

# 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	•	•	•
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	•	•	•

Toggle  
Rockers  
Pushbuttons  
Illuminated PB  
Programmable  
Keylocks  
Rotaries  
Slides  
Tactiles  
Tilt  
Touch  
Indicators  
Accessories  
Supplement

# 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	Rockers M2011	6A @ 125V AC 3A @ 250V AC 0.4VA @ 28V DC	•	•	•		M2T22	6A @ 125V AC	•	•	•
							M2T23	3A @ 250V AC	•	•	•
Pushbuttons	M2012		•	•	•		M2T25	4A @ 30V DC	•	•	•
	M2013	6A @ 125V AC	•	•	•		M2T28		•	•	•
	M2015	3A @ 250V AC	•	•	•		M2T29		•	•	•
	M2018	0.4VA @ 28V DC	•	•	•						
	M2019		•	•	•		M2T22		•	•	•
Illuminated PB	M2021	6A @ 125V AC 3A @ 250V AC 0.4VA @ 28V DC	•	•	•		M2T23		•	•	•
							M2T25	0.4VA @ 28V DC	•	•	•
Programmable	M2022		•	•	•		M2T28		•	•	•
	M2023		•	•	•		M2T29		•	•	•
	M2024		•	•	•						
	M2025	6A @ 125V AC	•	•	•		MB2011		•	•	•
	M2026	3A @ 250V AC	•	•	•		MB2065	6A @ 125V AC	•	•	•
	M2027	0.4VA @ 28V DC	•	•	•		MB2061	3A @ 250V AC	•	•	•
	M2028		•	•	•		MB2085	0.4VA @ 28V DC	•	•	•
	M2029		•	•	•		MB2181		•	•	•
							MB2185		•	•	•
							MB2411	3A @ 125V AC	•	•	•
Keylocks	M2032		•	•	•		MB2461	0.4VA @ 28V DC	•	•	•
	M2033	6A @ 125V AC	•	•	•						
Rotaries	M2035	3A @ 250V AC	•	•	•		MB2511	3A @ 125V AC	•	•	•
	M2038	0.4VA @ 28V DC	•	•	•		MB2521	0.4VA @ 28V DC	•	•	•
	M2039		•	•	•						
	M2042		•	•	•		MLW3012		•	•	•
	M2043	6A @ 125V AC	•	•	•		MLW3013		•	•	•
Slides	M2045	3A @ 250V AC	•	•	•		MLW3015	5A @ 125V AC	•	•	•
	M2048	0.4VA @ 28V DC	•	•	•		MLW3018	3A @ 250V AC	•	•	•
	M2049		•	•	•		MLW3019		•	•	•
	M2044	6A @ 125V AC	•	•	•		MLW3022		•	•	•
	M2046	3A @ 250V AC	•	•	•		MLW3023		•	•	•
Tactiles	M2047	0.4VA @ 28V DC	•	•	•		MLW3025	5A @ 125V AC	•	•	•
	M2112	6A @ 125V AC	•	•	•		MLW3028	3A @ 250V AC	•	•	•
	M2113		•	•	•		MLW3029		•	•	•
							MLW3020		•	•	•
							MRT22	10A @ 125V AC	•	•	•
Tilt							MRT23	5A @ 125V AC	•	•	•
							MS12	6A @ 125V AC	•	•	•
							MS13	3A @ 250V AC	•	•	•
							MS22	(nonilluminated)	•	•	•
							MS23		•	•	•
Touch	M2B15	1A @ 125V AC	•	•	•		MS12	6A @ 125V AC			•
	M2B25	1A @ 30V DC	•	•	•		MS13	3A @ 250V AC			•
		0.4VA @ 28V DC	•	•	•		MS20	0.4VA @ 28V DC			•
	M2T12	6A @ 125V AC	•	•	•		MS22	(nonilluminated)			•
	M2T13	3A @ 250V AC	•	•	•		MS23				•
Indicators	M2T15	4A @ 30V DC	•	•	•		P2011		•	•	•
	M2T18		•	•	•		P2012		•	•	•
	M2T19		•	•	•		P2013	10A @ 125V AC	•	•	•
							P2021	6A @ 250V AC	•	•	•
							P2022		•	•	•
Accessories	M2T12		•	•	•		P2023		•	•	•
	M2T13		•	•	•						
	M2T15	0.4VA @ 28V DC	•	•	•		S1A	10A @ 125V AC	•	•	•
	M2T18		•	•	•		S2A	5A @ 250V AC	•	•	•
	M2T19		•	•	•		S3A		•	•	•

UL & cULus for M2112 & M2113:

Only Synchronous Toggles & Rockers with Solder Lug or Straight PC

M2112	6A @ 125V AC			•
M2113				•

CSA for M2112 & M2113: Only Synchronous Toggles & Rockers

# 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
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		•	•	•
S31	25A @ 125V AC			•	S302T	15A @ 125V AC	•	•	•
S31F	9A @ 250V AC			•	S303T	6A @ 250V AC	•	•	•
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	•	•	
					S332F	15A @ 250V AC	•	•	
S41	25A @ 125V AC			•	S332R				
S42	9A @ 250V AC			•	S332T	15A @ 125V AC	•	•	
S43	9A @ 250V AC			•		15A @ 250V AC			
S41T	15A @ 125V AC	•	•	•	S333	25A @ 125V AC			•
S42T	6A @ 250V AC	•	•	•		9A @ 250V AC			
S43T	6A @ 250V AC	•	•	•	S333	25A @ 125V AC	•	•	
S42	18A @ 125V AC	•	•			15A @ 250V 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		•	•	

Toggles

Rockers

Pushbuttons

Illuminated PB

Programmable

Keylocks

Rotaries

Slides

Tactiles

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Touch

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

# Standards & Approvals

## VDE (Verband Deutscher Elektrotechniker/Germany)

 Models	VDE Approved Approved Ratings	File or License Numbers	Marking on Case	 Models	VDE Approved 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>
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