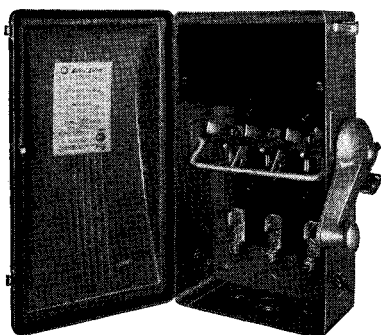


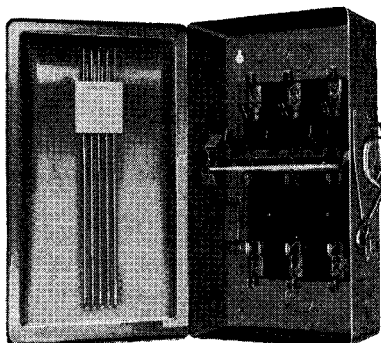


600 volts a-c, 600 volts d-c maximum
2, 3, 4 poles • types, features

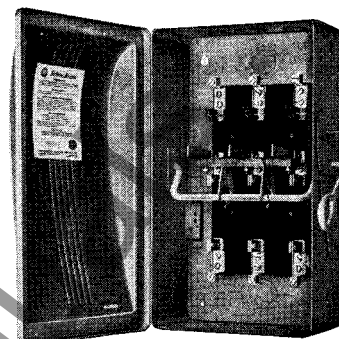
type H
heavy duty industrial
(with interlock)



type S
standard duty
(with interlock)



type G
general purpose



application

safety switches Designed principally for the control and protection of motor or feeder circuits and as disconnects. All safety switches are listed by Underwriters' Laboratories, Inc. and all except the double throw switches are suitable for use as service entrance equipment. They are manufactured in three distinct types—H, S and G—to service the three recognized levels of application in the field.

ampere rating: 30 to 1200

number of poles: 2, 3, and 4

maximum volts: 600 a-c; 600 d-c

types { H heavy-duty industrial, hp rated
S standard duty, hp rated
G general purpose—for horsepower ratings, when required, refer to nearest district office.

Type H switches are designed for heavy duty industrial applications where continued performance and safety under the most severe types of application is the primary consideration. Type H safety switches have a quick-make, quick-break mechanism and an interlocked cover which cannot be opened by unauthorized personnel when the switch is in the "ON" position. These switches are rated in horsepower and can be used on inductive circuits. The copper parts are tin plated to prevent corrosion and oxidation. They exceed the requirements for Nema and Government specifications calling for type A switches. The advantages of type H over type S are:

1. Neoprene gasket and trunk type cover latches resulting in Nema-1A dust resisting enclosure.
2. Micarta shield over line terminals minimizing exposure to live parts to operating personnel during inspection or fuse replacement.
3. Operating mechanism is contained in rugged cast handle leaving side gutters free for wiring.
4. Switch bases are coated with iron oxide cement increasing moisture resistance and improving the dielectric strength.
5. Available in complete range 30 to 1200 amps 240 and 600 volt ratings.

Type S switches are designed for medium duty industrial or commercial applications. These switches meet Nema and Government specifications calling for type A switches. Type S switches have a quick-make, quick-break mechanism and cover interlock along with conventional spring mechanism located inside enclosure. They are rated in horsepower and can be used on inductive loads. Copper parts are tin plated to prevent corrosion and oxidation. They are available in ratings 30 to 600 amperes, 240 volts and 30 to 200 amperes, 600 volts.

Type G switches have a slow make-quick break mechanism. No cover interlock is provided. They are designed primarily for light duty main entrance work and lighting circuits. They are not recommended for use on inductive circuits. Available in ratings 30 to 600 amperes, 240 volts.

features

- Diamond pointed break jaw and extended blade. Arcing occurs outside contact area keeping parts clean to assure longer life.
- De-ion® arc quenchers extinguish arcs efficiently thus extending contact life. Used on all 600 volt switches.
- Mechanism in handle. More wiring space. Prevents damage to conductor insulation. Provided on type H switches and all switches 400 amps and above.
- Minimum heat one piece copper construction. Spring steel fuse jaw reinforcement.
- High grade asbestos composition base affords excellent dielectric strength and mechanical ruggedness.
- Front removable copper. One piece copper parts are front mounted and front removable.
- Bonderized enclosures. Bonderizing minimizes rust and corrosion by providing a protective coating and secure anchor for the baked enamel finish.
- Tin plated copper parts. All copper parts are tin plated preventing formation of high resistance oxide. Prevents galling and rolling.
- Maximum contact. Break jaws and fuse jaws are self-aligning assuring maximum contact area.

March 15, 1955

Supersedes Quick Selector section 30-100, pages 1 to 8, dated August 2, 1954
mailed to: E/249/PL; D63-1D; C26-1E



safety switches

fusible, non-fusible • 30 to 1200 amps**supplementary types****catalog symbols • ordering**

Solid neutral switches with insulated groundable neutral are used for entrance or feeder circuits.

Midget switches are used to control electrical refrigeration machines, stokers and other major household appliances. They are equipped with a terminal strip for thermostat connection.

Type G plug fuse switches are designed for light duty circuits.

Double throw switches usually applied as a transfer switch where a load is supplied from two sources, or where it is desired to open one circuit and close another. Either fusible or non-fusible available. Provided with cover interlock up to 200 amperes.

Switching neutral switches, where switching neutral switches are required, use a conventional

switch and insert a dummy fuse in the fuse clip of the neutral pole.

Sheet steel enclosures, NEMA 1A dust resisting are provided on all type H switches. NEMA 1 sheet steel enclosures provided on all other switches. All switches have medium light gray enamel finish and all except the 800 and 1200 amp switch enclosures are bonderized.

NEMA 12 safety switch is designed for use in special industry applications where unusually severe conditions involving oil, coolant, lint, dust and other foreign material exist in the operating atmosphere. The enclosure is designed in conformance with IIC specifications. This enclosure incorporates a Neoprene gasketed door and a handle operating mechanism which may be padlocked in either the on or off position.

how to interpret safety switch catalog symbols

prefix letters		numbers			suffix letters
class	type	poles	volts	amps	modifications
AH = Heavy Duty Type H CA = Standard Duty Type S D = General Purpose Type G G = Midget Plug Fuse Type G P = Standard Plug Fuse Type G X = Double Throw J = NEMA 12	U = Unfused F = Fused	Δ2 = 2 Poles Δ3 = 3 Poles Δ4 = 4 Poles	1 = 120 Volts 2 = 240 Volts 5 = 600 Volts 6 = 600 Volts	1 = 30 amp 2 = 60 amp 3 = 100 amp 4 = 200 amp 5 = 400 amp 6 = 600 amp 7 = 800 amp 8 = 1200 amp	I = Insulated Groundable Neutral

