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**Surge-protective Devices**

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CITEL AMERICA INC  
 10108 USA Today Way  
 Miramar, FL 33025 USA

E326289

Model No.	SPD Type	Volts (V)	AC/DC/ DC PV	PH	AMPS (A)	AMB (°C)Min	AMB (°C)Max	MODE	VPR (Vpk)	MCOV (V)	In (kA)	SCCR (kA)
<b>Open-Type SPD</b>												
DS100PV-1000	1	480/277	AC	3Y	n/a	-35	60	L-L L-N L-G N-G	2500 2500 1500 1500	680 680 420 420	20	100
DS100PV-500	1	480/277	AC	3Y	n/a	-35	60	L-L L-N L-G N-G	2500 2500 1500 1500	680 680 420 420	20	100
DS100PVS-1000	1	480/277	AC	3Y	n/a	-35	60	L-L L-N L-G N-G	2500 2500 1500 1500	680 680 420 420	20	100
DS100PVS-500	1	480/277	AC	3Y	n/a	-35	60	L-L L-N L-G N-G	2500 2500 1500 1500	680 680 420 420	20	100
DS41-400	1	277	AC	1	n/a	-35	60	L-G	1500	420	20	100
DS41-480	1	480	AC	1	n/a	-35	60	L-G	1800	550	20	100
DS41-690	1	277	AC	1	n/a	-35	60	L-G	1500	420	20	100
DS41S-400	1	277	AC	1	n/a	-35	60	L-G	1500	420	20	100
DS41S-480	1	480	AC	1	n/a	-35	60	L-G	1800	550	20	100
DS42-400	1	480/277	AC	3Y	n/a	-35	60	L-L L-G	2500 1500	680 420	20	100
DS42-480	1	480/277	AC	3Y	n/a	-35	60	L-L L-N	4000 1800	550 550	20	100
DS42-690	1	480/277	AC	3Y	n/a	-35	60	L-L	2500	680	20	100
DS42S-400	1	480/277	AC	3Y	n/a	-35	60	L-L L-G	2500 1500	680 420	20	100
DS42S-480	1	480/277	AC	3Y	n/a	-35	60	L-L L-N	4000 1800	550 550	20	100
DS42S-690	1	480/277	AC	3Y	n/a	-	60	L-L	2500	680	20	100
DS43-400	1	480/277	AC	3Y	n/a	-35	60	L-L L-N L-G N-G	2500 1500 1500 1500	680 420 420 420	20	100
DS43-480	1	480	AC	3D	n/a	-35	60	L-L L-G	4000 1800	550 550	20	100
DS43-690	1	480/277	AC	3Y	n/a	-35	60	L-L L-N L-G N-G	2500 1500 1500 1500	680 420 420 420	20	100
DS43S-400	1	480/277	AC	3Y	n/a	-35	60	L-L L-N L-G N-G	2500 1500 1500 1500	680 420 420 420	20	100
DS43S-480	1	480	AC	3D	n/a	-35	60	L-L L-G	4000 1800	550 550	20	100

DS43S-690	1	480/277	AC	3Y	n/a	-35	60	L-L L-N L-G N-G	2500 1500 1500 1500	680 420 420 420	20	100
DS44-400	1	480/277	AC	3Y	n/a	-35	60	L-L L-N L-G N-G	2500 1500 1500 1500	680 420 420 420	20	100
DS44-480	1	480/277	AC	3Y	n/a	-35	60	L-L L-N L-G N-G	4000 4000 1800 1800	550 550 550 550	20	100
DS44-690	1	480/277	AC	3Y	n/a	-35	60	L-L L-N L-G N-G	2500 1500 1500 1500	680 420 420 420	20	100
DS44S-400	1	480/277	AC	3Y	n/a	-35	60	L-L L-N L-G N-G	2500 1500 1500 1500	680 420 420 420	20	100
DS44S-480	1	480/277	AC	3Y	n/a	-35	60	L-L L-N L-G N-G	4000 4000 1800 1800	550 550 550 550	20	100
DS44S-690	1	480/277	AC	3Y	n/a	-35	60	L-L L-N L-G N-G	2500 1500 1500 1500	680 420 420 420	20	100
DS44US-480D	1	480	AC	3D	n/a	-35	60	L-L L-G	1800 1800	550 550	20	100
DS44US-600D	1	600	AC	3D	n/a	-35	60	L-L L-G	2500 2500	840 840	20	100
DS50PV-1000	1	480/277	AC	3Y	n/a	-35	60	L-L L-N L-G N-G	2500 1500 1500 1500	680 420 420 420	20	100
DS50PV-500	1	480/277	AC	3Y	n/a	-35	60	L-L	2500	680	20	100
DS50PV-600	1	480/277	AC	3Y	n/a	-35	60	L-L L-N	4000 1800	550 550	20	100
DS50PVS-1000	1	480/277	AC	3Y	n/a	-35	60	L-L L-N L-G N-G	2500 1500 1500 1500	680 420 420 420	20	100
DS50PVS-500	1	480/277	AC	3Y	n/a	-	60	L-L	2500	680	20	100
DS50PVS-600	1	480/277	AC	3Y	n/a	-35	60	L-L L-N	4000 1800	550 550	20	100
DS71R-400	1	277	AC	1	n/a	-35	60	L-G	1500	420	20	100
DS71R-600	1	600	AC	3D	n/a	-35	60	L-L L-G	3000 3000	690 690	20	100
DS71RS-400	1	277	AC	1	n/a	-35	60	L-G	1500	420	20	100
DS71RS-600	1	600	AC	3D	n/a	-35	60	L-L L-G	3000 3000	690 690	20	100
DS71U-210	1	120	AC	1	n/a	-35	85	L-G	800	210	20	200
DS71U-275	1	120	AC	1	n/a	-35	85	L-G	900	275	20	200
DS71U-420	1	277	AC	1	n/a	-35	85	L-G	1500	420	20	200
DS71U-460	1	347	AC	1	n/a	-35	85	L-G	1500	460	20	200
DS71UG-600	1	0	AC	1	n/a	-35	85	N-G	1000	255	20	0
DS71US-210	1	120	AC	1	n/a	-35	85	L-G	800	210	20	200
DS71US-275	1	120	AC	1	n/a	-35	85	L-G	900	275	20	200
DS71US-420	1	277	AC	1	n/a	-35	85	L-G	1500	420	20	200
DS71US-460	1	347	AC	1	n/a	-35	85	L-G	1500	460	20	200
DS72R-400	1	480/277	AC	3Y	n/a	-35	60	L-L L-N L-G N-G	2500 2500 1500 1500	680 680 420 420	20	100
DS72R-600	1	600	AC	3D	n/a	-35	60	L-L L-G	3000 3000	690 690	10	100
DS72RS-400	1	480/277	AC	3Y	n/a	-35	60	L-L L-N L-G N-G	2500 2500 1500 1500	680 680 420 420	20	100
DS72RS-600	1	600	AC	3D	n/a	-35	60	L-L	3000	690	20	100

