

# Standards & Approvals

## Underwriters Laboratories Inc.



Find certifications at [www.ul.com](http://www.ul.com)

File No. E44145

Class Description:

Switches, Special Use – Component. Switches are supplied without marking unless specified. See General Specifications page of each series for ordering instructions.

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Find certifications at [www.ul.com](http://www.ul.com)

File No. E44145

Class Description:

Switches, Special Use – Certified for Canada. Switches are supplied without marking unless specified. See General Specifications page of each series for ordering instructions.

## Canadian Standards Association



Online at

[www.csa-international.org](http://www.csa-international.org)

File No. 023535\_0\_000

Class No. 6241-10; Class Description:

C22.2 No. 55: Switches-Snap-Special Use. Switches are supplied without marking unless specified. See General Specifications page of each series for ordering instructions.

UL, cULus recognized & CSA certified only when ordered with marking on the switch.

*See details regarding specific options in each switch section.*

Basic NKK Part No.	Rating Amps@Volts	UL	cULus	CSA	Basic NKK Part No.	Rating Amps@Volts	UL	cULus	CSA
CWSA	6A @ 250V AC	•	•		KB15	1A @ 125/250V AC	•	•	•
CWSB	6A @ 250V AC	•	•		KB16	1A @ 30V DC	•	•	•
CWSB (illum.)	9A @ 125V AC	•		•	KB25	0.4VA @ 28V DC	•	•	•
CWSC (illum.)	9A @ 125V AC	•		•	KB26		•	•	•
CWT12	6A @ 250V AC	•	•		LB15		•	•	•
	6A @ 125V AC	•			LB16	3A @ 125/250V AC	•	•	•
	3A @ 250V AC	•			LB25	0.4VA @ 28V DC	•	•	•
EB2011		•	•	•	LB26		•	•	•
EB2065	3A @ 125V AC	•	•	•	LP0125	3A @ 125V AC	•	•	
EB2061	3A @ 125V AC	•	•	•		3A @ 250V AC	•	•	
EB2085		•	•	•		3A @ 30V DC	•	•	
FB15ANEP2	0.5A @ 125V AC	•	•		LW3122		•	•	
HB15		•	•		LW3123		•	•	
HB16	0.1A @ 30V AC/DC	•	•		LW3125	10A @ 125V AC	•	•	
HS16-1		•	•		LW3128	6A @ 250V AC	•	•	
HS16-2		•	•		LW3129		•	•	
HS16-3	12A @ 125V AC	•	•		<u>Toggle</u>				
HS16-4	6A @ 250V AC	•	•		M2011		•	•	•
HS16-5		•	•		M2012		•	•	•
HS16-6		•	•		M2013		•	•	•
JPL	TV8, 125V AC	•	•		M2015		•	•	•
JPM	TV5, 125V AC	•	•		M2018		•	•	•
JWL11		•	•	•	M2019		•	•	•
JWL12	TV8,	•	•	•	M2021	6A @ 125V AC	•	•	•
JWL21	16A @ 250V AC	•	•	•	M2022	3A @ 250V AC	•	•	•
JWL22	5A @ 72V DC (UL)	•	•	•	M2023	0.4VA @ 28V DC	•	•	•
JWM11		•	•	•	M2024		•	•	•
JWM12	TV5,	•	•	•	M2025		•	•	•
JWM21	10A @ 250V AC	•	•	•	M2026		•	•	•
JWM22	10A @ 30V DC	•	•	•	M2027		•	•	•
JWLW11		•			M2028		•	•	•
JWLW12		•			M2029		•	•	•
JWLW21	16A @ 250V AC	•			M2032		•	•	•
JWLW22		•			M2033		•	•	•
JMMW11		•		•	M2035		•	•	•
JMMW12	10A @ 250V AC	•		•	M2038	6A @ 125V AC	•	•	•
JMMW21	10A @ 30V DC	•		•	M2039	3A @ 250V AC	•	•	•
JMMW22		•		•	M2042	0.4VA @ 28V DC	•	•	•
JWS11	6A @ 125/250V AC	•	•	•	M2043		•	•	•
JWS21	(illum. & nonilluminated)	•	•	•	M2044		•	•	•
		•	•	•	M2045		•	•	•
		•	•	•	M2046		•	•	•
		•	•	•	M2047	6A @ 125V AC	•	•	•
		•	•	•	M2048	3A @ 250V AC	•	•	•
		•	•	•	M2049	0.4VA @ 28V DC	•	•	•

