

Standards & Approvals

Toggle

Rockers

Pushbuttons

Illuminated PB

Keylocks

Rotaries

Slides

Tactiles

Tilt

Touch

Indicators

Accessories

Supplement

Underwriters Laboratories Inc.



Find certifications at www.ul.com

File No. E44145

Class Description:

Switches, Special Use – Component.
Switches are supplied without marking unless specified. To order UL mark on switch, add a "/U" to end of part number.

Underwriters Laboratories Inc.



Find certifications at www.ul.com

File No. E44145

Class Description:

Switches, Special Use – Certified for Canada. Switches are supplied without marking unless specified. To order cULus mark on switch, add a "/CUL" to end of part number.

Canadian Standards Association



Online at

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. To order CSA mark on switch, add a "/C" to end of part number.

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 1A @ 30V DC 0.4VA @ 28V DC	•	•	•
CWSB	6A @ 250V AC		•		KB16		•	•	•
CWSB (illum.)	9A @ 125V AC	•		•	KB25		•	•	•
CWSC (illum.)	9A @ 125V AC		•		KB26		•	•	•
CWT12	6A @ 250V AC 6A @ 125V AC 3A @ 250V AC		•		LB15	3A @ 125/250V AC 0.4VA @ 28V DC	•	•	•
EB2011	3A @ 125V AC	•	•	•	LB16		•	•	•
EB2065		•	•	•	LB25		•	•	•
EB2061	3A @ 125V AC (Straight PC only for CSA)	•	•	•	LB26		•	•	•
EB2085		•	•	•	LP0125	3A @ 125V AC 3A @ 250V AC 3A @ 30V DC	•	•	
FB15ANEP2	0.5VA @ 125V AC	•	•		LW3122	10A @ 125V AC 6A @ 250V AC	•	•	
HB15	0.1A @ 30V AC/DC	•	•		LW3123		•	•	
HB16		•	•		LW3125		•	•	
HS16-1	12A @ 125V AC 6A @ 250V AC	•	•		LW3128		•	•	
HS16-2		•	•		LW3129	•	•		
HS16-3		•	•		Toggle	6A @ 125V AC 3A @ 250V AC 0.4VA @ 28V DC	•	•	•
HS16-4		•	•		M2011		•	•	•
HS16-5		•	•		M2012		•	•	•
HS16-6		•	•		M2013		•	•	•
JPL	TV8, 125V AC	•	•		M2015		•	•	•
JPM	TV5, 125V AC	•	•		M2018		•	•	•
JWL11	TV8, 16A @ 250V AC 5A @ 72V DC (UL)	•	•	•	M2019		•	•	•
JWL12		•	•	•	M2021		•	•	•
JWL21		•	•	•	M2022		•	•	•
JWL22		•	•	•	M2023		•	•	•
JWM11	TV5, 10A @ 250V AC	•	•	•	M2024		•	•	•
JWM12		•	•	•	M2025		•	•	•
JWM21		•	•	•	M2026		•	•	•
JWM22		•	•	•	M2027		•	•	•
JWLW11	TV8, 16A @ 250V AC	•	•		M2028	•	•	•	
JWLW12		•	•		M2029	•	•	•	
JWLW21		•	•		M2032	6A @ 125V AC 3A @ 250V AC 0.4VA @ 28V DC	•	•	•
JWLW22		•	•		M2033		•	•	•
JMMW11	TV5, 10A @ 250V AC 10A @ 30V DC	•	•	•	M2035		•	•	•
JMMW12		•	•	•	M2038		•	•	•
JMMW21		•	•	•	M2039		•	•	•
JMMW22		•	•	•	M2042		•	•	•
JWS11	6A @ 125/250V AC (illum. & nonilluminated)	•	•	•	M2043		•	•	•
JWS21		•	•	•	M2044		•	•	•
					M2045	•	•	•	
					M2046	•	•	•	
					M2047	6A @ 125V AC	•	•	•
					M2048	3A @ 250V AC	•	•	•
					M2049	0.4VA @ 28V DC	•	•	•

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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	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	• • • • •	• • • • •						

