18.69 (475)	18.69 (475)	21.63 (549)	21.63 (549)
USF202012	20 (508)	20 (508)	12 (305)	18.69 (475)	18.69 (475)	21.63 (549)	21.63 (549)
USF241606	24 (610)	16 (407)	6 (153)	14.69 (373)	22.69 (576)	17.63 (448)	25.63 (651)
USF241608	24 (610)	16 (407)	8 (203)	18.69 (475)	18.69 (475)	21.63 (549)	21.63 (549)
USF241610	24 (610)	16 (407)	10 (254)	14.69 (373)	22.69 (576)	17.63 (448)	25.63 (651)
USF242006	24 (610)	20 (508)	6 (153)	14.69 (373)	22.69 (576)	17.63 (448)	25.63 (651)
USF242008	24 (610)	20 (508)	8 (203)	18.69 (475)	22.69 (576)	21.63 (549)	25.63 (651)
USF242010	24 (610)	20 (508)	10 (254)	18.69 (475)	22.69 (576)	21.63 (549)	25.63 (651)
USF242012	24 (610)	20 (508)	12 (305)	18.69 (475)	22.69 (576)	21.63 (549)	25.63 (651)
USF242406	24 (610)	24 (610)	6 (153)	18.69 (475)	22.69 (576)	21.63 (549)	25.63 (651)
USF242408	24 (610)	24 (610)	8 (203)	22.69 (576)	22.69 (576)	25.63 (651)	25.63 (651)
USF242410	24 (610)	24 (610)	10 (254)	22.69 (576)	22.69 (576)	25.63 (651)	25.63 (651)
USF242412	24 (610)	24 (610)	12 (305)	22.69 (576)	22.69 (576)	25.63 (651)	25.63 (651)
USF242416	24 (610)	24 (610)	16 (407)	22.69 (576)	22.69 (576)	25.63 (651)	25.63 (651)
USF242420	24 (610)	24 (610)	20 (508)	22.69 (576)	22.69 (576)	25.63 (651)	25.63 (651)
USF302008	30 (762)	20 (508)	8 (203)	22.69 (576)	22.69 (576)	25.63 (651)	25.63 (651)
USF302010	30 (762)	20 (508)	10 (254)	18.69 (475)	28.69 (729)	21.63 (549)	31.63 (803)
USF302408	30 (762)	24 (610)	8 (203)	18.69 (475)	28.69 (729)	21.63 (549)	31.63 (803)
USF302410	30 (762)	24 (610)	10 (254)	22.69 (576)	28.69 (729)	25.63 (651)	31.63 (803)
USF302412	30 (762)	24 (610)	12 (305)	22.69 (576)	28.69 (729)	25.63 (651)	31.63 (803)
USF302420	30 (762)	24 (610)	20 (508)	22.69 (576)	28.69 (729)	25.63 (651)	31.63 (803)
USF303008	30 (762)	30 (762)	8 (203)	22.69 (576)	28.69 (729)	25.63 (651)	31.63 (803)
USF303010	30 (762)	30 (762)	10 (254)	28.69 (729)	28.69 (729)	31.63 (803)	31.63 (803)
USF303012	30 (762)	30 (762)	12 (305)	28.69 (729)	28.69 (729)	31.63 (803)	31.63 (803)
USF362408	36 (915)	24 (610)	8 (203)	34.69 (881)	28.69 (729)	37.63 (956)	31.63 (803)
USF362410	36 (915)	24 (610)	10 (254)	9.79 (249)	35.20 (894)	8.15 (207)	27.63 (702)



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TABLE 7 - USABLE WALL AREA - DIMENSIONS

Catalog Number	"A" Gland Plate	"B" Gland Plate	"C" Gland Plate	"A" Blank Wall Area	"B" Blank Wall Area	"C" Blank Wall Area
USF121206	5.79 (147)	11.20 (284)	5.79 (147)	11.75 (298)	35.2 (894)	11.2 (284)
USF161206	5.79 (147)	15.20 (386)	5.79 (147)	11.75 (298)	35.2 (894)	11.2 (284)
USF161208	7.79 (198)	15.20 (386)	7.79 (198)	11.75 (298)	35.2 (894)	11.2 (284)
USF161210	9.79 (249)	15.20 (386)	9.79 (249)	11.75 (298)	35.2 (894)	11.2 (284)