Δ For switches with neutrals this designates number of service wires. Switch blades are one less than the number of service wires.

example 1: AHF-352—Type H, fusible, 3 pole, 600 volts, 60 amps.

example 2: DF-323-I—Type G, fusible, 3 pole, 240 volts, 100 amps, insulated groundable neutral.

when ordering, specify:

new switches:

1. quantity.
2. catalog number.
3. amperes.
4. voltage
5. number of poles, plus.
6. any special feature.

renewal parts:

the existing switch *must* be identified by style number.

solderless lugs furnished on safety switches

switch rating	maximum wire size	minimum wire size
single throw		
60	2	8
100	0	2
200	0000	00
400Δ	two 350 MCM	two 1/0
600Δ	two 500 MCM	two 4/0
800■	four 350 MCM	four 1/0
1200▲	five 500 MCM	five 4/0
double throw		
30	6	14
60	4	14
100	0	8
200	250 MCM	0
400	600 MCM	300 MCM
600	1000 MCM	700 MCM

Δ has one double lug per pole

■ has two double lugs per pole

▲ has two double lugs and one single lug per pole

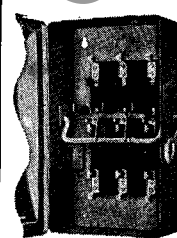
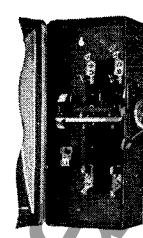
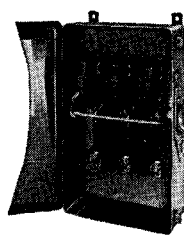
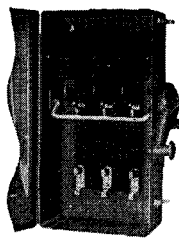
safety switches

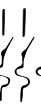
fusible, non-fusible • 30 to 1200 amps

types H, S, G and NEMA 12

Q.S.
30-100
page 3

single throw:



	use	rating			type H			NEMA 12			type S			type G		
		hp types H & S		amp	heavy duty industrial			special industry use			standard duty			general purpose		
		a-c	d-c		catalog no.	list price	hip. wt. ◊	catalog no.	list price	ship. wt. ◊	catalog no.	list price	ship. wt. ◊	catalog no.	list price	ship. wt. ◊
fusible:	2-pole 240 volt a-c 250 volt d-c 	1½	5	30	AHF-221	\$ 24.50	16	JHF-221	\$ 27.00	10	CAF-221	\$ 13.70	10	DF-221	\$ 5.60	5
		3	10	60	AHF-222	33.00	18	JHF-222	36.00	14	CAF-222	25.00	14	DF-222	12.50	13
		7½	20	100	AHF-223	50.00	34	JHF-223	55.00	30	CAF-223	40.00	30	DF-223	27.00	27
		15	40	200	AHF-224	83.00	45	JHF-224	91.00	44	CAF-224	72.00	44	DF-224	50.00	50
		30	50	400	AHF-225	187.00	190				CAF-225	148.00	150	DF-225	120.00	150
		..	..	600	AHF-226	326.00	268				CAF-226	295.00	230	DF-226	260.00	230
	3-pole 240 volt a-c 	3	..	30	AHF-321	30.00	17	JHF-321	33.00	11	CAF-321	16.70	11	DF-321	11.00	10
		7½	..	60	AHF-322	43.00	19	JHF-322	47.00	15	CAF-322	23.00	15	DF-322	17.50	14
		15	..	100	AHF-323	66.00	45	JHF-323	73.00	40	CAF-323	46.00	40	DF-323	32.00	40
		25	..	200	AHF-324	99.00	60	JHF-324	109.00	58	CAF-324	80.00	58	DF-324	68.00	65
		50	..	400	AHF-325	220.00	210				CAF-325	186.00	164	DF-325	150.00	164
		..	..	600	AHF-326	366.00	266				CAF-326	335.00	285	DF-326	300.00	285
non-fusible	2-pole 240 volt a-c 250 volt d-c 	3	5	30	AHU-221	23.00	16							DU-221	5.60	5
		7½	10	60	AHU-222	30.00	16							DU-222	12.50	11
		15	15	100	AHU-223	49.00	28							DU-223	27.00	24
		25	30	200	AHU-224	70.00	36							DU-224	50.00	30
		50	50	400	AHU-225	160.00	123							DU-225	120.00	123
		..	..	600	AHU-226	270.00	151							DU-226	230.00	151
	3-pole 240 volt a-c 	5	..	30	AHU-321	28.00	16							DU-321	5.60	8
		10	..	60										DU-322	12.50	11
		20	..	100										DU-323	27.00	31
		40	..	200										DU-324	50.00	35
		50	..	400										DU-325	120.00	165
		..	..	600										DU-326	230.00	285
	4-pole 240 volt a-c 	5	..	30							CAU-421	32.00	10	DU-421	13.50	10
		15	..	60							CAU-422	37.00	14	DU-422	27.00	18
		25	..	100							CAU-423	70.00	35	DU-423	65.00	35
		50	..	200							CAU-424	123.00	50	DU-424	107.00	50
		50	..	400							CAU-425	211.00	234	DU-425	183.00	234
		..	..	600							CAU-426	400.00	302	DU-426	365.00	302

◊ before applying fusible switches, see application data

□ not recommended for inductive circuits

■ not Bonderized, but given a zinc chromate primer and gray enamel finish

◊ approximate shipping weight, pounds

• Types H, S and G U/L listed as enclosed switches under Guide Number 380W3—File Number E-5189. Meets Federal Spec. WS-865 for enclosed safety switches.

note: standard switches 600 amps and above are not provided with knockouts

prices effective March 15, 1955 and are subject to change without notice
discount symbol A selling policy 30-000