								L-G	3000	690		
DS72U-120S	1	120	AC	1	n/a	-35	85	L-N L-G N-G	800 1200 700	210 360 150	20	200
DS72U-230S	1	230	AC	1	n/a	-35	85	L-N L-G N-G	1000 1800 900	320 595 255	20	200
DS72U-230S/G	1	230	AC	1	n/a	-35	85	L-N L-G N-G	1000 1200 1200	320 320 255	20	200
DS72US-120S	1	120	AC	1	n/a	-35	85	L-N L-G N-G	800 1200 700	210 360 150	20	200
DS72US-120S/G	1	120	AC	1	n/a	-35	85	L-N L-G N-G	800 1500 1200	210 255 255	20	200
DS72US-120T/NN	1	240/120	AC	1S	n/a	-	85	L-L L-G	1200 800	420 210	20	200
DS72US-230S	1	230	AC	1	n/a	-35	85	L-N L-G N-G	1000 1800 900	320 595 275	20	200
DS72US-230S/G	1	230	AC	1	n/a	-35	85	L-N L-G N-G	1000 1200 1200	320 320 255	20	200
DS73R-400	1	480/277	AC	3Y	n/a	-35	60	L-L L-N L-G N-G	2500 2500 1500 1500	680 680 420 420	20	100
DS73R-600	1	600	AC	3D	n/a	-35	60	L-L L-G	3000 3000	690 690	20	100
DS73RS-400	1	480/277	AC	3Y	n/a	-35	60	L-L L-N L-G N-G	2500 2500 1500 1500	680 680 420 420	20	100
DS73RS-600	1	600	AC	3D	n/a	-35	60	L-L L-G	3000 3000	690 690	20	100
DS73U-120T	1	240/120	AC	1S	n/a	-35	85	L-L L-N L-G N-G	1200 800 1200 700	420 210 360 150	20	200
DS73U-120T/G	1	240/120	AC	1S	n/a	-35	85	L-L L-N L-G N-G	1200 800 1500 1200	420 210 255 255	20	200
DS73US-120T/G	1	240/120	AC	1S	n/a	-35	85	L-L L-N L-G N-G	1200 800 1500 1200	420 210 255 255	20	200
DS73US-120Y/NN	1	208/120	AC	3Y	n/a	-35	85	L-L L-G	1200 700	300 150	20	200
DS73US-240T	1	480/240	AC	1S	n/a	-35	85	L-L L-N L-G N-G	2500 1500 2500 2500	840 420 740 320	20	200
DS73US-240T/G	1	480/240	AC	1S	n/a	-35	85	L-L L-N L-G N-G	2500 1500 1500 1000	840 420 420 255	20	200
DS73US-240T/NN	1	480/240	AC	1S	n/a	-35	85	L-L L-G	2500 1500	840 420	20	200
DS73US-277Y/NN	1	480/277	AC	3Y	n/a	-35	85	L-L L-G	2500 1500	840 420	20	200
DS74R-400	1	480/277	AC	3Y	n/a	-35	60	L-L L-N L-G N-G	2500 2500 1500 1500	680 680 420 420	20	100
DS74R-600	1	600	AC	3D	n/a	-35	60	L-L L-G	3000 3000	690 690	20	100
DS74RS-400	1	480/277	AC	3Y	n/a	-35	60	L-L L-N L-G N-G	2500 2500 1500 1500	680 680 420 420	20	100
DS74RS-600	1	600	AC	3D	n/a	-35	60	L-L L-G	3000 3000	690 690	20	100
DS74U-120Y	1	208/120	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	1200 800 1200 700	300 150 300 150	20	200
DS74U-120Y/G	1	208/120	AC	3Y	n/a	-35	85	L-L	1000	300	20	200

									L-N L-G N-G	700 1500 1200	150 255 255		
DS74U-230Y	1	400/230	AC	3Y	n/a	-35	85		L-L L-N L-G N-G	1800 1000 1800 900	640 320 595 275	20	200
DS74U-230Y/G	1	400/230	AC	3Y	n/a	-35	85		L-L L-N L-G N-G	1800 1000 1200 1200	640 320 320 255	20	200
DS74U-240D	1	240	AC	3D	n/a	-35	85		L-L L-G	1000 1000	300 300	20	200
DS74U-240D/G	1	240	AC	3D	n/a	-35	85		L-L L-G	1500 1000	550 275	20	200
DS74U-240Y	1	415/240	AC	3Y	n/a	-35	85		L-L L-N L-G N-G	1800 1000 1800 900	640 320 595 275	20	200
DS74U-240Y/G	1	415/240	AC	3Y	n/a	-35	85		L-L L-N L-G N-G	1800 1000 1200 1200	640 320 320 255	20	200
DS74U-277Y	1	480/277	AC	3Y	n/a	-35	85		L-L L-N L-G N-G	2500 1500 2500 1000	840 420 740 320	20	200
DS74U-277Y/G	1	480/277	AC	3Y	n/a	-35	85		L-L L-N L-G N-G	2500 1500 1500 1200	840 420 420 320	20	200
DS74U-347Y	1	600/347	AC	3Y	n/a	-35	85		L-L L-N L-G N-G	3000 1500 3000 1500	920 460 880 420	20	200
DS74U-480D	1	480	AC	3D	n/a	-35	85		L-L L-G	1500 1500	550 550	20	200
DS74U-480D	2	480	AC	3D	n/a	-35	85		L-L L-G	1500 1500	550 550	20	200
DS74U-600D	1	600	AC	3D	n/a	-35	85		L-L L-G	2500 2500	840 840	20	200
DS74U-600D	2	600	AC	3D	n/a	-35	85		L-L L-G	2500 2500	840 840	20	200
DS74US-120Y	1	208/120	AC	3Y	n/a	-35	85		L-L L-N L-G N-G	1200 800 1200 700	300 150 300 150	20	200
DS74US-120Y/F	1	208/120	AC	3Y	n/a	-	85		L-L L-N L-G N-G	1200 800 1500 800	420 210 420 210	20	200
DS74US-120Y/G	1	208/120	AC	3Y	n/a	-35	85		L-L L-N L-G N-G	1000 700 1500 1200	300 150 255 255	20	200
DS74US-230Y	1	400/230	AC	3Y	n/a	-35	85		L-L L-N L-G N-G	1800 1000 1800 900	640 320 595 275	20	200
DS74US-230Y/G	1	400/230	AC	3Y	n/a	-35	85		L-L L-N L-G N-G	1800 1000 1200 1200	640 320 320 255	20	200
DS74US-240D	1	240	AC	3D	n/a	-35	85		L-L L-G	1000 1000	300 300	20	200
DS74US-240D/G	1	240	AC	3D	n/a	-35	85		L-L L-G	1500 1000	550 275	20	200
DS74US-240Y	1	415/240	AC	3Y	n/a	-35	85		L-L L-N L-G N-G	1800 1000 1800 900	640 320 595 275	20	200
DS74US-240Y/G	1	415/240	AC	3Y	n/a	-35	85		L-L L-N L-G N-G	1800 1000 1200 1200	640 320 320 255	20	200
DS74US-277Y	1	480/277	AC	3Y	n/a	-35	85		L-L L-N L-G N-G	2500 1500 2500 1000	840 420 740 320	20	200
DS74US-277Y/F	1	480/277	AC	3Y	n/a	-	85		L-L L-N	2500 1500	840 420	20	200