USF161606	5.79 (147)	15.20 (386)	5.79 (147)	11.75 (298)	35.2 (894)	15.2 (386)
USF161608	7.79 (198)	15.20 (386)	7.79 (198)	11.75 (298)	35.2 (894)	15.2 (386)
USF161610	9.79 (249)	15.20 (386)	9.79 (249)	11.75 (298)	35.2 (894)	15.2 (386)
USF201606	5.79 (147)	15.20 (386)	5.79 (147)	11.75 (298)	35.2 (894)	19.2 (488)
USF201608	5.79 (147)	19.20 (488)	5.79 (147)	11.75 (298)	35.2 (894)	15.2 (386)
USF201610	7.79 (198)	19.20 (488)	7.79 (198)	11.75 (298)	35.2 (894)	15.2 (386)
USF202006	9.79 (249)	19.20 (488)	9.79 (249)	11.75 (298)	35.2 (894)	15.2 (386)
USF202008	5.79 (147)	19.20 (488)	5.79 (147)	11.75 (298)	35.2 (894)	19.2 (488)
USF202010	7.79 (198)	19.20 (488)	7.79 (198)	11.75 (298)	35.2 (894)	19.2 (488)
USF202012	9.79 (249)	19.20 (488)	9.79 (249)	11.75 (298)	35.2 (894)	19.2 (488)
USF241606	11.79 (299)	19.20 (488)	5.79 (147)	11.75 (298)	35.2 (894)	11.2 (284)
USF241608	11.79 (299)	19.20 (488)	11.79 (299)	11.75 (298)	35.2 (894)	15.2 (386)
USF241610	7.79 (198)	23.20 (589)	7.79 (198)	11.75 (298)	35.2 (894)	15.2 (386)
USF242006	9.79 (249)	23.20 (589)	9.79 (249)	11.75 (298)	35.2 (894)	19.2 (488)
USF242008	5.79 (147)	23.20 (589)	5.79 (147)	11.75 (298)	35.2 (894)	19.2 (488)
USF242010	7.79 (198)	23.20 (589)	7.79 (198)	11.75 (298)	35.2 (894)	19.2 (488)
USF242012	9.79 (249)	23.20 (589)	9.79 (249)	11.75 (298)	35.2 (894)	19.2 (488)
USF242406	11.79 (299)	23.20 (589)	11.79 (299)	11.75 (298)	35.2 (894)	23.2 (589)
USF242408	5.79 (147)	23.20 (589)	5.79 (147)	11.75 (298)	35.2 (894)	23.2 (589)
USF242410	7.79 (198)	23.20 (589)	7.79 (198)	11.75 (298)	35.2 (894)	23.2 (589)
USF242412	9.79 (249)	23.20 (589)	9.79 (249)	11.75 (298)	35.2 (894)	23.2 (589)
USF242416	11.79 (299)	23.20 (589)	11.79 (299)	11.75 (298)	35.2 (894)	23.2 (589)
USF242420	15.79 (401)	23.20 (589)	15.79 (401)	11.75 (298)	35.2 (894)	23.2 (589)
USF302008	19.79 (503)	23.20 (589)	19.79 (503)	11.75 (298)	35.2 (894)	19.2 (488)
USF302010	7.79 (198)	29.20 (742)	7.79 (198)	11.75 (298)	35.2 (894)	19.2 (488)
USF302408	9.79 (249)	29.20 (742)	9.79 (249)	11.75 (298)	35.2 (894)	23.2 (589)
USF302410	7.79 (198)	29.20 (742)	7.79 (198)	11.75 (298)	35.2 (894)	23.2 (589)
USF302412	9.79 (249)	29.20 (742)	9.79 (249)	11.75 (298)	35.2 (894)	23.2 (589)
USF302420	11.79 (299)	29.20 (742)	11.79 (299)	11.75 (298)	35.2 (894)	23.2 (589)
USF303008	19.79 (503)	29.20 (742)	19.79 (503)	11.75 (298)	35.2 (894)	29.2 (742)
USF303010	7.79 (198)	29.20 (742)	7.79 (198)	11.75 (298)	35.2 (894)	29.2 (742)
USF303012	9.79 (249)	29.20 (742)	9.79 (249)	11.75 (298)	35.2 (894)	29.2 (742)
USF362408	11.79 (299)	29.20 (742)	11.79 (299)	11.75 (298)	35.2 (894)	23.2 (589)
USF362410	7.79 (198)	35.20 (894)	7.79 (198)	11.75 (298)	35.2 (894)	23.2 (589)