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Basic NKK Part No.	Rating Amps@Volts	UL	cULus	CSA	Basic NKK Part No.	Rating Amps@Volts	UL	cULus	CSA
<b>Rockers</b> M2011	6A @ 125V AC 3A @ 250V AC 0.4VA @ 28V DC	•	•	•	M2T22 M2T23 M2T25 M2T28 M2T29	6A @ 125V AC 3A @ 250V AC 4A @ 30V DC	• • • • •	• • • • •	• • • • •
M2012 M2013 M2015 M2018 M2019	6A @ 125V AC 3A @ 250V AC 0.4VA @ 28V DC	• • • • •	• • • • •	• • • • •	M2T22 M2T23 M2T25 M2T28 M2T29	0.4VA @ 28V DC	• • • • •	• • • • •	• • • • •
M2021	6A @ 125V AC 3A @ 250V AC 0.4VA @ 28V DC	•	•	•	MB2011 MB2065 MB2061 MB2085 MB2181 MB2185	6A @ 125V AC 3A @ 250V AC 0.4VA @ 28V DC	• • • • • •	• • • • • •	• • • • • •
M2022 M2023 M2024 M2025 M2026 M2027 M2028 M2029	6A @ 125V AC 3A @ 250V AC 0.4VA @ 28V DC	• • • • • • • •	• • • • • • • •	• • • • • • • •	MB2411 MB2461	3A @ 125V AC 0.4VA @ 28V DC	• •	• •	• •
M2032 M2033 M2035 M2038 M2039	6A @ 125V AC 3A @ 250V AC 0.4VA @ 28V DC	• • • • •	• • • • •	• • • • •	MB2511 MB2521	3A @ 125V AC 0.4VA @ 28V DC	• •	• •	• •
M2042 M2043 M2045 M2048 M2049	6A @ 125V AC 3A @ 250V AC 0.4VA @ 28V DC	• • • • •	• • • • •	• • • • •	MLW3012 MLW3013 MLW3015 MLW3018 MLW3019	5A @ 125V AC 3A @ 250V AC	• • • • •	• • • • •	• • • • •
M2044 M2046 M2047	6A @ 125V AC 3A @ 250V AC 0.4VA @ 28V DC	• • •	• • •	• • •	MLW3022 MLW3023 MLW3025 MLW3028 MLW3029 MLW3020	5A @ 125V AC 3A @ 250V AC	• • • • • •	• • • • • •	• • • • • •
M2112 M2113	6A @ 125V AC	• •	• •	• •	MRT22 MRT23	10A @ 125V AC 5A @ 125V AC	• •	• •	• •
UL & cULus for M2112 & M2113: Only Synchronous Toggles & Rockers with Solder Lug or Straight PC					MS12 MS13 MS22 MS23	6A @ 125V AC 3A @ 250V AC (nonilluminated)	• • • •	• • • •	• • • •
M2112 M2113	6A @ 125V AC			• •	MS12 MS13 MS20 MS22 MS23	6A @ 125V AC 3A @ 250V AC 0.4VA @ 28V DC (nonilluminated)			• • • • •
CSA for M2112 & M2113: Only Synchronous Toggles & Rockers					P2011 P2012 P2013 P2021 P2022 P2023	10A @ 125V AC 6A @ 250V AC	• • • • • •	• • • • • •	• • • • • •
M2B15 M2B25	1A @ 125V AC 1A @ 30V DC 0.4VA @ 28V DC	• •	• •	• •	S1A S2A S3A	10A @ 125V AC 5A @ 250V AC	• • •	• • •	• • •
M2T12 M2T13 M2T15 M2T18 M2T19	6A @ 125V AC 3A @ 250V AC 4A @ 30V DC	• • • • •	• • • • •	• • • • •	S1A S2A S3A	15A @ 125V AC 6A @ 250V AC			• • •
M2T12 M2T13 M2T15 M2T18 M2T19	0.4VA @ 28V DC	• • • • •	• • • • •	• • • • •					• • • • •

