TABLE 3-3.9.1 HAZARD RISK CATEGORY CLASSIFICATIONS

Task (Assumes Equipment is Energized, and Work is Done Within the Flash Protection Boundary)

V-RATED TOOLS
V-RATED GLOVES
HAZARD/RISK CATEGORY

TASK

V-RATED TOOLS
V-RATED GLOVES
HAZARD/RISK CATEGORY

TASK HAZARD/RISK CATEGO	ORY			TASK HAZARD/RISK CATEGO	RY		
Panelboards rated 240 V and below - Notes 1 and	12	888888	22222	Other 600 V Class (277 V through 600 V, nominal	Y88888	38888	
	2000000	888888	20000003	Equipment - Note 3 (Continued)	1		
Circuit breaker (CB) or fused switch operation with covers on	0	Ν	N	Equipment - Note 3 (Continued)			
CB or fused switch operation with covers off	0	N	N	Application of safety grounds, after voltage test	*2	Υ	N
Work on energized parts, including voltage testing	.1		Y	Revenue meters (kW-hour, at primary voltage and current)	-	-	-
Remove/install CBs or fused switches	1	Y		Insertion or removal	*2	Y	N
Removal of bolted covers (to expose bare, energized parts)	1	N		Cable trough or tray cover removal or installation	1	N	N
Opening hinged covers (to expose bare, energized parts)	0	Ν	N	Miscellaneous equipment cover removal or installation	1	N	N
9				Work on energized parts, including voltage testing	*2		Y
Panelboards or Switchboards rated >240 V and up to 60				Application of safety grounds, after voltage test	*2	Υ	N
molded case or insulated case circuit breakers) - Notes	1 a	nd	3				
CB or fused switch operation with covers on	0	N	N	NEMA E2 (fused contactor) Motor Starters, 2.3 kV throug	h 7	2	ĸ۷
CB or fused switch operation with covers off	1		N	Contactor operation with enclosure doors closed	0	N	N
Work on energized parts, including voltage testing			Y	Reading a panel meter while operating a meter switch	0		N
3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	-			Contactor operation with enclosure doors open	*2		N
600 V Class Motor Control Centers (MCCs) - Note	5 2			Work on energized parts, including voltage testing	3		Y
(except as indicated) and 3				Work on control circuits with energized parts 120 V or below, exposed	0	Y	Y
(except as maidated) and o				Work on control circuits with energized parts > 120 V, exposed	3	Y	
CB or fused switch or starter operation with enclosure doors closed	0	Ν	N	Insertion or removal (racking) of starters from cubicles, doors open	3		N
Reading a panel meter while operating a meter switch	0	N	N	Insertion or removal (racking) of starters from cubicles, doors closed	2		N
CB or fused switch or starter operation with enclosure doors open	1	N	N	Application of safety grounds, after voltage test	3	Y	
Work on energized parts, including voltage testing	2	Y	Y	Removal of bolted covers (to expose bare, energized parts)		N	
Work on control circuits with energized parts 120 V	2	72	-	Opening hinged covers (to expose bare, energized parts)		N	
or below, exposed	0	Y	Y				0.00
Work on control circuits with energized parts > 120 V, exposed	*2	Y	Y	Metal Clad Switchgear, 1 kV and above			
Insertion or removal of individual starter "buckets" from MCC - Note 4	3	Y	N		**********		
Application of safety grounds, after voltage test	*2	Y	N	CB or fused switch operation with enclosure doors closed		N	
Removal of bolted covers (to expose bare, energized parts	*2	N	N	Reading a panel meter while operating a meter switch	0	N	
Opening hinged covers (to expose bare, energized parts)	1	N	N	CB or fused switch operation with enclosure doors open	4	N	
				Work on energized parts, including voltage testing	4		Y
600 V Class Switchgear (with power circuit break	ers			Work on control circuits with energized parts 120 V or below, exposed	2	Y	Y
or fused switches) - Notes 5 and 6				Work on control circuits with energized parts > 120 V, exposed	4	Y	
				Insertion or removal (racking) of CBs from cubicles, doors open		N	
CB or fused switch operation with enclosure doors closed	0	N	N	Insertion or removal (racking) of CBs from cubicles, doors closed	2	N	
Reading a panel meter while operating a meter switch	0	N		Application of safety grounds, after voltage test	4		N
CB or fused switch operation with enclosure doors open	1	N	N	Removal of bolted covers (to expose bare, energized parts)	4		N
Work on energized parts, including voltage testing	*2	Υ		Opening hinged covers (to expose bare, energized parts)	3	N	N
Work on control circuits with energized parts 120 V or below, exposed		Υ		Opening voltage transformer of control power transformer			
Work on control circuits with energized parts > 120 V, exposed			Υ	compartments	4	N	N
Insertion or removal (racking) of CBs from cubicles, doors open		N					
Insertion or removal (racking) of CBs from cubicles, doors closed		N		Other Equipment 1 kV and above			
Application of safety grounds, after voltage test		Υ		Metal Clad load interrupter switches, fused or unfus	sed		
Removal of bolted covers (to expose bare, energized parts)	3	N		Suitab apartian deem alegad	2	N.I.	N.I
Opening hinged covers (to expose bare, energized parts)	2	N	N	Switch operation, doors closed		N	
		_		Work on energized parts, including voltage testing		Y	
Other 600 V Class (277 V through 600 V, nomina	il)			Removal of bolted covers (to expose bare, energized parts)		N	
Equipment - Note 3				Opening hinged covers (to expose bare, energized parts)		N	
Lighting or small power transformers (COO.) (maximum)				Outdoor disconnect switch operation (hookstick operated)		Y	
Lighting or small power transformers (600 V, maximum) Removal of bolted covers (to expose bare, energized parts)	**	N.	NI	Outdoor disconnect switch operation (gang-operated, from grade)		N	
Opening hinged covers (to expose bare, energized parts)	*2		N	Insulated cable examination, in manhole or other confined space	4	Y	
Work on energized parts, including voltage testing	1		N	Insulated cable examination, in open area	2	T	14
voit of energized parts, including voltage testing	2	i	1				
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LEGENDS:

TASK

V-rated Gloves are gloves rated and tested for the maximum line-to-line voltage upon which work will be done.

V-rated Tools are tools rated and tested for the maximum line-to-line voltage upon which work wil be done.

*2 means that a double-layer switching hood and hearing protection are required for this task in addition to the other Hazard/Risk Category 2 requirements of Table 3-3.9.2 of Part II.

Y = yes (required) N = no (not required)

NOTES:

- 1) 25 kA short circuit current available, 0.03 second (2 cycle) fault clearing time
- 2) 65 kA short circuit current available, 0.03 second (2 cycle) fault clearing time
- For <10 kA short circuit current available, the Hazard/Risk Category required may be reduced by one Number.
- 4) 65 kA short circuit current available, 0.33 second (20 cycle) fault clearing time
- 5) 65 kA short circuit current available, up to 1.0 second (60 cycle) fault clearing
- For <25 kA short circuit current available, the Hazard/Risk Category required may be reduced by one Number.

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