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S6A	20A @ 125V AC 10A @ 250V AC	•	•	•	S301	15A @ 125V AC	•	•	•
S7A	20A @ 125V AC 10A @ 250V AC			•	S302	6A @ 250V AC	•	•	•
S31	18A @ 125V AC	•	•		S303		•	•	•
S31F	9A @ 250V AC	•	•		S301F	15A @ 125V AC 6A @ 250V AC	•	•	•
S31	25A @ 125V AC			•	S301T	15A @ 125V AC	•	•	•
S31F	9A @ 250V AC			•	S302T	6A @ 250V AC	•	•	•
S32	18A @ 125V AC	•	•		S303T		•	•	•
S32F	9A @ 250V AC	•	•		S305			•	•
S32	25A @ 125V AC			•	S305T	15A @ 125V AC		•	•
S32F	9A @ 250V AC			•	S308	6A @ 250V AC		•	•
S33	18A @ 125V AC	•	•		S308T			•	•
S33F	9A @ 250V AC	•	•		S309			•	•
S33	25A @ 125V AC			•	S309T			•	•
S33F	9A @ 250V AC			•	S331	25A @ 125V AC 9A @ 250V AC	•	•	•
S31T	15A @ 125V AC	•	•	•	S331F	25A @ 125V AC 25A @ 250V AC	•	•	
S32T	6A @ 250V AC	•	•	•	S331R	25A @ 125V AC 9A @ 250V AC	•	•	
S33T	6A @ 250V AC	•	•	•	S331T	15A @ 125V AC 15A @ 250V AC	•	•	
S35	15A @ 125V AC	•	•	•	S332	25A @ 125V AC 9A @ 250V AC			•
S38	6A @ 250V AC	•	•	•	S332	25A @ 125V AC 9A @ 250V AC			•
S39	6A @ 250V AC	•	•	•	S332	25A @ 125V AC 15A @ 250V AC	•	•	
S41	18A @ 125V AC	•	•		S332F	15A @ 250V AC	•	•	
S41F	9A @ 250V AC	•	•		S332R		•	•	
S41R	9A @ 250V AC	•	•		S332T	15A @ 125V AC 15A @ 250V AC	•	•	
S41	25A @ 125V AC			•	S333	25A @ 125V AC 9A @ 250V AC			•
S42	9A @ 250V AC			•	S333	25A @ 125V AC 9A @ 250V AC			•
S43	9A @ 250V AC			•	S333	25A @ 125V AC 15A @ 250V AC	•	•	
S41T	15A @ 125V AC	•	•	•	S333T	15A @ 125V AC 15A @ 250V AC	•	•	
S42T	6A @ 250V AC	•	•	•	S335	15A @ 125V AC 6A @ 250V AC	•	•	•
S43T	6A @ 250V AC	•	•	•	S335F	25A @ 125V AC 15A @ 250V AC	•	•	
S42	18A @ 125V AC	•	•		S335T	15A @ 125V AC 6A @ 250V AC	•	•	
S42F	9A @ 250V AC	•	•		S338	15A @ 125V AC	•	•	
S42R	9A @ 250V AC	•	•		S338R	6A @ 250V AC	•	•	
S43	18A @ 125V AC	•	•		S338T		•	•	
S43F	9A @ 250V AC	•	•		S339	15A @ 125V AC	•	•	
S43R	9A @ 250V AC	•	•		S339R	6A @ 250V AC	•	•	
S43	25A @ 125V AC			•	S339T	6A @ 250V AC	•	•	
S43F	9A @ 250V AC			•					
S43R	9A @ 250V AC			•					
S45	15A @ 125V AC	•	•						
S48	6A @ 250V AC	•	•						
S48R	6A @ 250V AC	•	•						
S49	6A @ 250V AC	•	•						
S49R	6A @ 250V AC	•	•						
S114	5A @ 125V AC			•					
S116	2A @ 250V AC			•					

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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	•	•	
Low Security					UB16	5A @ 250V AC	•	•	
SK12AA	3A @ 125V AC	•	•	•	UB25	0.014A @ 28V DC	•	•	
SK12BA		•	•	•	UB26		•	•	
SK13DA	1A @ 250V AC	•	•	•	UB15	5A @ 125V AC			•
SK13EA		•	•	•	UB16	5A @ 250V AC			•
Medium Security					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		•	•	
					WR11	15A @ 125V AC	•	•	
					WR12	15A @ 250V AC	•	•	
					WR13	15A @ 30V DC	•	•	
					WR15	(Solder Lug & Screw Lug only)	•	•	
					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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VDE (Verband Deutscher Elektrotechniker/Germany)

	VDE Approved				VDE Approved		
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	SW3006A	20A @ 125V AC 10A @ 250V AC	119189	On Request
JWM	5A/80A @ 250V AC 10A (6A) @ 250V AC	115637	Standard	WR	15A (8A) @ 250V AC	126501	On Request

SEMKO (Svenska Elektriska Materielkontrollanstalten/Sweden)

	Toggles	Rockers & Paddles	Approved Ratings	Reference Number	Marking on Case
	P2011 P2012 P2013 P2021 P2022	P2011Y P2012Y P2013Y P2021Y P2022Y	10A (6A) @ 125V AC 6A (6A) @ 250V AC	9915205/01-02	Standard

SEV (Schweizerscher Elektrotechnischer Verein/Switzerland)

	Models	Approved Ratings	Authorization Number	Marking on Case
	P with Quick Connect Terminals (P2013 only for micro-switch off)	10A (6A) @ 125V AC 6A (6A) @ 250V AC	02.0466	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>IP60 dust tight but not protected from water.</p> <p>IP65 dust tight and protected against water jets.</p> <p>IP67 dust tight and protected against effects of temporary immersion.</p>
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