								L-G N-G	2500 1500	840 420		
DS74US-277Y/G	1	480/277	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	2500 1500 1500 1200	840 420 420 320	20	200
DS74US-347Y	1	600/347	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	3000 1500 3000 1500	920 460 880 420	20	200
DS74US-480D	2	480	AC	3D	n/a	-35	85	L-L L-G	2500 2500	550 550	20	200
DS74US-480D	1	480	AC	3D	n/a	-35	85	L-L L-G	1500 1500	550 550	20	200
DS74US-600D	2	600	AC	3D	n/a	-35	85	L-L L-G	2500 2500	840 840	20	200
DS74US-600D	1	600	AC	3D	n/a	-35	85	L-L L-G	2500 2500	840 840	20	200
DS75U-400Y	1	690/400	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	2500 1800 2000 1500	840 570 695 425	20	200
DS75US-400Y	1	690/400	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	2500 1800 2000 1500	840 570 695 425	20	200
MLPC1-277L-R-P	2	277	AC	1	n/a	0	85	L-N L-G N-G	1500 1800 1200	385 385 255	5	18
MLPC1-277L-R/50-P	2	277	AC	1	n/a	0	85	L-N L-G N-G	1500 1500 1500	385 385 255	5	18
MLPC1-277L-V	2	277	AC	1	5	0	85	L-N L-G N-G	1500 1500 1200	385 385 255	5	18
MLPC1-277L-V-P	2	277	AC	1	n/a	0	85	L-N L-G N-G	1500 1800 1200	385 385 255	5	18
MLPC1-277L-V/50	2	277	AC	1	5	0	85	L-N L-G N-G	1500 1500 1200	385 385 255	5	18
MLPC1-277L-V/50-P	2	277	AC	1	n/a	0	85	L-N L-G N-G	1500 1500 1500	385 385 255	5	18
<b>Permanently Connected</b>												
CAD1-120-WX-Y-Z (b)	1	120	AC	1	n/a	-35	-	L-G	800	150	20	100
CAD2-120B-WX-Y-Z (b)	1	240/120	AC	1S	n/a	-35	-	L-L L-G	1200 800	300 150	20	100
CAD2-120S-WX-Y-Z (b)	1	120	AC	1	n/a	-35	-	L-N L-G N-G	1200 800 700	300 150 150	20	100
CAD3-120T-WX-Y-Z (b)	1	240/120	AC	1S	n/a	-35	-	L-L L-N L-G N-G	1200 1200 800 700	300 300 150 150	20	100
CAD4-120D-WX-Y-Z (b)	1	240	AC	3D	n/a	-35	-	L-L L-G	1200 1200	300 300	20	100
CAD4-120HL-WX-Y-Z (b)	1	240/120	AC	3H	n/a	-35	-	L-L L-G	1200 1200	300 300	20	100
CAD4-120Y-WX-Y-Z (b)	1	208/120	AC	3Y	n/a	-35	-	L-L L-N L-G N-G	1200 1200 800 700	300 300 150 150	20	100
CDS70RS-120-x (c)	1	120	AC	1	n/a	-35	-	L-G	800	150	20	100
CDS70RS-120B-x (c)	1	240/120	AC	1S	n/a	-35	-	L-L L-G	1200 800	300 150	20	100
CDS70RS-120D-x (c)	1	240	AC	3D	n/a	-35	-	L-L L-G	1200 1200	300 300	20	100
CDS70RS-120S-x (c)	1	120	AC	1	n/a	-35	-	L-L L-N L-G N-G	1200 1200 800 800	300 300 150 150	20	100
CDS70RS-120T-x (c)	1	240/120	AC	1S	n/a	-35	-	L-L L-N L-G N-G	1200 1200 800 800	300 300 150 150	20	100
CDS70RS-120Y-x (c)	1	208/120	AC	3Y	n/a	-35	-	L-L	1200	300	20	100

								L-N L-G N-G	1200 800 800	300 150 150		
<b>CM80-120T (a), CM100-120T (a), CM160-120T (a), CM200-120T (a)</b>												
	2	240/120	AC	1S	n/a	-	-	L-L L-N L-G N-G	1500 800 800 800	300 150 150 150	3	200
<b>CM80-120Y (a), CM100-120Y (a), CM160-120Y (a), CM200-120Y (a)</b>												
	2	208/120	AC	3Y	n/a	-	-	L-L L-N L-G N-G	1500 800 800 800	300 150 150 150	3	200
<b>CM80-220Y (a), CM100-220Y (a), CM160-220Y (a), CM200-220Y (a)</b>												
	2	380/220	AC	3Y	n/a	-	-	L-L L-N L-G N-G	2000 1500 1200 1200	640 320 320 320	3	200
<b>CM80-240D (a), CM100-240D (a), CM160-240D (a), CM200-240D (a)</b>												
	2	240	AC	3D	n/a	-	-	L-L	2000	640	3	200
<b>CM80-240DCT (a), CM100-240DCT (a), CM160-240DCT (a), CM200-240DCT (a)</b>												
	2	240/120	AC	3H	n/a	-	-	L-L L-N L-G N-G H-L H-N H-G	1500 800 800 800 1500 1500 1200	470 150 150 150 470 320 320	3	200
<b>CM80-240Y (a), CM100-240Y (a), CM160-240Y (a), CM200-240Y (a)</b>												
	2	415/240	AC	3Y	n/a	-	-	L-L L-N L-G N-G	2000 1500 1200 1200	640 320 320 320	3	200
<b>CM80-277Y (a), CM100-277Y (a), CM160-277Y (a), CM200-277Y (a)</b>												
	2	480/277	AC	3Y	n/a	-	-	L-L L-N L-G N-G	2000 1500 1200 1200	640 320 320 320	3	200
<b>CM80-480D (a), CM100-480D (a), CM160-480D (a), CM200-480D (a)</b>												
	2	480	AC	3D	n/a	-	-	L-L	3000	1000	3	200
<b>M40-120S+</b>	1	120	AC	1	n/a	0	-	L-N L-G N-G	700 1200 700	150 300 0	20	100
<b>M40-120T+</b>	1	240/120	AC	1S	-	-	-	L-L L-N L-G N-G	1200 700 1200 700	300 150 300 0	20	100
<b>M40-230S+</b>	2	277	AC	1	-	-	-	L-N L-G N-G	1200 2500 1200	320 640 0	20	100
<b>M50-120S-A, M50-120S-B</b>	1	120	AC	1	n/a	-35	80	L-N L-G N-G	700 1200 1200	140 140 120	20	150
<b>M50-120T-A, M50-120T-B</b>	1	240/120	AC	1S	n/a	-35	80	L-L L-N L-G N-G	1200 700 1200 1200	280 140 140 120	20	150
<b>M50-120Y-A, M50-120Y-B</b>	1	208/120	AC	3Y	n/a	-35	80	L-L L-N L-G N-G	1200 700 1200 1200	280 140 140 120	20	150
<b>M50-230S-A, M50-230S-B</b>	1	230	AC	1	n/a	-35	80	L-L L-G L-N	1200 1500 1200	280 280 240	20	150
<b>M50-240D-A, M50-240D-B</b>	1	240	AC	3D	n/a	-35	80	L-L L-G	1200 1200	280 280	20	150
<b>M50-240T-A, M50-240T-B</b>	1	480/240	AC	1S	n/a	-35	80	L-L L-N L-G N-G	2500 1200 1500 1200	480 280 280 240	20	150
<b>M50-277Y-A, M50-277Y-B</b>	1	480/277	AC	3Y	n/a	-35	80	L-L L-N L-G N-G	2500 1200 1500 1200	560 320 320 280	20	150
<b>M50-480D-A, M50-480D-B</b>	1	480	AC	3D	n/a	-35	80	L-L L-G	2500 1500	560 560	20	150
<b>M50-600D-A, M50-600D-B</b>	1	600	AC	3D	n/a	-35	80	L-L	3000	690	20	200

