

Hazardous Location Switch



NEMA 7/9—Hazardous Location Disconnect Switch

Application Description

The cast aluminum enclosure is ideally suited for harsh industrial applications including but not limited to petrochemical facilities, mining operations, pharmaceutical plants and wastewater treatment facilities.

Product Description

Type DS switch is used as the switching device in a NEMA 7/9 enclosure. Ratings are 30–100A, 600 Vac, fusible and non-fusible.

Features

- 30–100A
- 600 Vac 250V dc
- Rugged NEMA 7/9 rated enclosure
- Fusible and non fusible
- Horsepower rated
- 3 pole, 3 wire
- Field installable auxiliaries
- Optional breather, grounding stud and nameplates available
- 200A moulded case switch or breaker in NEMA 7/9 enclosure available via Eaton regional satellite locations in Canada

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Standards and Certifications

Compliances

UL Classified— Standard 886 File No. E84577	CSA Certified— Standard C22.2 File No. LR 42131-6
Class I, Division 1 and 2, Groups B, C and D	Class I, Division 1 and 2, Groups B, C and D
Class II, Division 1 and 2, Groups E, F and G	Class II, Division 1 and 2, Groups E, F and G
Class III, Division 1 and 2	Class III, Division 1 and 2
NEMA 7/9	NEMA 7/9
Zone 1, IIB + H ₂	Zone 1, IIB + H ₂



Product Selection

DS361UX



NEMA 7/9 Enclosure Sizes—Fusible ①

Ampere Rating	Maximum Horsepower Ratings			Fuse Class Provision	Number of Poles	Voltage	Enclosure Number	Catalogue Number
	Three-Phase AC 480V	600V	DC 250V					
30	15	20	5	J	3	600 Vac, 125/250 Vdc	1 ^②	DS361FX
60	30	50	10	J	3	600 Vac, 125/250 Vdc	2 ^②	DS362FX
100	60	75	20	J	3	600 Vac, 125/250 Vdc	3	DS363FX

NEMA 7/9 Enclosure Sizes—Non-Fusible ①

Ampere Rating	Maximum Horsepower Ratings			Fuse Class Provision	Number of Poles	Voltage	Enclosure Number	Catalogue Number
	Three-Phase AC 480V	600V	DC 250V					
30	15	20	5	—	3	600 Vac, 125/250 Vdc	1 ^②	DS361UX
60	30	50	10	—	3	600 Vac, 125/250 Vdc	1 ^②	DS362UX
100	60	75	20	—	3	600 Vac, 125/250 Vdc	2 ^②	DS363UX

Dimensions

Approximate Dimensions in Inches (mm)

Catalogue Number	Standard Conduit Size
DS361FX	1.50 (38.1)
DS362FX	2.00 (50.8)
DS363FX	2.50 (63.5)
DS361UX	1.50 (38.1)
DS362UX	1.50 (38.1)
DS363UX	2.00 (50.8)

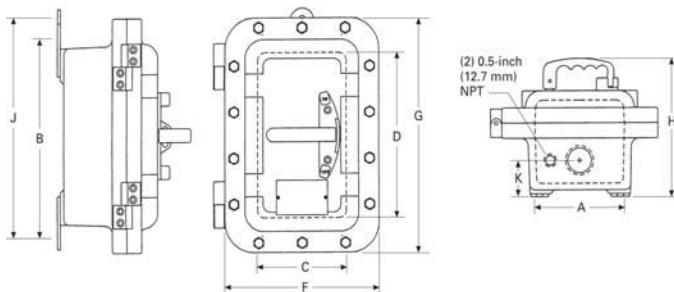
Terminal Capacity

Ampere	Line/Load per Phase Min - Max Copper	Line/Load per Phase Min - Max Aluminum
30A	#14 - #2	#12 - #2
60A	#14 - #2	#12 - #2
100A	#14 - 1/0	#12 - 1/0

NEMA 7/9 Fusible and Non-Fusible Dimensions - via Enclosure Number

Enclosure Number	Mounting Dimensions			Inside Dimensions		Outside Dimensions			Number of Outlets	Dimension K	Approximate Weight Lbs (kg)
	A	B	J	C	D	F	G	H			
1	5.50 (139.7)	13.13 (333.5)	14.13 (358.9)	5.94 (150.9)	10.75 (273.1)	10.63 (270.0)	15.25 (387.4)	8.84 (224.5)	2 (1.5 In. Dia.)	2.00 (50.8)	38 (17)
2	6.00 (152.4)	18.00 (457.2)	19.00 (482.6)	6.50 (165.1)	16.00 (406.4)	11.00 (279.4)	20.50 (520.7)	8.97 (227.8)	2 (1.5 In. Dia.)	2.31 (58.6)	57 (26)
3	10.25 (260.4)	22.63 (574.8)	—	11.75 (298.4)	20.00 (508.0)	16.38 (416.1)	25.13 (638.3)	9.59 (243.6)	2 (1.5 In. Dia.)	3.50 (88.9)	104 (47)

NEMA 7/9—30–100A ②



Notes

① Accessories and modifications shown on **Pages 12 through 14** are NOT applicable to NEMA 7/9 disconnect switches.

② Dual three- and four-point mounting available as standard on enclosures 1 and 2.

For field installable auxiliary contacts order. **178C265G05** - 30-100A 1NO/1NC, **178C265G06** - 30-100A 2NO/2NC.

Breather/drain group B (1) including outlets and installation, catalogue suffix **BR**.

External ground stud (3/8"), catalogue suffix **ES**.