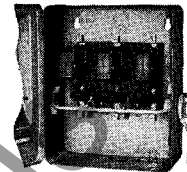
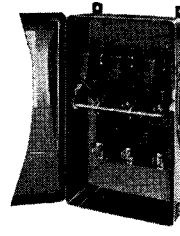
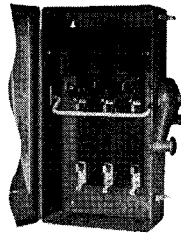


safety switches

fusible, non-fusible • 30 to 1200 amps

types H, S and NEMA 12

single throw:



	use	rating				type H			NEMA 12			type S		
		hp			amp	heavy duty industrial			special industry use			standard duty		
		a-c	600v	d-c		catalog no.	list price	ship. wt. ◊	catalog no.	list price	ship. wt. ◊	catalog no.	list price	ship. wt. ◊
fusible:	2-pole 600 volts a-c or d-c 	..	3	10	30	AHF-261	\$ 41.00	17	JHF-261	\$ 45.00	21	use 3 pole CAF listed below		
		..	10	25	60	AHF-262	43.00	22	JHF-262	47.00	21			
		..	15	40	100	AHF-263	66.00	41	JHF-263	73.00	49			
		..	30	50	200	AHF-264	99.00	50	JHF-264	109.00	65			
		..	..	..	400	AHF-265	229.00	202	..	..	..			
		..	..	..	600	AHF-266	362.00	340	..	..	..			
	3-pole 600 volts a-c 	..	..	..	800	AHF-267	560.00	380	..	..	..	CAF-351 \$ 29.00 CAF-352 35.00 CAF-353 64.00 CAF-354 96.00		
		..	..	..	1200	AHF-268	788.00	420	..	..	..			
		..	7 1/2	..	30	AHF-351	47.00	24	JHF-351	52.00	21			
		..	15	..	60	AHF-352	50.00	25	JHF-352	55.00	21			
		..	30	..	100	AHF-353	76.00	50	JHF-353	84.00	49			
		..	50	..	200	AHF-354	123.00	70	JHF-354	135.00	65			
non-fusible	2-pole 600 volts a-c or d-c 	..	..	..	400	AHF-355	247.00	230	..	..	..	CAF-451 47.00 CAF-452 55.00 CAF-453 94.00 CAF-454 156.00		
		..	..	..	600	AHF-356	416.00	295	..	..	..			
		..	..	..	800	AHF-357	720.00	440	..	..	..			
		..	..	..	1200	AHF-358	942.00	563	..	..	..			
	4-pole 600 volts a-c 	..	10	..	30	AHF-451	59.00	30	..	..	..			
		..	20	..	60	AHF-452	64.00	32	..	..	..			
		..	30	..	100	AHF-453	100.00	71	..	..	..			
		..	50	..	200	AHF-454	169.00	101	..	..	..			
		..	..	..	400	AHF-455	322.00	200	..	..	..			
		..	..	..	600	AHF-456	524.00	415	..	..	..			
non-fusible	2-pole 600 volts a-c or d-c 	..	15	7 1/2	30	AHU-261	28.00	17	JHU-261	31.00	19	use 3 pole CAU listed below		
		..	30	15	60	AHU-262	36.00	18	JHU-262	40.00	22			
		..	40	25	100	AHU-263	59.00	30	JHU-263	65.00	38			
		..	50	50	200	AHU-264	76.00	40	JHU-264	84.00	48			
		..	..	..	400	AHU-265	187.00	148	..	..	..			
		..	..	..	600	AHU-266	270.00	170	..	..	..			
	3-pole 240 volts a-c 600 volts a-c 	..	..	..	800	AHU-267	404.00	280	..	..	..	CAU-351 15.20 CAU-352 28.00 CAU-353 43.00 CAU-354 66.00		
		..	..	..	1200	AHU-268	552.00	330	..	..	..			
		..	10	..	30	AHU-351	33.00	18	JHU-351	36.00	19			
		..	20	..	60	AHU-352	41.00	22	JHU-352	45.00	22			
		..	40	..	100	AHU-353	61.00	38	JHU-353	67.00	38			
		..	50	50	200	AHU-354	80.00	48	JHU-354	88.00	48			
non-fusible	4-pole 240 volts a-c 600 volts a-c 	..	..	..	400	AHU-355	208.00	178	..	..	..	CAU-451 34.00 CAU-452 47.00 CAU-453 87.00 CAU-454 126.00		
		..	..	..	600	AHU-356	334.00	230	..	..	..			
		..	..	..	800	AHU-357	540.00	325	..	..	..			
		..	..	..	1200	AHU-358	725.00	352	..	..	..			
	2-pole 240 volts a-c 600 volts a-c 	..	..	..	30	AHU-451	41.00	24	..	..	..			
		..	15	..	60	AHU-452	53.00	26	..	..	..			
		..	25	..	100	AHU-453	93.00	42	..	..	..			
		..	50	50	200	AHU-454	148.00	66	..	..	..			
		..	..	..	400	AHU-455	270.00	163	..	..	..			
		..	..	..	600	AHU-456	471.00	225	..	..	..			

† before applying fusible switches, see application data
 ■ not Bonded, but given a zinc chromate primer and gray enamel finish
 ◊ approximate shipping weight, pounds
 ‡ Types H and S are U/L listed as enclosed switches under Guide Number 380W3—File Number E-5189. Meets Federal Spec. WS-865 for enclosed safety switches.
 note: standard switches 600 amperes and above are not provided with knockouts

safety switches

fusible, non-fusible • 30 to 1200 amps

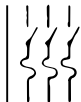
Q.S.

30-100

page 5

types H, S, G, Midget and NEMA 12

single throw

	use	rating		type H			NEMA 12			type S			type G□		
		hp type H and S	amp.	heavy duty industrial			special industry use			standard duty			general purpose		
				catalog no.	list price	ship. wt.◇	catalog no.	list price	ship. wt.◇	catalog no.	list price	ship. wt.◇	catalog no.	list price	ship. wt.◇
solid neutral	3-pole SN 120/240 v a-c ▲ 125/250 v d-c ▲ 240 v a-c 	3	30	AHF-321-I	\$ 28.00	16	JHF-321-I	\$ 31.00	10	CAF-321-I	\$ 13.70	10	DF-321-I	\$ 6.40	7
		7½	60	AHF-322-I	37.00	17	JHF-322-I	41.00	14	CAF-322-I	25.00	14	DF-322-I	12.50	13
		15	100	AHF-323-I	59.00	36	JHF-323-I	65.00	32	CAF-323-I	40.00	32	DF-323-I	27.00	30
		30	200	AHF-324-I	91.00	47	JHF-324-I	100.00	46	CAF-324-I	72.00	46	DF-324-I	50.00	40
		50	400	AHF-325-I	207.00	200	.....	.....	.....	CAF-325-I	168.00	172	DF-325-I	140.00	172
		..	600	AHF-326-I	346.00	270	.....	.....	.....	CAF-326-I	315.00	255	DF-326-I	280.00	255
	4-pole SN 240 v a-c 	3	30	AHF-421-I	41.00	23	JHF-421-I	45.00	12	CAF-421-I	16.70	12	DF-421-I	11.00	13
		7½	60	AHF-422-I	50.00	25	JHF-422-I	55.00	16	CAF-422-I	29.00	16	DF-422-I	17.50	18
		15	100	AHF-423-I	79.00	44	JHF-423-I	87.00	41	CAF-423-I	46.00	41	DF-423-I	32.00	35
		30	200	AHF-424-I	116.00	61	JHF-424-I	128.00	58	CAF-424-I	80.00	58	DF-424-I	68.00	56
		50	400	AHF-425-I	240.00	280	.....	.....	..	CAF-425-I	206.00	225	DF-425-I	170.00	225
		..	600	AHF-426-I	386.00	300	.....	.....	..	CAF-426-I	355.00	275	DF-426-I	320.00	275
		..	800	■AHF-427-I	895.00	440	.....	.....	..	.....	.....	..	.....	.....	..
		..	1200	■AHF-428-I	1099.00	500	.....	.....	..	.....	.....	..	.....	.....	..

