

# 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.

## Underwriters Laboratories Inc.



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	•	•	•
CWSB (illum.)	9A @ 125V AC	•	•		KB26		•	•	•
CWSC (illum.)	6A @ 250V AC	•	•		LB15		•	•	•
CWT12	6A @ 125V AC	•	•		LB16	3A @ 125/250V AC	•	•	•
	3A @ 250V AC	•	•		LB25	0.4VA @ 28V DC	•	•	•
		•	•		LB26		•	•	•
EB2011	3A @ 125V AC	•	•	•	LP0125	3A @ 125V AC	•	•	
EB2065		•	•	•		3A @ 250V AC	•	•	
EB2061	3A @ 125V AC	•	•	•		3A @ 30V DC	•	•	
EB2085		•	•	•	LW3122		•	•	
FB15ANEP2	0.5A @ 125V AC	•	•		LW3123		•	•	
HB15		•	•		LW3125	10A @ 125V AC	•	•	
HB16	0.1A @ 30V AC/DC	•	•		LW3128	6A @ 250V AC	•	•	
HB16		•	•		LW3129		•	•	
HS16-1		•	•		<b>Toggle</b>				
HS16-2		•	•		M2011		•	•	•
HS16-3	12A @ 125V AC	•	•		M2012		•	•	•
HS16-4	6A @ 250V AC	•	•		M2013		•	•	•
HS16-5		•	•		M2015		•	•	•
HS16-6		•	•	•	M2018		•	•	•
JPL	TV8, 125V AC	•	•		M2019		•	•	•
JPM	TV5, 125V AC	•	•		M2021	6A @ 125V AC	•	•	•
		•	•		M2022	3A @ 250V AC	•	•	•
JWL11	TV8,	•	•	•	M2023	0.4VA @ 28V DC	•	•	•
JWL12		•	•	•	M2024		•	•	•
JWL21	16A @ 250V AC	•	•	•	M2025		•	•	•
JWL22	5A @ 72V DC (UL)	•	•	•	M2026		•	•	•
		•	•	•	M2027		•	•	•
JWM11	TV5,	•	•	•	M2028		•	•	•
JWM12		•	•	•	M2029		•	•	•
JWM21	10A @ 250V AC	•	•	•					
JWM22	10A @ 30V DC (UL)	•	•	•	M2032		•	•	•
		•	•	•	M2033		•	•	•
JWLW11		•	•		M2035		•	•	•
JWLW12		•	•		M2038	6A @ 125V AC	•	•	•
JWLW21	16A @ 250V AC	•	•		M2039	3A @ 250V AC	•	•	•
JWLW22		•	•		M2042	0.4VA @ 28V DC	•	•	•
		•	•		M2043		•	•	•
JWMW11		•	•		M2044		•	•	•
JWMW12	10A @ 250V AC	•	•		M2045		•	•	•
JWMW21	10A @ 30V DC	•	•		M2046		•	•	•
JWMW22		•	•						
JWS11	6A @ 125/250V AC	•	•	•	M2047	6A @ 125V AC	•	•	•
JWS21	(illum. & nonilluminated)	•	•	•	M2048	3A @ 250V AC	•	•	•
		•	•	•	M2049	0.4VA @ 28V DC	•	•	•

# Standards & Approvals

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
Rockers 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	15A @ 125V AC 6A @ 250V AC	• • •	• • •	• • •
M2T12 M2T13 M2T15 M2T18 M2T19	6A @ 125V AC 3A @ 250V AC 4A @ 30V DC	• • • • •	• • • • •	• • • • •					
M2T12 M2T13 M2T15 M2T18 M2T19	0.4VA @ 28V DC	• • • • •	• • • • •	• • • • •					

Toggles

Rockers

Pushbuttons

Illuminated PB

Programmable

Keylocks

Rotaries

Slides

Tactiles

Tilt

Touch

Indicators

Accessories

Supplement

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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 S6AL	20A @ 125V AC 10A @ 250V AC	• •	• •	•	S301 S302 S303	15A @ 125V AC 6A @ 250V AC	• • •	• • •	• • •
S7A	20A @ 125V AC 10A @ 250V AC			•	S301F	15A @ 125V AC 6A @ 250V AC	•	•	•
S31 S31F	18A @ 125V AC 9A @ 250V AC	• •	• •		S301T S302T S303T	15A @ 125V AC 6A @ 250V AC	• • •	• • •	• • •
S31 S31F	25A @ 125V AC 9A @ 250V AC			• •	S305 S305T S308 S308T S309 S309T	15A @ 125V AC 6A @ 250V AC			• • • • • •
S32 S32F	18A @ 125V AC 9A @ 250V AC	• •	• •		S331	25A @ 125V AC 9A @ 250V AC	•	•	•
S32 S32F	25A @ 125V AC 9A @ 250V AC			• •	S331F	25A @ 125V AC 25A @ 250V AC	•	•	
S33 S33F	18A @ 125V AC 9A @ 250V AC	• •	• •		S331R	25A @ 125V AC 9A @ 250V AC	•	•	
S33 S33F	25A @ 125V AC 9A @ 250V AC			• •	S331T	15A @ 125V AC 15A @ 250V AC	•	•	
S31T S32T S33T	15A @ 125V AC 6A @ 250V AC	• • •	• • •	• • •	S332	25A @ 125V AC 9A @ 250V AC			•
S35 S38 S39	15A @ 125V AC 6A @ 250V AC	• • •	• • •	• • •	S332 S332F S332R	25A @ 125V AC 15A @ 250V AC	• • •	• • •	
S41 S41F S41R	18A @ 125V AC 9A @ 250V AC	• • •	• • •		S332T	15A @ 125V AC 15A @ 250V AC	•	•	
S41 S42 S43	25A @ 125V AC 9A @ 250V AC			• • •	S333	25A @ 125V AC 9A @ 250V AC			•
S41T S42T S43T	15A @ 125V AC 6A @ 250V AC	• • •	• • •	• • •	S333 S333F S333R	25A @ 125V AC 15A @ 250V AC	• • •	• • •	
S42 S42F S42R	18A @ 125V AC 9A @ 250V AC	• • •	• • •		S333T	15A @ 125V AC 15A @ 250V AC	•	•	
S43 S43F S43R	18A @ 125V AC 9A @ 250V AC	• • •	• • •		S335	15A @ 125V AC 6A @ 250V AC	•	•	•
S45 S48 S48R S49 S49R	15A @ 125V AC 6A @ 250V AC	• • • • •	• • • • •		S335T	15A @ 125V AC 6A @ 250V AC	•	•	
S114 S116	5A @ 125V AC 2A @ 250V AC			• •	S338 S338R S338T	15A @ 125V AC 6A @ 250V AC	• • •	• • •	
					S339 S339R S339T	15A @ 125V AC 6A @ 250V AC	• • •	• • •	