								L-G	1800	690		
M50F-120S-A*, 50F-120S-B*	2	120	AC	1	n/a	-35	80	L-N L-G N-G	700 1200 1200	140 140 120	20	150
M50F-120T-A*, M50F-120T-B*	2	240/120	AC	1S	n/a	-35	80	L-L L-N L-G N-G	1200 700 1200 1200	280 140 140 120	20	150
M50F-120Y-A*, M50F-120Y-B*	2	208/120	AC	3Y	n/a	-35	80	L-L L-N L-G N-G	1200 700 1200 1200	280 140 140 120	20	150
M50F-230S-A*, M50F-240D-B*	2	230	AC	1	n/a	-35	80	L-L L-G L-N	1200 1500 1200	280 280 240	20	150
M50F-240D-A*, M50F-240D-B*	2	240	AC	3D	n/a	-35	80	L-L L-G	1200 1200	280 280	20	150
M50F-240T-A*, M50F-240T-B*	2	480/240	AC	1S	n/a	-35	80	L-L L-N L-G N-G	2500 1200 1200 1200	480 280 280 240	20	150
M50F-277Y-A*, M50F-277Y-B*	2	480/277	AC	3Y	n/a	-35	80	L-L L-N L-G N-G	2500 1200 1200 1200	560 320 320 280	20	150
M50F-480D-A*, M50F-480D-B*	2	480	AC	3D	n/a	-35	80	L-L L-G	2500 1200	560 560	20	150
M50F-600D-A*, M50F-600D-B*	2	600	AC	3D	n/a	-35	80	L-L L-G	3000 1800	690 690	20	200
<b>M80-120T (a), M100-120T (a),M160-120T (a), M200-120T (a)</b>												
	2	240/120	AC	1S	n/a	-	-	L-L L-N L-G N-G	1800 800 900 800	300 150 150 150	3	200
M80-120T+	1	240/120	AC	1S	n/a	0	-	L-L L-N L-G N-G	1000 800 1000 800	260 150 260 150	10	100
<b>M80-120Y (a), M100-120Y (a),M160-120Y (a), M200-120Y (a)</b>												
	2	208/120	AC	3Y	n/a	-	-	L-L L-N L-G N-G	1800 800 900 800	300 150 150 150	5	200
<b>M80-220Y (a), M100-220Y (a), M160-220Y (a), M200-220Y (a)</b>												
	2	380/220	AC	3Y	n/a	-	-	L-L L-N L-G N-G	2000 1200 1200 1200	640 320 320 320	5	200
<b>M80-240D (a), M100-240 (a), M160-240D (a), M200-240D (a)</b>												
	2	240	AC	3D	n/a	-	-	L-L	2000	640	5	200
<b>M80-240DCT (a), M100-240DCT (a), M160-240DCT (a), M200-240DCT (a)</b>												
	2	240/120	AC	3H	n/a	-	-	L-L L-N L-G N-G H-L H-N H-G	1800 800 900 800 1800 1500 1200	470 150 150 150 470 320 320	5	200
M80-240DCT+	2	240/120	AC	3H	n/a	0	-	L-L L-N L-G N-G H-L H-N H-G	1000 800 1500 1000 1500 1000 2000	300 150 470 320 470 320 640	10	65
<b>M80-240Y (a), M100-240Y (a), M160-240Y (a), M200-240Y (a)</b>												
	2	415/240	AC	3Y	n/a	-	-	L-L L-N L-G N-G	2000 1500 1200 1200	640 320 320 320	3	200
<b>M80-277Y (a), M100-277Y (a), M160-277Y (a), M200-277Y (a)</b>												
	2	480/277	AC	3Y	n/a	-	-	L-L L-N L-G N-G	2000 1500 1200 1200	640 320 320 320	3	200
<b>M80-480D (a), M100-480D (a), M160-480D (a), M200-480D, (a)</b>												
	2	480	AC	3D	n/a	-	-	L-L	3000	1000	5	200

MDS300-120T (d)	1	240/120	AC	1S	n/a	-35	85	L-L L-N L-G N-G	1800 1200 1200 900	420 210 210 150	20	200
MDS300-120T*(d)	2	240/120	AC	1S	n/a	-35	85	L-L L-N L-G N-G	1800 1200 1200 900	420 210 210 150	20	200
MDS300-120Y (d)	1	208/120	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	1500 1000 1000 900	300 150 150 150	20	200
MDS300-120Y*(d)	2	208/120	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	1500 1000 1000 900	300 150 150 150	20	200
MDS300-240D (d)	1	240	AC	3D	n/a	-35	85	L-L L-G	1500 1500	300 300	20	200
MDS300-240D*(d)	2	240	AC	3D	n/a	-35	85	L-L L-G	1500 1500	300 300	20	200
MDS300-240DCT (d)	1	240/120	AC	3H	n/a	-35	85	L-L L-N L-G N-G H-L H-N H-G	3000 1800 1800 3000 3000 1800 1800	840 420 420 840 840 420 420	20	200
MDS300-240DCT*(d)	2	240/120	AC	3H	n/a	-35	85	L-L L-N L-G N-G H-L H-N H-G	3000 1800 1800 3000 3000 1800 1800	840 420 420 840 840 420 420	20	200
MDS300-240Y (d)	1	415/240	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	2500 1800 1800 1200	640 320 320 275	20	200
MDS300-240Y*(d)	2	415/240	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	2500 1800 1800 1200	640 320 320 275	20	200
MDS300-277Y (d)	1	480/277	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	2500 1800 1800 1200	840 420 420 275	20	200
MDS300-277Y*(d)	2	480/277	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	2500 1800 1800 1200	840 420 420 275	20	200
MDS300-347Y (d)	1	600/347	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	3000 1800 1800 1800	920 460 460 420	20	200
MDS300-347Y*(d)	2	600/347	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	3000 1800 1800 1800	920 460 460 420	20	200
MDS300-480D (d)	1	480	AC	3D	n/a	-35	85	L-L L-G	2000 2000	550 550	20	200
MDS300-480D*(d)	2	480	AC	3D	n/a	-35	85	L-L L-G	2000 2000	550 550	20	200
MDS300E-120T (d)	1	240/120	AC	1S	n/a	-35	85	L-L L-N L-G N-G	1800 1200 1200 900	420 210 210 150	20	200
MDS300E-120T*(d)	2	240/120	AC	1S	n/a	-35	85	L-L L-N L-G N-G	1800 1200 1200 900	420 210 210 150	20	200
MDS300E-120Y (d)	1	208/120	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	1500 1000 1000 900	300 150 150 150	20	200
MDS300E-120Y*(d)	2	208/120	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	1500 1000 1000 900	300 150 150 150	20	200
MDS300E-240D (d)	1	240	AC	3D	n/a	-35	85	L-L L-G	1500 1500	300 300	20	200
MDS300E-240D*(d)	2	240	AC	3D	n/a	-35	85	L-L L-G	1500 1500	300 300	20	200
MDS300E-240DCT (d)	1	240/120	AC	3H	n/a	-35	85	L-L L-N	3000 1800	840 420	20	200