□ not recommended for inductive circuits

▲ lower voltage is the voltage to ground, unless otherwise noted

■ not Bonderized, but given a zinc chromate primer and gray enamel finish

Types H, S and G are U/L listed as enclosed switches under Guide Number 380W3—File Number E-5189. Meets Federal Spec. WS-865 for enclosed safety switches

◇ approximate shipping weight, pounds

note: standard switches 600 amperes and above are not provided with knockouts

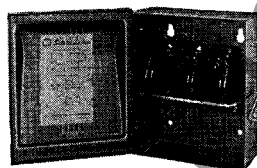
type G: general purpose with plug fuses

120 volts a-c
120/240 volts a-c ▲

125 volts d-c
125/250 volts d-c ▲

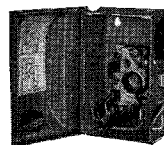
General purpose type G switches are designed for light duty entrance applications and lighting circuits. They are rated at 30 amperes, 125/250 volts d-c and 120/240 volts a-c. The construction differs somewhat from the standard line of switches; bases are molded material and brackets of insulating fibre.

▲ lower voltage is voltage to ground, unless otherwise noted



amps	poles	blades	fuses	catalog no.	list price
30	2	2	2	PF-211	\$4.70
30	1	1	1	PF-211-I	4.40
30	3	3	3	PF-311	8.50
30	3	2	2	PF-311-I	5.00

midget switch: 120 volts a-c; 125 volts d-c



amps	poles	blades	fuses	catalog no.	list price
30	2SN	1	1 plug	GF-211-I	\$3.80

series PF-211: approx. wt., 5 lbs.

series PF-311: approx. wt., 8 lbs.

series GF-211-I: approx. wt., 4 lbs.

list price additions: arc quenchers for single throw only

with De-ion grids for 600 volt a-c:
600 volt d-c switches

without De-ion grids for 240 volt a-c:
250 volt d-c switches

amp	required per pole	style no.	list price	amp	poles	required per switch	style no.	list price
30	1	1320 784	\$2.65	30	2P, 3PSN	1	1420 506	\$3.35
60	1	1320 784	2.65	30	4P, 5PSN	2	1420 506	3.35
100	1	1343 702	4.00	30	3P, 4PSN	1	1420 507	3.35
200	1	1300 187	4.00	60	all	1 per pole	1320 785	3.65

□ Can also be installed on 2 pole, 250 volt type A fused switches.

One arc quencher support per pole is required for 100 and 200 amp, 3 or 4 pole, 250 volt switches.

The support is style number 1300 190 at \$.50 list each.

prices effective March 15, 1955 and are subject to change without notice

discount symbol A selling policy 30-000



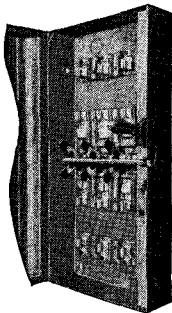
safety switches

fusible, non-fusible • 30 to 600 amps

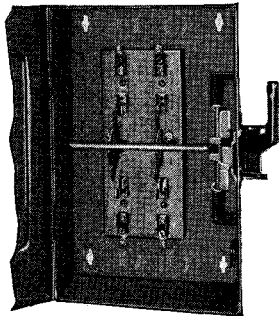
solid neutrals • motor circuit switch

double throw

fusible



non-fusible

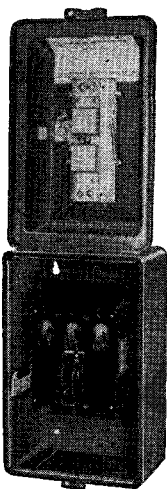


use	amps	240 volts a-c 250 volts d-c			600 volts a-c 600 volts d-c		
		catalog no.	list price	approx ship wt lbs	catalog no.	list price	approx ship wt lbs
2-pole	30	XF-221	\$ 47.00	18	XF-261	\$ 95.00	45
	60	XF-222	85.00	24	XF-262	98.00	46
	100	XF-223	128.00	61	XF-262	171.00	65
	200	XF-224	179.00	125	XF-264	208.00	135
3-pole	30	XF-321	51.00	20	XF-351	101.00	53
	60	XF-322	93.00	31	XF-352	104.00	54
	100	XF-323	155.00	85	XF-353	183.00	87
	200	XF-324	235.00	160	XF-354	274.00	170
4-pole	30	XF-421	72.00	29	XF-451	141.00	141
	60	XF-422	114.00	40	XF-452	144.00	142
	100	XF-423	183.00	93	XF-453	167.00	146
	200	XF-424	250.00	110	XF-454	171.00	147
2-pole	30	XU-221	29.00	15	XU-262	47.00	22
	60	XU-222	46.00	21	XU-263	74.00	39
	100	XU-223	67.00	27	XU-264	101.00	100
	200	XU-224	90.00	84	XU-265	286.00	135
3-pole	30	XU-321	34.00	17	XU-352	56.00	31
	60	XU-322	51.00	20	XU-353	90.00	50
	100	XU-323	82.00	39	XU-354	139.00	110
	200	XU-324	129.00	106	XU-355	360.00	191
4-pole	30	XU-421	50.00	21	XU-452	72.00	33
	60	XU-422	72.00	32	XU-453	167.00	46
	100	XU-423	146.00	46	XU-454	171.00	47
	200	XU-424	203.00	127	XU-455	286.00	135

■ use 60 ampere switch

motor circuit switch

3-pole
4-pole SN



The motor circuit switch was developed to meet the demand of heavy industry for a visible blade motor disconnect. Available unfused only, this compact 3-pole device incorporates features superior to those of conventional switch design. U/L approved.