Toggles

Rockers

Pushbuttons

PB

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Keylocks

Rotaries

Slides

Tactiles

Tilt

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Indicators

Accessories

Supplement

Z

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Basic NKK Part No.	Rating Amps@Volts	UL	cULus	CSA	Basic NKK Part No.	Rating Amps@Volts	UL	cULus	CSA
S6A	20A @ 125V AC	•	•	•	S301	15A @ 125V AC	•	•	•
S6AL	10A @ 250V AC	•	•	•	S302	6A @ 250V AC	•	•	•
S7A	20A @ 125V AC			•	S303				
	10A @ 250V AC				S301F	15A @ 125V AC	•	•	•
S31	18A @ 125V AC	•	•			6A @ 250V AC			
S31F	9A @ 250V AC	•	•		S301T	15A @ 125V AC	•	•	•
S31	25A @ 125V AC			•	S302T	6A @ 250V AC	•	•	•
S31F	9A @ 250V AC			•	S303T				
S32	18A @ 125V AC	•	•		S305			•	•
S32F	9A @ 250V AC	•	•		S305T			•	•
S32	25A @ 125V AC			•	S308	15A @ 125V AC		•	•
S32F	9A @ 250V AC			•	S308T	6A @ 250V AC		•	•
S33	18A @ 125V AC	•	•		S309			•	•
S33F	9A @ 250V AC	•	•		S309T			•	•
S33	25A @ 125V AC			•	S331	25A @ 125V AC	•	•	•
S33F	9A @ 250V AC			•		9A @ 250V AC			
S31T	15A @ 125V AC	•	•	•	S331F	25A @ 125V AC	•	•	
S32T	6A @ 250V AC	•	•	•		25A @ 250V AC			
S33T	6A @ 250V AC	•	•	•	S331R	25A @ 125V AC	•	•	
S35	15A @ 125V AC	•	•	•		9A @ 250V AC			
S38	6A @ 250V AC	•	•	•	S331T	15A @ 125V AC	•	•	
S39	6A @ 250V AC	•	•	•		15A @ 250V AC			
S41	18A @ 125V AC	•	•		S332	25A @ 125V AC			•
S41F	9A @ 250V AC	•	•			9A @ 250V AC			
S41R	9A @ 250V AC	•	•		S332	25A @ 125V AC	•	•	
S41	25A @ 125V AC			•	S332F	15A @ 250V AC	•	•	
S42	9A @ 250V AC			•	S332R				
S43	9A @ 250V AC			•	S332T	15A @ 125V AC	•	•	
S41T	15A @ 125V AC	•	•	•		15A @ 250V AC			
S42T	6A @ 250V AC	•	•	•	S333	25A @ 125V AC			•
S43T	6A @ 250V AC	•	•	•		9A @ 250V AC			
S42	18A @ 125V AC	•	•		S333	25A @ 125V AC	•	•	
S42F	9A @ 250V AC	•	•		S333F	15A @ 250V AC	•	•	
S42R	9A @ 250V AC	•	•		S333R				
S42	25A @ 125V AC			•	S333T	15A @ 125V AC	•	•	
	9A @ 250V AC					15A @ 250V AC			
S43	18A @ 125V AC	•	•		S335	15A @ 125V AC	•	•	•
S43F	9A @ 250V AC	•	•			6A @ 250V AC			
S43R	9A @ 250V AC	•	•		S335F	25A @ 125V AC	•	•	
S43	25A @ 125V AC			•		15A @ 250V AC			
	9A @ 250V AC				S335T	15A @ 125V AC	•	•	
S45		•	•			6A @ 250V AC			
S48	15A @ 125V AC	•	•		S338	15A @ 125V AC	•	•	
S48R	6A @ 250V AC	•	•		S338R	6A @ 250V AC	•	•	
S49	6A @ 250V AC	•	•		S338T				
S49R	6A @ 250V AC	•	•		S339	15A @ 125V AC	•	•	
S114	5A @ 125V AC			•	S339R	6A @ 250V AC	•	•	
S116	2A @ 250V AC			•	S339T				