								L-G N-G H-L H-N H-G	1800 3000 3000 1800 1800	420 840 840 420 420		
MDS300E-240DCT*(d)	2	240/120	AC	3H	n/a	-35	85	L-L L-N L-G N-G H-L H-N H-G	3000 1800 1800 3000 3000 1800 1800	840 420 420 840 840 420 420	20	200
MDS300E-240Y (d)	1	415/240	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	2500 1800 1800 1200	640 320 320 275	20	200
MDS300E-240Y*(d)	2	415/240	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	2500 1800 1800 1200	640 320 320 275	20	200
MDS300E-277Y (d)	1	480/277	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	2500 1800 1800 1200	840 420 420 275	20	200
MDS300E-277Y*(d)	2	480/277	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	2500 1800 1800 1200	840 420 420 275	20	200
MDS300E-347Y (d)	1	600/347	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	3000 1800 1800 1800	920 460 460 420	20	200
MDS300E-347Y*(d)	2	600/347	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	3000 1800 1800 1800	920 460 460 420	20	200
MDS300E-480D (d)	1	480	AC	3D	n/a	-35	85	L-L L-G	2000 2000	550 550	20	200
MDS300E-480D*(d)	2	480	AC	3D	n/a	-35	85	L-L L-G	2000 2000	550 550	20	200
MDS300S-120 (d)	1	208/120	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	1500 1000 1000 900	300 150 150 150	20	200
MDS300S-120T (d)	1	240/120	AC	1S	n/a	-35	85	L-L L-N L-G N-G	1800 1200 1200 900	420 210 210 150	20	200
MDS300S-120T*(d)	2	240/120	AC	1S	n/a	-35	85	L-L L-N L-G N-G	1800 1200 1200 900	420 210 210 150	20	200
MDS300S-120Y*(d)	2	208/120	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	1500 1000 1000 900	300 150 150 150	20	200
MDS300S-240D (d)	1	240	AC	3D	n/a	-35	85	L-L L-G	1500 1500	300 300	20	200
MDS300S-240D*(d)	2	240	AC	3D	n/a	-35	85	L-L L-G	1500 1500	300 300	20	200
MDS300S-240DCT (d)	1	240/120	AC	3H	n/a	-35	85	L-L L-N L-G N-G H-L H-N H-G	3000 1800 1800 3000 3000 1800 1800	840 420 420 840 840 420 420	20	200
MDS300S-240DCT*(d)	2	240/120	AC	3H	n/a	-35	85	L-L L-N L-G N-G H-L H-N H-G	3000 1800 1800 3000 3000 1800 1800	840 420 420 840 840 420 420	20	200
MDS300S-240Y (d)	1	415/240	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	2500 1800 1800 1200	640 320 320 275	20	200
MDS300S-240Y*(d)	2	415/240	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	2500 1800 1800 1200	640 320 320 275	20	200
MDS300S-277Y (d)	1	480/277	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	2500 1800 1800 1200	840 420 420 275	20	200

MDS300S-277Y*(d)	2	480/277	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	2500 1800 1800 1200	840 420 420 275	20	200
MDS300S-347Y (d)	1	600/347	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	3000 1800 1800 1800	920 460 460 420	20	200
MDS300S-347Y*(d)	2	600/347	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	3000 1800 1800 1800	920 460 460 420	20	200
MDS300S-480D (d)	1	480	AC	3D	n/a	-35	85	L-L L-G	2000 2000	550 550	20	200
MDS300S-480D*(d)	2	480	AC	3D	n/a	-35	85	L-L L-G	2000 2000	550 550	20	200
MDS600-120T (d)	1	240/120	AC	1S	n/a	-35	85	L-L L-N L-G N-G	1800 1200 1200 900	420 210 210 150	20	200
MDS600-120T*(d)	2	240/120	AC	1S	n/a	-35	85	L-L L-N L-G N-G	1800 1200 1200 900	420 210 210 150	20	200
MDS600-120Y (d)	1	208/120	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	1500 1000 1000 900	300 150 150 150	20	200
MDS600-120Y*(d)	2	208/120	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	1500 1000 1000 900	300 150 150 150	20	200
MDS600-240D (d)	1	240	AC	3D	n/a	-35	85	L-L L-G	1500 1500	300 300	20	200
MDS600-240D*(d)	2	240	AC	3D	n/a	-35	85	L-L L-G	1500 1500	300 300	20	200
MDS600-240DCT (d)	1	240/120	AC	3H	n/a	-35	85	L-L L-N L-G N-G H-L H-N H-G	3000 1800 1800 3000 3000 1800 1800	840 420 420 840 840 420 420	20	200
MDS600-240DCT*(d)	2	240/120	AC	3H	n/a	-35	85	L-L L-N L-G N-G H-L H-N H-G	3000 1800 1800 3000 3000 1800 1800	840 420 420 840 840 420 420	20	200
MDS600-240Y (d)	1	415/240	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	2500 1800 1800 1200	640 320 320 275	20	200
	1	480/277	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	3000 1800 1800 1200	840 420 420 275	20	200
MDS600-240Y*(d)	2	415/240	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	2500 1800 1800 1200	640 320 320 275	20	200
	2	480/277	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	3000 1800 1800 1200	840 420 420 275	20	200
MDS600-347Y (d)	1	600/347	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	3000 1800 1800 1800	920 460 460 420	20	200
MDS600-347Y*(d)	2	600/347	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	3000 1800 1800 1800	920 460 460 420	20	200
MDS600-480D (d)	1	480	AC	3D	n/a	-35	85	L-L L-G	2000 2000	550 550	20	200
MDS600-480D*(d)	2	480	AC	3D	n/a	-35	85	L-L L-G	2000 2000	550 550	20	200
MDS600E-120T (d)	1	240/120	AC	1S	n/a	-35	85	L-L L-N L-G N-G	1800 1200 1200 900	420 210 210 150	20	200
MDS600E-120T*(d)	2	240/120	AC	1S	n/a	-35	85	L-L	1800	420	20	200