The disconnect unit is designed around circuit breaker specifications and is housed in a NEMA 1A sheet steel enclosure similar to that of our AB-I breakers. The device may be padlocked in either the "On" or "Off" positions with as many as three padlocks.

volts a-c	maximum horsepower, 3-phase			
	30 amp switch	60 amp switch	100 amp switch	200 amp switch
120	5	7½	20	30
240	10	15	40	75
480	20	30	75	125
600	25	50	100	150

size switch in amperes	3-phase, 3-pole			4-pole solid neutral		
	style number	list price	wt [◇] lbs	style number	list price	wt [◇] lbs
30	1774 064	\$ 36.00	12	1774 065	\$ 42.00	12¼
60	1774 066	45.00	12	1774 067	54.00	12¼
100	1774 068	67.00	16	1774 069	76.00	16½
200	1774 070	126.00	30	1774 071	139.00	31

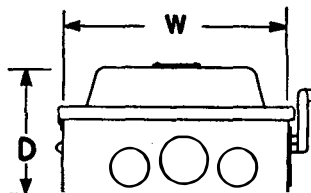
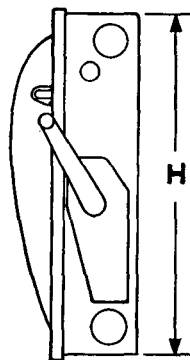
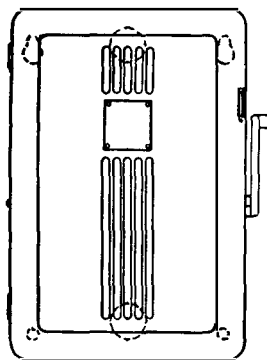
◇ approximate shipping weight, pounds.

safety switches

fusible, non-fusible • 30 to 1200 amps

outline dimensions

Q.S.
30-100
page 7



These dimensions are approximate only and are not to be used for construction purposes. See dimension sheets 30-130 for full details.

catalog number	dimensions—inches (approximate)			catalog number	dimensions—inches (approximate)		
	height (h)	width (w)	depth (d)		height (h)	width (w)	depth (d)
AHF				AHU			
221	9 ⁷ / ₈	7 ¹ / ₂	5 ⁷ / ₈	221	9 ⁷ / ₈	7 ¹ / ₂	5 ⁷ / ₈
222	13	7 ¹ / ₂	6 ³ / ₈	222	11 ⁷ / ₈	9 ⁷ / ₈	6 ¹ / ₈
223	22 ¹ / ₄	9	8 ¹ / ₂	223	18 ⁷ / ₈	12 ⁵ / ₈	8 ⁵ / ₈
224	28 ³ / ₈	11	9 ¹ / ₂	224	20 ³ / ₈	13 ⁷ / ₈	9 ⁷ / ₈
225	41	16 ³ / ₈	12 ³ / ₈	225	30 ³ / ₈	16 ³ / ₈	12 ³ / ₈
226	51 ⁷ / ₈	16 ³ / ₈	13	226	36 ¹ / ₂	16 ³ / ₈	13
227	52	29 ³ / ₈	12 ⁷ / ₈				
228	60 ¹ / ₈	30 ³ / ₈	13 ³ / ₈	261	11 ⁷ / ₈	9 ⁷ / ₈	6 ¹ / ₈
				262	11 ⁷ / ₈	9 ⁷ / ₈	6 ¹ / ₈
261	16 ³ / ₈	9 ⁷ / ₈	6 ³ / ₈	263	18 ⁷ / ₈	12 ⁵ / ₈	8 ⁵ / ₈
262	16 ³ / ₈	9 ⁷ / ₈	16 ³ / ₈	264	20 ³ / ₈	13 ⁷ / ₈	9 ⁷ / ₈
263	28 ³ / ₈	11	9 ¹ / ₂	265	30 ³ / ₈	16 ³ / ₈	12 ³ / ₈
264	30 ³ / ₈	13 ³ / ₈	9 ¹ / ₂	266	36 ¹ / ₂	16 ³ / ₈	13
265	44	16 ³ / ₈	12 ³ / ₈	267	38 ⁷ / ₈	29 ³ / ₈	12 ⁷ / ₈
266	51 ⁷ / ₈	16 ³ / ₈	13	268	44 ⁷ / ₈	30 ³ / ₈	13 ³ / ₈
267	52	29 ³ / ₈	12 ⁷ / ₈				
268	60 ¹ / ₈	30 ³ / ₈	13 ³ / ₈	321	9 ⁷ / ₈	7 ¹ / ₂	5 ⁷ / ₈
				351	11 ⁷ / ₈	9 ⁷ / ₈	6 ¹ / ₈
321	9 ⁷ / ₈	7 ¹ / ₂	5 ⁷ / ₈	352	11 ⁷ / ₈	9 ⁷ / ₈	6 ¹ / ₈
321-I	9 ⁷ / ₈	7 ¹ / ₂	5 ⁷ / ₈	353	18 ⁷ / ₈	12 ⁵ / ₈	8 ⁵ / ₈