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	Basic NKK Part No.	Rating Amps@Volts	UL	cULus	CSA		Basic NKK Part No.	Rating Amps@Volts	UL	cULus	CSA
Rockers	S821	30A @ 125V AC	•	•	•		SW3001A	15A @ 125V AC	•		
	S822	30A @ 250V AC	•	•	•		SW3002A	6A @ 250V AC	•		
	S823	30A @ 250V AC	•	•	•		SW3003A	15A @ 30V DC	•		
Pushbuttons	S821D	30A @ 30V DC	•	•	•			10A @ 125V AC (Inductive)			
	S822D	15A @ 125V DC	•	•	•		SW3001A	15A @ 125V AC			•
	S823D	15A @ 125V DC	•	•	•		SW3002A	6A @ 250V AC			•
Illuminated PB	S831	30A @ 125V AC	•	•	•		SW3003A	6A @ 250V AC			•
	S832	30A @ 250V AC	•	•	•		SW3006A	20A @ 125V AC	•	•	•
	S833	30A @ 250V AC	•	•	•			10A @ 250V AC			
Programmable	S831D	30A @ 30V DC	•	•	•		SW3007A	15A @ 125V AC			•
	S832D	15A @ 125V DC	•	•	•			6A @ 250V AC			
	S833D	15A @ 125V DC	•	•	•		SW3821	30A @ 125V AC	•	•	•
Keylocks	SB25	15A @ 125V AC	•	•	•		SW3822	30A @ 250V AC	•	•	•
		9A @ 250V AC					SW3823	30A @ 250V AC	•	•	•
	SB61A	10A @ 125V AC	•	•			SW3821D	30A @ 30V DC	•	•	•
Rotaries		5A @ 250V AC					SW3822D	15A @ 125V DC	•	•	•
	SB221NC	3A @ 125V AC	•	•	•		SW3823D	15A @ 125V DC	•	•	•
	SB221TNC	1.5A @ 250V AC	•	•	•		SW3831	30A @ 125V AC	•	•	•
Slides	SB221NO	3A @ 125V AC			•		SW3832	30A @ 250V AC	•	•	•
	SB221TNO	1.5A @ 250V AC			•		SW3833	30A @ 250V AC	•	•	•
	SB265	6A @ 125V AC	•	•	•		SW3831D	30A @ 30V DC	•	•	•
Tactiles		3A @ 250V AC					SW3832D	15A @ 125V DC	•	•	•
	SB4011NC	3A @ 125V AC	•	•	•		SW3833D	15A @ 125V DC	•	•	•
	SB4011NO	2A @ 250V AC	•	•	•		UB15	5A @ 125V AC	•	•	
Tilt	Low Security						UB16	5A @ 250V AC	•	•	
	SK12AA	3A @ 125V AC	•	•	•		UB25	0.014A @ 28V DC	•	•	
	SK12BA	3A @ 125V AC	•	•	•		UB26	0.014A @ 28V DC	•	•	
Touch	SK13DA	1A @ 250V AC	•	•	•		UB15	5A @ 125V AC			•
	SK13EA	1A @ 250V AC	•	•	•		UB16	5A @ 250V AC			•
	Medium Security						UB25	0.4VA @ 28V DC			•
Indicators	SK12AD	3A @ 125V AC	•	•			UB26	5A @ 30V DC			•
	SK12BD	3A @ 125V AC	•	•			UB215	5A @ 125V AC	•	•	
	SK13ED	3A @ 125V AC	•	•			UB216	5A @ 250V AC	•	•	
Accessories							UB225	0.014A @ 28V DC	•	•	
							UB226	0.014A @ 28V DC	•	•	
							WR11		•	•	
Supplement							WR12	15A @ 125V AC	•	•	
							WR13	15A @ 250V AC	•	•	
							WR15	15A @ 30V DC	•	•	

# Standards & Approvals

## VDE (Verband Deutscher Elektrotechniker/Germany)

 Models	VDE Approved			 Models	VDE Approved		
	Approved Ratings	File or License Numbers	Marking on Case		Approved Ratings	File or License Numbers	Marking on Case
JPL	8A/128A @ 250V AC 16A (8A) @ 250V AC	097579	Standard	JWM	5A/80A @ 250V AC 10A (6A) @ 250V AC	115637	Standard
JPM	5A/80A @ 250V AC 10A (6A) @ 250V AC	113494	Standard	JWS	5A (3A) @ 125/250V AC	119153	Standard
JWL	8A/128A @ 250V AC 16A (8A) @ 250V AC	115637	Standard	P	10A (6A) @ 125V AC 6A (6A) @ 250V AC	119174	Standard

## ISO (International Organization for Standardization)

ISO 9001	ISO 14001
<p>ISO 9000 is a set of international standards on quality management and quality assurance. It is not a set of product specifications but requirements for building a quality system with documented and repeatable procedures.</p> <p>NKK has received the certificate of registration for the ISO 9001 standard, which is for business operations that design, produce, install, and service products.</p>	<p>ISO 14000 is a new series of voluntary international standards governing environmental management. ISO 14001 is the first of some 20 standards to be developed.</p> <p>NKK, being a corporation mindful of environmental concerns, has obtained a certificate of registration for ISO 14001. This standard seeks to balance socio-economic and business needs with support of environmental protection and pollution prevention within reach of businesses large and small.</p>

## IP Code for Degrees of Protection Provided by Enclosures

<p>The IP code is part of the IEC60529 (International Organization for Standardization) standard recommending the degree of protection of enclosures for low-voltage switch gear; specifically, concerned with protection of persons against contact with live or moving parts and the prevention of ingress of solid foreign bodies and liquid.</p> <p>The IP code is an industrial specification used internationally and is similar to the NEMA standard.</p>	<p><b>IP60</b> dust tight but not protected from water.</p> <p><b>IP65</b> dust tight and protected against water jets.</p> <p><b>IP67</b> dust tight and protected against effects of temporary immersion.</p> <p><b>IP68</b> dust tight and protected against effects of immersion for up to 30 minutes in 1.5 meters of water.</p>
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