								L-N L-G N-G	1200 1200 900	210 210 150		
MDS600E-120Y (d)	1	208/120	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	1500 1000 1000 900	300 150 150 150	20	200
MDS600E-120Y*(d)	2	208/120	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	1500 1000 1000 900	300 150 150 150	20	200
MDS600E-240D (d)	1	240	AC	3D	n/a	-35	85	L-L L-G	1500 1500	300 300	20	200
MDS600E-240D*(d)	2	240	AC	3D	n/a	-35	85	L-L L-G	1500 1500	300 300	20	200
MDS600E-240DCT (d)	1	240/120	AC	3H	n/a	-35	85	L-L L-N L-G N-G H-L H-N H-G	3000 1800 1800 3000 3000 1800 1800	840 420 420 840 840 420 420	20	200
MDS600E-240DCT*(d)	2	240/120	AC	3H	n/a	-35	85	L-L L-N L-G N-G H-L H-N H-G	3000 1800 1800 3000 3000 1800 1800	840 420 420 840 840 420 420	20	200
MDS600E-240Y (d)	1	415/240	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	2500 1800 1800 1200	640 320 320 275	20	200
MDS600E-240Y*(d)	2	415/240	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	2500 1800 1800 1200	640 320 320 275	20	200
MDS600E-277Y (d)	1	480/277	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	2500 1800 1800 1200	840 420 420 275	20	200
MDS600E-277Y*(d)	2	480/277	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	2500 1800 1800 1200	840 420 420 275	20	200
MDS600E-347Y (d)	1	600/347	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	3000 1800 1800 1800	920 460 460 420	20	200
MDS600E-347Y*(d)	2	600/347	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	3000 1800 1800 1800	920 460 460 420	20	200
MDS600E-480D (d)	1	480	AC	3D	n/a	-35	85	L-L L-G	2000 2000	550 550	20	200
MDS600E-480D*(d)	2	480	AC	3D	n/a	-35	85	L-L L-G	2000 2000	550 550	20	200
MDS600S-120T (d)	1	240/120	AC	1S	-	-35	85	L-L L-N L-G N-G	1800 1200 1200 900	420 210 210 150	20	200
MDS600S-120T*(d)	2	240/120	AC	1S	-	-35	85	L-L L-N L-G N-G	1800 1200 1200 900	420 210 210 150	20	200
MDS600S-120Y (d)	1	208/120	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	1500 1000 1000 900	300 150 150 150	20	200
MDS600S-120Y*(d)	2	208/120	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	1500 1000 1000 900	300 150 150 150	20	200
MDS600S-240D (d)	1	240	AC	3D	n/a	-35	85	L-L L-G	1500 1500	300 300	20	200
MDS600S-240D*(d)	2	240	AC	3D	n/a	-35	85	L-L L-G	1500 1500	300 300	20	200
MDS600S-240DCT (d)	1	240/120	AC	3H	n/a	-35	85	L-L L-N L-G N-G H-L H-N H-G	3000 1800 1800 3000 3000 1800 1800	840 420 420 840 840 420 420	20	200

MDS600S-240DCT*(d)	2	240/120	AC	3H	n/a	-35	85	L-L L-N L-G N-G H-L H-N H-G	3000 1800 1800 3000 3000 1800 1800	840 420 420 840 840 420 420	20	200
MDS600S-240Y (d)	1	415/240	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	2500 1800 1800 1200	640 320 320 275	20	200
MDS600S-240Y*(d)	2	415/240	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	2500 1800 1800 1200	640 320 320 275	20	200
MDS600S-277Y (d)	1	480/277	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	2500 1800 1800 1200	840 420 420 275	20	200
MDS600S-277Y*(d)	2	480/277	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	2500 1800 1800 1200	840 420 420 275	20	200
MDS600S-347Y (d)	1	600/347	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	3000 1800 1800 1800	920 460 460 420	20	200
MDS600S-347Y*(d)	2	600/347	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	3000 1800 1800 1800	920 460 460 420	20	200
MDS600S-480D (d)	1	480	AC	3D	n/a	-35	85	L-L L-G	2000 2000	550 550	20	200
MDS600S-480D*(d)	2	480	AC	3D	n/a	-35	85	L-L L-G	2000 2000	550 550	20	200
MDS750-120T (d)	1	240/120	AC	1S	n/a	-35	85	L-L L-N L-G N-G	1500 1200 1200 800	420 210 210 150	20	200
MDS750-120T*(d)	2	240/120	AC	1S	n/a	-35	85	L-L L-N L-G N-G	1500 1200 1200 800	420 210 210 150	20	200
MDS750-120Y (d)	1	208/120	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	1200 800 900 800	300 150 150 150	20	200
MDS750-120Y*(d)	2	208/120	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	1200 800 900 800	300 150 150 150	20	200
MDS750-240D (d)	1	240	AC	3D	n/a	-35	85	L-L L-G	1500 1500	300 300	20	200
MDS750-240D*(d)	2	240	AC	3D	n/a	-35	85	L-L L-G	1500 1500	300 300	20	200
MDS750-240DCT (d)	1	240/120	AC	3H	n/a	-35	85	L-L L-N L-G N-G H-L H-N H-G	3000 1800 1800 3000 3000 1800 1800	840 420 420 840 840 420 420	20	200
MDS750-240DCT*(d)	2	240/120	AC	3H	n/a	-35	85	L-L L-N L-G N-G H-L H-N H-G	3000 1800 1800 3000 3000 1800 1800	840 420 420 840 840 420 420	20	200
MDS750-240Y (d)	1	415/240	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	2500 1800 1800 1200	640 320 320 275	20	200
MDS750-240Y*(d)	2	415/240	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	2500 1800 1800 1200	640 320 320 275	20	200
MDS750-277Y (d)	1	480/277	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	2500 1500 1500 1200	840 420 420 275	20	200
MDS750-277Y*(d)	2	480/277	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	2500 1500 1500 1200	840 420 420 275	20	200