322	13	9 ¹ / ₂	6 ³ / ₈	354	20 ³ / ₈	13 ⁷ / ₈	9 ⁷ / ₈
322-I	13	7 ¹ / ₂	6 ³ / ₈	355	30 ³ / ₈	20	12 ³ / ₈
323	22 ¹ / ₄	12 ⁵ / ₈	8 ¹ / ₂	356	36 ¹ / ₂	23 ³ / ₄	13
323-I	22 ¹ / ₄	9	8 ¹ / ₂	357	38 ⁷ / ₈	35 ³ / ₈	12 ⁷ / ₈
324	28 ³ / ₈	13 ³ / ₈	9 ¹ / ₂	358	44 ⁷ / ₈	40 ³ / ₈	13 ³ / ₈
324-I	28 ³ / ₈	11	9 ¹ / ₂				
325	41	20	12 ³ / ₈	451	16 ³ / ₈	12 ⁵ / ₈	16 ³ / ₈
325-I	41	16 ³ / ₈	12 ³ / ₈	452	16 ³ / ₈	12 ⁵ / ₈	16 ³ / ₈
326	48 ⁷ / ₈	23 ³ / ₄	13	453	24 ¹ / ₄	15 ⁵ / ₈	8 ⁵ / ₈
326-I	48 ⁷ / ₈	23 ³ / ₄	13	454	30 ³ / ₈	17 ⁵ / ₈	9 ⁷ / ₈
327	52	35 ³ / ₈	12 ⁷ / ₈	455	29	29	12 ³ / ₈
327-I	52	35 ³ / ₈	12 ⁷ / ₈	456	36 ¹ / ₂	30 ³ / ₈	13
328	60 ¹ / ₈	40 ³ / ₈	13 ³ / ₈				
328-I	60 ¹ / ₈	40 ³ / ₈	13 ³ / ₈	CAF			
				221	9 ⁷ / ₈	7 ¹ / ₂	5 ⁷ / ₈
351	16 ³ / ₈	9 ⁷ / ₈	6 ³ / ₈	222	13	7 ¹ / ₂	6 ³ / ₈
352	16 ³ / ₈	9 ⁷ / ₈	6 ³ / ₈	223	22 ¹ / ₄	9	8 ¹ / ₂
353	24 ¹ / ₄	12 ⁷ / ₈	8 ¹ / ₂	224	28 ³ / ₈	11	9 ¹ / ₂
354	30 ³ / ₈	13 ³ / ₈	9 ¹ / ₂	225	41	16 ³ / ₈	12 ³ / ₈
355	44	20	12 ³ / ₈	226	51 ⁷ / ₈	16 ³ / ₈	13
356	51 ⁷ / ₈	23 ³ / ₄	13				
357	52	35 ³ / ₈	12 ⁷ / ₈	321	9 ⁷ / ₈	7 ¹ / ₂	5 ⁷ / ₈
358	60 ¹ / ₈	40 ³ / ₈	13 ³ / ₈	321-I	9 ⁷ / ₈	7 ¹ / ₂	5 ⁷ / ₈
				322	13	9 ¹ / ₂	6 ³ / ₈
421	9 ⁷ / ₈	9 ⁷ / ₈	5 ⁷ / ₈	322-I	13	7 ¹ / ₂	6 ³ / ₈
421-I	9 ⁷ / ₈	9 ⁷ / ₈	5 ⁷ / ₈	323	22 ¹ / ₄	12 ⁵ / ₈	8 ¹ / ₂
422	13	11 ³ / ₈	6 ³ / ₈	323-I	22 ¹ / ₄	9	8 ¹ / ₂
422-I	13	9 ¹ / ₂	6 ³ / ₈	324	28 ³ / ₈	13 ³ / ₈	9 ¹ / ₂
423	24 ¹ / ₄	15 ⁵ / ₈	8 ⁵ / ₈	324-I	28 ³ / ₈	11	9 ¹ / ₂
423-I	22 ¹ / ₄	12 ⁵ / ₈	8 ¹ / ₂	325	41	20	12 ³ / ₈
424	30 ³ / ₈	17 ⁵ / ₈	9 ¹ / ₂	325-I	41	16 ³ / ₈	12 ³ / ₈
424-I	28 ³ / ₈	13 ³ / ₈	9 ¹ / ₂	326	48 ⁷ / ₈	23 ³ / ₄	13
425	41	23 ³ / ₄	12 ³ / ₈	326-I	48 ⁷ / ₈	23 ³ / ₄	13
425-I	41	23 ³ / ₄	12 ³ / ₈				
426	51 ⁷ / ₈	30 ³ / ₈	13	351	16 ³ / ₈	9 ⁷ / ₈	6 ³ / ₈
426-I	48 ⁷ / ₈	23 ³ / ₄	13	352	16 ³ / ₈	9 ⁷ / ₈	6 ³ / ₈
427-I	49	35 ³ / ₈	12 ⁷ / ₈	353	24 ¹ / ₄	12 ⁵ / ₈	8 ¹ / ₂
428-I	60 ¹ / ₈	40 ³ / ₈	13 ³ / ₈	354	30 ³ / ₈	13 ⁷ / ₈	9 ¹ / ₂
451	16 ³ / ₈	12 ⁵ / ₈	6 ³ / ₈	421	9 ⁷ / ₈	9 ⁷ / ₈	5 ⁷ / ₈
452	16 ³ / ₈	12 ⁵ / ₈	6 ³ / ₈	421-I	9 ⁷ / ₈	9 ⁷ / ₈	5 ⁷ / ₈
453	24 ¹ / ₄	15 ⁵ / ₈	8 ⁵ / ₈	422	13	11 ³ / ₈	16 ³ / ₈
454	30 ³ / ₈	17 ⁵ / ₈	9 ¹ / ₂	422-I	13	9 ¹ / ₂	16 ³ / ₈
455	44	29	12 ³ / ₈	423	24 ¹ / ₄	15 ⁵ / ₈	8 ⁵ / ₈
456	41	23 ³ / ₄	12 ³ / ₈	423-I	22 ¹ / ₄	12 ⁵ / ₈	8 ¹ / ₂
				424	30 ³ / ₈	17 ⁵ / ₈	9 ¹ / ₂
				424-I	28 ³ / ₈	13 ⁷ / ₈	9 ¹ / ₂
				425	41	23 ³ / ₄	12 ³ / ₈
				425-I	41	23 ³ / ₄	12 ³ / ₈