Toggle

Rockers

Pushbuttons

Illuminated PB

Programmable

Keylocks

Rotaries

Slides

Tactiles

Tilt

Touch

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Supplement

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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
S821	30A @ 125V AC	•	•	•	SW3001A	15A @ 125V AC	•		
S822	30A @ 250V AC	•	•	•	SW3002A	6A @ 250V AC	•		
S823		•	•	•	SW3003A	15A @ 30V DC	•		
S821D	30A @ 30V DC	•	•	•		10A @ 125V AC (Inductive)			
S822D	15A @ 125V DC	•	•	•	SW3001A	15A @ 125V AC			•
S823D		•	•	•	SW3002A	6A @ 250V AC			•
S831	30A @ 125V AC	•	•	•	SW3003A				•
S832	30A @ 250V AC	•	•	•	SW3006A	20A @ 125V AC	•	•	•
S833		•	•	•		10A @ 250V AC			
S831D	30A @ 30V DC	•	•	•	SW3007A	15A @ 125V AC			•
S832D	15A @ 125V DC	•	•	•		6A @ 250V AC			
S833D		•	•	•	SW3821	30A @ 125V AC	•	•	•
SB25	15A @ 125V AC	•	•	•	SW3822	30A @ 250V AC	•	•	•
	9A @ 250V AC				SW3823		•	•	•
SB61A	10A @ 125V AC	•	•		SW3821D	30A @ 30V DC	•	•	•
	5A @ 250V AC				SW3822D	15A @ 125V DC	•	•	•
SB221NC	3A @ 125V AC	•	•	•	SW3823D		•	•	•
SB221TNC	1.5A @ 250V AC	•	•	•	SW3831	30A @ 125V AC	•	•	•
SB221NO	3A @ 125V AC			•	SW3832	30A @ 250V AC	•	•	•
SB221TNO	1.5A @ 250V AC			•	SW3833		•	•	•
SB265	6A @ 125V AC	•	•	•	SW3831D	30A @ 30V DC	•	•	•
	3A @ 250V AC				SW3832D	15A @ 125V DC	•	•	•
SB4011NC	3A @ 125V AC	•	•	•	SW3833D		•	•	•
SB4011NO	2A @ 250V AC	•	•	•	UB15	5A @ 125V AC	•	•	
<u>Low Security</u>					UB16	5A @ 250V AC	•	•	
SK12AA	3A @ 125V AC	•	•	•	UB25	0.014A @ 28V DC	•	•	
SK12BA		•	•	•	UB26	5A @ 30V DC	•	•	
SK13DA	1A @ 250V AC	•	•	•	UB15	5A @ 125V AC			•
SK13EA		•	•	•	UB16	5A @ 250V AC			•
<u>Medium Security</u>					UB25	0.4VA @ 28V DC			•
SK12AD	3A @ 125V AC	•	•		UB26	5A @ 30V DC			•
SK12BD		•	•		UB215	5A @ 125V AC	•	•	
SK13ED		•	•		UB216	5A @ 250V AC	•	•	
					UB225	0.014A @ 28V DC	•	•	
					UB226	5A @ 30V DC	•	•	
					WR11		•	•	
					WR12	15A @ 125V AC	•	•	
					WR13	15A @ 250V AC	•	•	
					WR15	15A @ 30V DC	•	•	
					WR18		•	•	
					WR19		•	•	
					YB15	3A @ 125/250V AC	•	•	•
					YB16	0.4VA @ 28V AC/DC	•	•	•
					YB25	(Solder Lug only)	•	•	•
					YB26		•	•	•
					YB15	3A @ 125/250V AC	•	•	•
					YB16	0.4VA @ 28V AC/DC	•	•	•
					YB25		•	•	•
					YB26		•	•	•
					YB215	3A @ 125/250V AC	•	•	
					YB216	0.4VA @ 28V AC/DC	•	•	
					YB225		•	•	
					YB226		•	•	

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Z

## VDE (Verband Deutscher Elektrotechniker/Germany)

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

## ISO (International Organization for Standardization)

### ISO 9001

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.

NKK has received the certificate of registration for the ISO 9001 standard, which is for business operations that design, produce, install, and service products.

### ISO 14001

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.

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.

## IP Code for Degrees of Protection Provided by Enclosures

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.

The IP code is an industrial specification used internationally and is similar to the NEMA standard.

- IP60** dust tight but not protected from water.
- IP65** dust tight and protected against water jets.
- IP67** dust tight and protected against effects of temporary immersion.