MDS750-347Y (d)	1	600/347	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	3000 1800 1800 1800	920 460 460 420	20	200
MDS750-347Y*(d)	2	600/347	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	3000 1800 1800 1800	920 460 460 420	20	200
MDS750-480D (d)	1	480	AC	3D	n/a	-35	85	L-L L-G	2000 2000	550 550	20	200
MDS750-480D*(d)	2	480	AC	3D	n/a	-35	85	L-L L-G	2000 2000	550 550	20	200
MDS750E-120T (d)	1	240/120	AC	1S	n/a	-35	85	L-L L-N L-G N-G	1800 1200 1200 900	420 210 210 150	20	200
MDS750E-120T*(d)	2	240/120	AC	1S	n/a	-35	85	L-L L-N L-G N-G	1800 1200 1200 900	420 210 210 150	20	200
MDS750E-120Y (d)	1	208/120	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	1500 1200 1200 1000	300 150 150 150	20	200
MDS750E-120Y*(d)	2	208/120	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	1500 1200 1200 1000	300 150 150 150	20	200
MDS750E-240D (d)	1	240	AC	3D	n/a	-35	85	L-L L-G	1500 1500	300 300	20	200
MDS750E-240D*(d)	2	240	AC	3D	n/a	-35	85	L-L L-G	1500 1500	300 300	20	200
MDS750E-240DCT (d)	1	240/120	AC	3H	n/a	-35	85	L-L L-N L-G N-G H-L H-N H-G	3000 1800 1800 3000 3000 1800 1800	840 420 420 840 840 420 420	20	200
MDS750E-240DCT*(d)	2	240/120	AC	3H	n/a	-35	85	L-L L-N L-G N-G H-L H-N H-G	3000 1800 1800 3000 3000 1800 1800	840 420 420 840 840 420 420	20	200
MDS750E-240Y (d)	1	415/240	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	2500 1800 1800 1200	640 320 320 275	20	200
MDS750E-240Y*(d)	2	415/240	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	2500 1800 1800 1200	640 320 320 275	20	200
MDS750E-277Y (d)	1	480/277	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	3000 1800 1800 1200	840 420 420 275	20	200
MDS750E-277Y*(d)	2	480/277	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	3000 1800 1800 1200	840 420 420 275	20	200
MDS750E-347Y (d)	1	600/347	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	3000 1800 1800 1800	920 460 460 420	20	200
MDS750E-347Y*(d)	2	600/347	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	3000 1800 1800 1800	920 460 460 420	20	200
MDS750E-480D (d)	1	480	AC	3D	n/a	-35	85	L-L L-G	2000 2000	550 550	20	200
MDS750E-480D*(d)	2	480	AC	3D	n/a	-35	85	L-L L-G	2000 2000	550 550	20	200
MDS750S-120T (d)	1	240/120	AC	1S	n/a	-35	85	L-L L-N L-G N-G	1800 1200 1200 900	420 210 210 150	20	200
MDS750S-120T*(d)	2	240/120	AC	1S	n/a	-35	85	L-L L-N L-G N-G	1800 1200 1200 900	420 210 210 150	20	200
MDS750S-120Y (d)	1	208/120	AC	3Y	n/a	-35	85	L-L L-N	1500 1200	300 150	20	200

								L-G N-G	1200 1000	150 150		
MDS750S-120Y*(d)	2	208/120	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	1500 1200 1200 1000	300 150 150 150	20	200
MDS750S-240D (d)	1	240	AC	3D	n/a	-35	85	L-L L-G	1500 1500	300 300	20	200
MDS750S-240D*(d)	2	240	AC	3D	n/a	-35	85	L-L L-G	1500 1500	300 300	20	200
MDS750S-240DCT (d)	1	240/120	AC	3H	n/a	-35	85	L-L L-N L-G N-G H-L H-N H-G	3000 1800 1800 3000 3000 1800 1800	840 420 420 840 840 420 420	20	200
MDS750S-240DCT*(d)	2	240/120	AC	3H	n/a	-35	85	L-L L-N L-G N-G H-L H-N H-G	3000 1800 1800 3000 3000 1800 1800	840 420 420 840 840 420 420	20	200
MDS750S-240Y (d)	1	415/240	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	2500 1800 1800 1200	640 320 320 275	20	200
MDS750S-240Y*(d)	2	415/240	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	2500 1800 1800 1200	640 320 320 275	20	200
MDS750S-277Y (d)	1	480/277	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	3000 1800 1800 1200	840 420 420 275	20	200
MDS750S-277Y*(d)	2	480/277	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	3000 1800 1800 1200	840 420 420 275	20	200
MDS750S-347Y (d)	1	600/347	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	3000 1800 1800 1800	920 460 460 420	20	200
MDS750S-347Y*(d)	2	600/347	AC	3Y	n/a	-35	85	L-L L-N L-G N-G	3000 1800 1800 1800	920 460 460 420	20	200
MDS750S-480D (d)	1	480	AC	3D	n/a	-35	85	L-L L-G	2000 2000	550 550	20	200
MDS750S-480D*(d)	2	480	AC	3D	n/a	-35	85	L-L L-G	2000 2000	550 550	20	200
SP165-120T	1	240/120	AC	1S	n/a	-35	-	L-L L-N L-G N-G	2000 1200 2500 1800	600 330 600 600	20	100
SP165-120Y	1	208/120	AC	3Y	n/a	-35	-	L-L L-N L-G N-G	2000 1200 2500 1800	600 330 600 600	20	100
SP165-220Y	1	380/220	AC	3Y	n/a	-35	-	L-L L-N L-G N-G	2000 1200 2500 1800	600 330 600 600	20	100
SP165-240D	1	240	AC	3D	n/a	-35	-	L-L	2000	600	20	100
SP165-240DCT	1	240/120	AC	3H	n/a	-35	-	L-L L-N L-G N-G H-L H-N H-G	2000 1200 2500 1800 2000 2500 2500	600 330 600 600 600 600 600	20	100
SP165-240Y	1	415/240	AC	3Y	n/a	-35	-	L-L L-N L-G N-G	2000 1200 2500 1800	600 330 600 600	20	100
SP165-277Y	1	480/277	AC	3Y	n/a	-35	-	L-L L-N L-G N-G	2000 1200 2500 1800	600 330 600 600	20	100
TPU-277Y	1	480/277	AC	3Y	n/a	-35	-	L-L L-N L-G N-G	2000 1200 2500 1800	600 330 600 600	20	100