**safety switches****fusible, non-fusible • 30 to 1200 amps****outline dimensions**

catalog number	dimensions—inches (approximate)			catalog number	dimensions—inches (approximate)		
	height (h)	width (w)	depth (d)		height (h)	width (w)	depth (d)
CAF-426 426-I	51 $\frac{7}{8}$ 48 $\frac{3}{8}$	30 $\frac{1}{4}$ 23 $\frac{1}{4}$	13 13	JHF-321 321-I	9 $\frac{7}{8}$ 9 $\frac{7}{8}$	7 $\frac{1}{2}$ 7 $\frac{1}{2}$	6 6
451	16 $\frac{3}{8}$	12 $\frac{5}{8}$	6 $\frac{3}{8}$	322	13	9 $\frac{1}{2}$	6 $\frac{1}{2}$
452	16 $\frac{3}{8}$	12 $\frac{5}{8}$	6 $\frac{3}{8}$	322-I	13	7 $\frac{1}{2}$	6 $\frac{1}{2}$
453	24 $\frac{1}{4}$	15 $\frac{5}{8}$	8 $\frac{5}{8}$	323	22 $\frac{1}{4}$	12 $\frac{5}{8}$	8 $\frac{5}{8}$
454	30 $\frac{7}{8}$	17 $\frac{3}{8}$	9 $\frac{5}{8}$	323-I	22 $\frac{1}{4}$	9	8 $\frac{5}{8}$
				324	28 $\frac{3}{8}$	13 $\frac{3}{8}$	9 $\frac{1}{4}$
				324-I	28 $\frac{3}{8}$	11	9 $\frac{1}{4}$
CAU-321 322	9 $\frac{7}{8}$ 11 $\frac{7}{8}$	7 $\frac{1}{2}$ 9 $\frac{7}{8}$	5 $\frac{7}{8}$ 6 $\frac{1}{8}$	351	16 $\frac{3}{8}$	9 $\frac{7}{8}$	6 $\frac{1}{2}$
323	18 $\frac{3}{8}$	12 $\frac{5}{8}$	8 $\frac{7}{8}$	352	16 $\frac{3}{8}$	9 $\frac{7}{8}$	6 $\frac{1}{2}$
324	20 $\frac{3}{8}$	13 $\frac{3}{8}$	9 $\frac{7}{8}$	353	24 $\frac{1}{4}$	12 $\frac{5}{8}$	8 $\frac{5}{8}$
325	30 $\frac{7}{8}$	20	12 $\frac{3}{4}$	354	30 $\frac{7}{8}$	13 $\frac{3}{8}$	9 $\frac{1}{4}$
326	36 $\frac{1}{2}$	23 $\frac{1}{4}$	13	421-I	9 $\frac{7}{8}$	9 $\frac{7}{8}$	6
				422-I	13	9 $\frac{7}{8}$	6 $\frac{1}{2}$
351	11 $\frac{7}{8}$	9 $\frac{7}{8}$	6 $\frac{1}{4}$	423-I	22 $\frac{1}{4}$	12 $\frac{5}{8}$	8 $\frac{5}{8}$
352	11 $\frac{7}{8}$	9 $\frac{7}{8}$	6 $\frac{1}{4}$	424-I	28 $\frac{3}{8}$	13 $\frac{3}{8}$	9 $\frac{1}{4}$
353	18 $\frac{3}{8}$	12 $\frac{5}{8}$	8 $\frac{7}{8}$				
354	20 $\frac{3}{8}$	13 $\frac{3}{8}$	9 $\frac{7}{8}$	JHU-261 262	11 $\frac{7}{8}$ 11 $\frac{7}{8}$	9 $\frac{7}{8}$ 9 $\frac{7}{8}$	6 $\frac{1}{4}$ 6 $\frac{1}{4}$
				263	18 $\frac{3}{8}$	12 $\frac{5}{8}$	8 $\frac{5}{8}$
421	9 $\frac{7}{8}$	9 $\frac{7}{8}$	5 $\frac{7}{8}$	264	20 $\frac{3}{8}$	13 $\frac{3}{8}$	9 $\frac{1}{4}$
422	13	11 $\frac{3}{8}$	6 $\frac{3}{8}$				
423	24 $\frac{1}{4}$	15 $\frac{5}{8}$	8 $\frac{7}{8}$	351	11 $\frac{7}{8}$	9 $\frac{7}{8}$	6 $\frac{1}{4}$
424	30 $\frac{3}{4}$	17 $\frac{3}{8}$	9 $\frac{5}{8}$	352	11 $\frac{7}{8}$	9 $\frac{7}{8}$	6 $\frac{1}{4}$
425	30 $\frac{3}{4}$	29	12 $\frac{3}{4}$	353	18 $\frac{3}{8}$	12 $\frac{5}{8}$	8 $\frac{5}{8}$
426	36 $\frac{1}{2}$	30 $\frac{1}{4}$	13	354	20 $\frac{3}{8}$	13 $\frac{3}{8}$	9 $\frac{1}{4}$
451	16 $\frac{3}{8}$	12 $\frac{5}{8}$	6 $\frac{3}{8}$	PF-211 211-I	7 $\frac{1}{4}$ 6 $\frac{1}{4}$	5 $\frac{1}{4}$ 4	4 3 $\frac{5}{8}$
452	16 $\frac{3}{8}$	12 $\frac{5}{8}$	6 $\frac{3}{8}$	311	9 $\frac{5}{8}$	7 $\frac{3}{4}$	4 $\frac{5}{8}$
453	24 $\frac{1}{4}$	15 $\frac{5}{8}$	8 $\frac{7}{8}$	311-I	7 $\frac{1}{4}$	5 $\frac{1}{4}$	4
454	30 $\frac{7}{8}$	17 $\frac{3}{8}$	9 $\frac{5}{8}$				
DF-221 222	7 $\frac{1}{4}$ 13	5 $\frac{1}{4}$ 7 $\frac{1}{2}$	4 6 $\frac{3}{8}$	XF-221 222	15 $\frac{1}{4}$ 21 $\frac{3}{8}$	7 $\frac{3}{4}$ 9 $\frac{1}{2}$	5 $\frac{1}{4}$ 6 $\frac{5}{8}$
223	22 $\frac{1}{4}$	9	8 $\frac{1}{2}$	223	29 $\frac{3}{8}$	13 $\frac{1}{2}$	6 $\frac{1}{2}$
224	28 $\frac{3}{8}$	11	9 $\frac{1}{8}$	224	36 $\frac{1}{2}$	13 $\frac{3}{4}$	9
225	41	16 $\frac{3}{4}$	12 $\frac{3}{4}$				
226	41	16 $\frac{3}{4}$	12 $\frac{3}{4}$	261	27 $\frac{3}{8}$	11 $\frac{5}{8}$	6
				262	27 $\frac{3}{8}$	11 $\frac{5}{8}$	6
321	9 $\frac{5}{8}$	7 $\frac{3}{4}$	4 $\frac{5}{8}$	263	35 $\frac{1}{8}$	12 $\frac{5}{8}$	6 $\frac{1}{2}$
321-I	7 $\frac{1}{4}$	5 $\frac{1}{4}$	4	264	44 $\frac{1}{2}$	13 $\frac{3}{4}$	9
322	13	9 $\frac{1}{8}$	6 $\frac{3}{8}$	265	56 $\frac{1}{2}$	15 $\frac{1}{4}$	11 $\frac{1}{4}$
322-I	13	7 $\frac{1}{2}$	6 $\frac{3}{8}$				
323	22 $\frac{1}{4}$	12 $\frac{5}{8}$	8 $\frac{1}{2}$	321	15 $\frac{1}{8}$	10 $\frac{1}{4}$	5 $\frac{1}{4}$
323-I	22 $\frac{1}{4}$	9	8 $\frac{1}{2}$	322	21 $\frac{3}{8}$	12 $\frac{3}{4}$	6 $\frac{5}{8}$
324	28 $\frac{3}{8}$	13 $\frac{3}{8}$	9 $\frac{1}{8}$	323	29 $\frac{3}{8}$	13 $\frac{1}{2}$	6 $\frac{1}{2}$
