Heavy Duty Safety Switches

Enclosed Solar Photovoltaic (PV) Switches

Selection

Application

Solar disconnect switches are designed to be used in the DC portion of photovoltaic power generation circuits. They incorporate powerful magnets within the switch line base which work in combination with a double break switching action to quickly dissipate the very hot arc that is generated when a 600V DC circuit is opened under load. These circuits are defined by article 690 of the NEC which requires the grounded conductor to be at ground potential at all times and therefore cannot be switched.

Description

30-200A switches are available in both Type 1 and 3R enclosures and in both fusible and non–fusible versions. They are provided with an additional door mounted warning label as required by the NEC and are supplied with a factory installed equipment ground bar. They are built to UL98 requirements but are UL listed in file number E335018 as UL1741 photovoltaic disconnect switches. They are 3 pole switches that are approved to switch 3 separate 600V DC circuits (one per pole). The design incorporates

many of the standard VBII switch features including a rolled out enclosure front flange, a large metal operating handle, oversized line and load lugs and large wire gutters. 1000VDC photovoltaic switches are UL98B listed for solar applications and comply with article 690 of the NEC. The new 400-600Amp switches are also UL98B listed at 600VDC and come in NEMA Type 3R.

Solar Photovoltaic Enclosed Disconnect Switches

	In	Indoor – Type 1				Outdoor – Type 3R				Rated Isc
Ampere Rating	Ca	ntalog Nur	Ship W		Catalog Numb	er	Ship W Std. Pk		Per NEC Article 690	
Negativ	/e (round	3 Pole	3 Wire	Fu	sible 600Vd	olt DC			
30	H	361PV	14 HF361RPV			15		19.2 A		
60	H	362PV	20		HF362RPV	21		38.4 A		
100	H	363PV▲	25	HF363RPV			26		64.0 A	
200	H	364PV▲	49		HF364RPV	50		128.0 A		
Negativ	/e (round	3 Pole	3 Wire	No	n-Fusible 6	oV00	It DC		
30	Н	NF361PV	12		HNF361RPV	13		24.0 A		
60	Н	NF362PV	19		HNF362RPV		20		48.0 A	
100	Н	NF363PV▲	24		HNF363RPV		25		80.0 A	
200	HI	NF364PV▲	47		HNF364RPV	48		160.0 A		
Positive	e ar	nd Nega	ative Gr	ound,	1 P	ole, Fusible	1000	Volt	DC	
200	H	1104NPV	A	52		HF1104NRPV▲		53		128.0 <i>A</i>
Positive	e ar	nd Nega	ative Gr	ound,	1 P	ole, Non-Fi	usible	1000	Vol	t DC
200	Н	NF1104NP	50	0 HNF1104NRPV▲		'	51		160.0A	
Positive	e G	round 3	Pole 3	Wire	Fus	ible 600Vol	t DC			
30	Н	361PVPG		14		HF361RPVPG		15		19.2 A
60	Н	362PVPG	20		HF362RPVPG		21		38.4 A	
100	Н	363PVPG	25		HF363RPVPG▲		26		64.0 A	
200	Н	364PVPG	49 HF364RPVPG▲			50		128.0 A		
Positive	G	round 3	Pole 3	Wire	Nor	n-Fusible 60	0Volt	DC		
30	HNF361PVPG			12		HNF361RPVPG		13		24.0 A
60	Н	NF362PVP	19		HNF362RPVPG		20		48.0 A	
100	00 HNF363PVPG▲			24		HNF363RPVPG▲		25		80.0 A
200	200 HNF364PVPG ▲			47 HNF364RPVPG		i	48		160.0 A	
Positive	e ar	nd Nega	ative Gr	ound,	2 V	Vire, 600Vo	It DC,	Туре	3R	
Amperage Rating		No. Poles	Fuse Type		Catalog Number				Rated Isc Per NEC Article 690	

HF165NRPV▲

HF166NRPV▲

HNF165NRPV▲

HNF166NRPV▲



HF362RPV

Note: All disconnects are rated at 10,000 AlC per UL requirements when used with or protected by Class K, J or R fuses rated at 600VDC.

165

127

167

129

256A

256A

384A

384A

1

1

1

Fusible

Fusible

Non-fusible

Non-fusible

400A

400A

600A

600A





[▲] Built to order. Allow 6–8 weeks for delivery.

^{*} In pounds (lbs)