DS73US-120T	1	240/120	AC	1S	n/a	-35	85	L-L L-N L-G N-G	1200 800 1200 700	420 210 360 150	20	200
DS73US-120T	2	240/120	AC	1S	n/a	-35	85	L-L L-N L-G N-G	1200 800 1200 700	420 210 360 150	20	200
DS73US-240Y/NN	1	415/240	AC	3Y	n/a	-35	85	L-L L-G	1800 1000	640 640	20	200
DS73US-240Y/NN	2	415/240	AC	3Y	n/a	-35	85	L-L L-G	1800 1000	640 640	20	200
DS74U-600D/RKW	1	600	AC	3D	n/a	-	85	L-L L-G	2500 2500	840 840	20	200
DS74US-480D/RKW	2	480	AC	3D	n/a	-	85	L-L L-G	2500 2500	550 550	20	200
DS74US-480D/RKW	1	480	AC	3D	n/a	-	85	L-L L-G	2500 2500	550 550	20	200
M80-120Y+	1	208/120	AC	3Y	n/a	0	-	L-L L-N L-G N-G	1000 800 1000 800	260 150 260 150	10	100
MS100-120T/G, MS80-120T (e)	1	120/240	AC	1	-	-35	85	L-L L-G L-N N-G	1000 700 700 1000	300 150 150 150	20	200
MS100-120T/G, MS80-120T/G (e)	1	120/240	AC	1	-	-35	85	L-L L-G L-N N-G	1000 700 700 700	300 150 150 150	20	200
MS100-120Y, MS80-120Y (e)	1	120/208	AC	3Y	-	-35	85	L-L L-N L-G N-G	1000 700 700 700	300 150 150 150	20	200
MS100-120Y/G, MS80-120Y/G (e)	1	120/208	AC	3Y	-	-35	85	L-L L-N L-G N-G	1000 700 700 1000	300 150 150 150	20	200
MS100-240D, MS80-240D (e)	1	240	AC	3D	-	-35	85	L-L L-G	1800 1200	640 320	20	200
MS100-240D/G, MS80-240D/G (e)	1	240	AC	3D	-	-35	85	L-L L-G	1800 1000	640 320	20	200
MS100-240DCT, MS80-240DCT (e)	1	120/240	AC	3H	-	-35	85	L-L L-N L-G N-G H-L H-N H-G	1000 700 700 700 3000 700 700	300 150 150 150 470 320 320	20	200
MS100-240DCT/G, MS80-240DCT/G (e)	1	120/240	AC	3H	-	-35	85	L-L L-N L-G N-G H-L H-N H-G	1000 700 700 1000 3000 700 700	300 150 150 150 470 320 320	20	200
MS100-240Y, MS80-240Y (e)	1	240/415	AC	3Y	-	-35	85	L-L L-N L-G N-G	1800 1000 1200 1000	640 320 320 320	20	200
MS100-240Y/G, MS80-240Y/G (e)	1	240/415	AC	3Y	-	-35	85	L-L L-N L-G N-G	1800 1000 1200 1000	640 320 320 320	20	200
MS100-277Y, MS80-277Y (e)	1	277/480	AC	3Y	-	-35	85	L-L L-N L-G N-G	1800 1000 1200 1000	640 320 320 320	20	200
MS100-277Y/G, MS80-277Y/G (e)	1	277/480	AC	3Y	-	-35	85	L-L L-N L-G N-G	1800 1000 1200 1000	640 320 320 320	20	200
MS100-347Y, MS80-347Y (e)	1	347/600	AC	3Y	-	-35	85	L-L L-N L-G N-G	3000 1800 1800 1800	1100 550 550 550	20	200
MS100-347Y/G, MS80-347Y/G (e)	1	347/600	AC	3Y	-	-35	85	L-L L-N L-G N-G	3000 1800 1800 1800	1100 550 550 550	20	200
MS100-480D, MS80-480D (e)	1	480	AC	3D	-	-35	85	L-L L-G	3000 1800	1100 550	20	200
MS100-480D/G, MS80-480D/G (e)	1	480	AC	3D	-	-35	85	L-L	3000	1100	20	200

								L-G	1800	550		
MS100-480DCT, MS80-480DCT (e)	1	240/480	AC	3H	-	-35	85	L-L L-N L-G N-G H-L H-N H-G	1800 1000 1200 1000 3000 1000 1200	690 320 320 320 870 550 550	20	200
MS100-480DCT/G, MS80-480DCT/G (e)	1	240/480	AC	3H	-	-35	85	L-L L-N L-G N-G H-L H-N H-G	1800 1000 1200 1000 3000 1000 1200	690 320 320 320 870 550 550	20	200
MS200-120T, MS160-120T (e)	1	120/240	AC	1	-	-35	85	L-L L-G L-N N-G	1000 700 700 700	300 150 150 150	20	200
MS200-120Y, MS160-120Y (e)	1	120/208	AC	3Y	-	-35	85	L-L L-N L-G N-G	1000 700 700 700	300 150 150 150	20	200
MS200-120Y/G, MS160-120Y/G (e)	1	120/208	AC	3Y	-	-35	85	L-L L-N L-G N-G	1000 700 700 1000	300 150 150 150	20	200
MS200-240D, MS160-240D (e)	1	240	AC	3D	-	-35	85	L-L L-G	1800 1200	640 320	20	200
MS200-240DCT, MS160-240DCT (e)	1	120/240	AC	3H	-	-35	85	L-L L-N L-G N-G H-L H-N H-G	1000 700 700 700 3000 700 700	300 150 150 150 470 320 320	20	200
MS200-240DCT/G, MS160-240DCT/G (e)	1	120/240	AC	3H	-	-35	85	L-L L-N L-G N-G H-L H-N H-G	1000 700 700 1000 3000 700 700	300 150 150 150 470 320 320	20	200
MS200-240Y, MS160-240Y (e)	1	240/415	AC	3Y	-	-35	85	L-L L-N L-G N-G	1800 1000 1200 1000	640 320 320 320	20	200
MS200-240Y/G, MS160-240Y/G (e)	1	240/415	AC	3Y	-	-35	85	L-L L-N L-G N-G	1800 1000 1200 1000	640 320 320 320	20	200
MS200-277Y, MS160-277Y (e)	1	277/480	AC	3Y	-	-35	85	L-L L-N L-G N-G	1800 1000 1200 1000	640 320 320 320	20	200
MS200-277Y/G, MS160-277Y/G (e)	1	277/480	AC	3Y	-	-35	85	L-L L-N L-G N-G	1800 1000 1200 1000	640 320 320 320	20	200
MS200-347Y, MS160-347Y (e)	1	347/600	AC	3Y	-	-35	85	L-L L-N L-G N-G	3000 1800 1800 1800	1100 550 550 550	20	200
MS200-347Y/G, MS160-347Y/G (e)	1	347/600	AC	3Y	-	-35	85	L-L L-N L-G N-G	3000 1800 1800 1800	1100 550 550 550	20	200
MS200-480D, MS160-480D (e)	1	480	AC	3D	-	-35	85	L-L L-G	3000 1800	1100 550	20	200
MS200-480DCT, MS160-480DCT (e)	1	240/480	AC	3H	-	-35	85	L-L L-N L-G N-G H-L H-N H-G	1800 1000 1200 1000 3000 1000 1200	690 320 320 320 870 550 550	20	200
MS200-480DCT/G, MS160-480DCT/G (e)	1	240/480	AC	3H	-	-35	85	L-L L-N L-G N-G H-L H-N H-G	1800 1000 1200 1000 3000 1000 1200	690 320 320 320 870 550 550	20	200

These products are intended for installation on the line side (Type 1 SPD) or load side (Type 1, 2 or 3 SPDs) of the main service disconnect in circuits not exceeding 1000 V rms, and have been tested to verify that the transient-voltage surges are limited to the maximum amplitudes specified in the Voltage Protection Rating (VPR).

SPDs investigated for Type 1 applications are automatically suitable for Type 2 applications and may be marked for SPD Type 1 and/or Type 2 applications. SPDs only marked "SPD Type 2" are not suitable for Type 1 applications.



The effect of the surge-protective device on connected loads, the effect of the protector on harmonic distortion of the supply voltage, and the adequacy of the Voltage Protection Rating to protect connected equipment from damage from transient-voltage surges has not been determined.

- (a) - May be followed by /L.
  - (b) - Where W can be 1 or 2, X can be 6, 12, 24, 48 or 170, Y can be H or W, Z can be I or A.
  - (c) - Where x can be 1, 2 or 3.
  - (d) - May be followed by -H or -L.
  - (e) - may be followed by "-C", may be followed by "-H" or "-L" (C may be combined with H or L)
- \* - Complementary Listed as EMI Filters.
- + - May be followed by additional numbers and/or letters.



Trademark and/or Tradename: "Citel" ,

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