324-I	28 $\frac{3}{8}$	11	9 $\frac{1}{8}$	324	36 $\frac{1}{2}$	17 $\frac{1}{4}$	9
325	41	20	12 $\frac{3}{4}$	325	50 $\frac{1}{2}$	20 $\frac{1}{4}$	11 $\frac{1}{4}$
325-I	41	16 $\frac{3}{4}$	12 $\frac{3}{4}$	326	63 $\frac{3}{8}$	22 $\frac{1}{4}$	13 $\frac{3}{8}$
326	48 $\frac{7}{8}$	23 $\frac{1}{4}$	13				
326-I	48 $\frac{7}{8}$	23 $\frac{1}{4}$	13	351	21	10 $\frac{1}{4}$	5 $\frac{1}{4}$
				352	26 $\frac{3}{8}$	12 $\frac{3}{4}$	6 $\frac{5}{8}$
421	9 $\frac{7}{8}$	9 $\frac{7}{8}$	5 $\frac{7}{8}$	353	33 $\frac{3}{8}$	13 $\frac{1}{2}$	6 $\frac{1}{2}$
421-I	9 $\frac{7}{8}$	9 $\frac{7}{8}$	5 $\frac{7}{8}$	354	44 $\frac{1}{2}$	17 $\frac{1}{4}$	9
422	13	11 $\frac{3}{8}$	6 $\frac{3}{8}$	355	56 $\frac{1}{2}$	20 $\frac{1}{4}$	11 $\frac{1}{4}$
422-I	13	9 $\frac{1}{8}$	6 $\frac{3}{8}$				
423	24 $\frac{1}{4}$	15 $\frac{5}{8}$	8 $\frac{7}{8}$	421	15 $\frac{1}{8}$	13	5 $\frac{1}{4}$
423-I	22 $\frac{1}{4}$	12 $\frac{5}{8}$	8 $\frac{1}{2}$	422	21 $\frac{3}{8}$	14 $\frac{3}{4}$	6 $\frac{5}{8}$
424	30 $\frac{3}{4}$	17 $\frac{3}{8}$	9 $\frac{1}{8}$	423	29 $\frac{3}{8}$	17 $\frac{1}{8}$	6 $\frac{1}{2}$
424-I	28 $\frac{3}{8}$	13 $\frac{3}{8}$	9 $\frac{1}{8}$				
425	41	23 $\frac{1}{4}$	12 $\frac{3}{4}$	XU-221 222	11 $\frac{5}{8}$ 15 $\frac{1}{8}$	7 $\frac{3}{4}$ 9 $\frac{1}{2}$	5 $\frac{1}{4}$ 6 $\frac{1}{8}$
425-I	41	23 $\frac{1}{4}$	12 $\frac{3}{4}$	223	18 $\frac{1}{8}$	10 $\frac{1}{4}$	6 $\frac{1}{2}$
426	51 $\frac{7}{8}$	30 $\frac{1}{4}$	13	224	27 $\frac{1}{2}$	13 $\frac{3}{4}$	9
426-I	48 $\frac{7}{8}$	23 $\frac{1}{4}$	13	225	32 $\frac{1}{2}$	15 $\frac{1}{4}$	11 $\frac{1}{4}$
DU-221 222	7 $\frac{1}{4}$ 11 $\frac{7}{8}$	5 $\frac{1}{4}$ 9 $\frac{7}{8}$	4 6 $\frac{1}{4}$	262	15 $\frac{1}{8}$	9 $\frac{1}{2}$	6 $\frac{5}{8}$
223	18 $\frac{3}{8}$	12 $\frac{5}{8}$	8 $\frac{7}{8}$	263	18 $\frac{1}{8}$	13 $\frac{1}{2}$	6 $\frac{1}{2}$
224	20 $\frac{3}{8}$	13 $\frac{3}{8}$	9 $\frac{7}{8}$	264	27 $\frac{1}{2}$	13 $\frac{3}{4}$	9
225	30 $\frac{7}{8}$	16 $\frac{3}{4}$	12 $\frac{3}{4}$	265	32 $\frac{1}{2}$	15 $\frac{1}{4}$	11 $\frac{1}{4}$
226	36 $\frac{1}{2}$	16 $\frac{3}{4}$	13	266	42 $\frac{1}{2}$	18 $\frac{1}{4}$	13 $\frac{3}{4}$
321	9 $\frac{5}{8}$	7 $\frac{3}{4}$	4 $\frac{5}{8}$	321	11 $\frac{5}{8}$	10 $\frac{1}{4}$	5 $\frac{1}{4}$
322	11 $\frac{7}{8}$	9 $\frac{7}{8}$	6 $\frac{1}{4}$	322	15 $\frac{1}{8}$	12 $\frac{3}{4}$	6 $\frac{5}{8}$
323	18 $\frac{3}{8}$	12 $\frac{5}{8}$	8 $\frac{7}{8}$	323	18 $\frac{1}{8}$	13 $\frac{1}{2}$	6 $\frac{1}{2}$
324	20 $\frac{3}{8}$	13 $\frac{3}{8}$	9 $\frac{7}{8}$	324	27 $\frac{1}{2}$	17 $\frac{1}{4}$	9
325	30 $\frac{7}{8}$	20	12 $\frac{3}{4}$	325	32 $\frac{1}{2}$	20 $\frac{1}{4}$	11 $\frac{1}{4}$
326	36 $\frac{1}{2}$	23 $\frac{1}{4}$	13	326	42 $\frac{1}{2}$	22 $\frac{1}{4}$	13 $\frac{3}{4}$
421	9 $\frac{7}{8}$	9 $\frac{7}{8}$	5 $\frac{7}{8}$	352	15 $\frac{1}{8}$	12 $\frac{3}{4}$	6 $\frac{5}{8}$
422	13	11 $\frac{3}{8}$	6 $\frac{3}{8}$	353	18 $\frac{1}{8}$	13 $\frac{1}{2}$	6 $\frac{1}{2}$
423	24 $\frac{1}{4}$	15 $\frac{5}{8}$	8 $\frac{7}{8}$	354	27 $\frac{1}{2}$	17 $\frac{1}{4}$	9
424	30 $\frac{3}{4}$	17 $\frac{3}{8}$	9 $\frac{1}{8}$	355	32 $\frac{1}{2}$	20 $\frac{1}{4}$	11 $\frac{1}{4}$
425	30 $\frac{3}{4}$	29	12 $\frac{3}{4}$	356	42 $\frac{1}{2}$	22 $\frac{1}{4}$	13 $\frac{3}{4}$
426	36 $\frac{1}{2}$	30 $\frac{1}{4}$	13				
				421	11 $\frac{5}{8}$	13	5 $\frac{1}{4}$
JHF-221 222	9 $\frac{7}{8}$ 13	7 $\frac{1}{16}$ 7 $\frac{1}{16}$	6 6 $\frac{1}{2}$	422	15 $\frac{1}{8}$	14 $\frac{3}{4}$	6 $\frac{5}{8}$
223	22 $\frac{1}{4}$	9	8 $\frac{7}{8}$	423	18 $\frac{1}{8}$	17 $\frac{1}{8}$	6 $\frac{1}{2}$
224	28 $\frac{3}{8}$	11	9 $\frac{1}{4}$	424	27 $\frac{1}{2}$	21 $\frac{1}{2}$	11 $\frac{1}{4}$
261	16 $\frac{3}{8}$	9 $\frac{7}{8}$	6 $\frac{1}{2}$	452	15 $\frac{1}{8}$	14 $\frac{3}{4}$	6 $\frac{5}{8}$
262	16 $\frac{3}{8}$	9 $\frac{7}{8}$	6 $\frac{1}{2}$	453	18 $\frac{1}{8}$	17 $\frac{1}{8}$	6 $\frac{1}{2}$
263	28 $\frac{3}{8}$	11	9 $\frac{1}{4}$				
264	30 $\frac{7}{8}$	13 $\frac{3}{8}$	9 $\frac{1}{4}$				

for safety switch application data, see catalog section 30-200, pages 13-16

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