

**Manual Switches, Type K**

**Table 16.6: Non-Reversing—Class 2510**

Operator Style	No. of Poles	Features	NEMA 1 General Purpose Enclosure Surface Mounting		General Purpose Flush Mounting (Without Pull Box)			NEMA 4 Enclosure <sup>[5]</sup> Watertight and Dusttight	NEMA 3R, 7 & 9 Enclosures <sup>[5]</sup> Hazardous Locations Div. 1 & 2 Class I Groups B, C, & D, & Class II Groups E, F, and G	Open Style	
			Standard	Oversized	Gray Flush Plate	Standard Stainless Steel Flush Plate	Jumbo Stainless Steel Flush Plate				
			Type	Type	Type	Type	Type				
Toggle	2	Standard	KG1	KGJ1	KF1	KS1	—	KW1	KR1	KO1	
		With Pilot Light <sup>[6]</sup>	115 Vac 230 Vac	KG1A KG1B	KGJ1A KGJ1B	KF1A KF1B	KS1A KS1B	KSJ1A KSJ1B	KW1A KW1B	—	KO1A <sup>[7]</sup> KO1B <sup>[7]</sup>
	3	Standard	KG2	KGJ2	KF2	KS2	—	KW2	KR2	KO2	
		With Pilot Light <sup>[6]</sup>	208–277 Vac 440–600 Vac	KG2B KG2C	KGJ2B KGJ2C	KF2B KF2C	KS2B KS2C	KSJ2B KSJ2C	KW2B KW2C	—	KO2B <sup>[7]</sup> KO2C <sup>[7]</sup>
	2	Standard	KG5	KGJ5	—	—	—	KW5	—	KO5	
		With Pilot Light <sup>[6]</sup>	115 Vac 230 Vac	KG5A KG5B	—	—	—	KW5A KW5B	—	KO5A <sup>[7]</sup> KO5B <sup>[7]</sup>	
	3	Standard	KG6	KGJ6	—	—	—	KW6	—	KO6	
		With Pilot Light <sup>[6]</sup>	208–277 Vac 440–600 Vac	KG6B KG6C	—	—	—	KW6B KW6C	—	KO6B <sup>[7]</sup> KO6C <sup>[7]</sup>	
	Key	2	Standard	KG3	KGJ3	KF3	KS3	—	—	—	KO3
			With Pilot Light <sup>[6]</sup>	115 Vac 230 Vac	KG3A KG3B	KGJ3A KGJ3B	KF3A KF3B	KS3A KS3B	KSJ3A KSJ3B	—	KO3A KO3B
		3	Standard	KG4	KGJ4	KF4	KS4	—	—	—	KO4
			With Pilot Light <sup>[6]</sup>	208–277 Vac 440–600 Vac	KG4B KG4C	KGJ4B KGJ4C	KF4B KF4C	KS4B KS4C	KSJ4B KSJ4C	—	KO4B KO4C

**Table 16.7: Reversing—Class 2511**

Operator Style	No. of Poles	Suitable for Motor Types	Features (Including Mechanical Interlock)	NEMA 1 General Purpose Enclosure Surface Mounting	With Flush Plate for Cavity Mounting (Without Pull Box)	Replacement Switch Class 2510	
				Type	Type	Type	
Toggle	2	1 Ø 3-Lead Repulsion-Induction	Standard	KG11	KF11	KO1T	
			With Pilot Light <sup>[6]</sup>	115 Vac 230 Vac	KG11A KG11B	KF11A KF11B	KO1AT KO1BT
	3	3 Ø; Also 1 Ø Capacitor, Split Ø, or 4-Lead Repulsion-Induction	Standard	KG22	KF22	KO2T	
			With Pilot Light <sup>[6]</sup>	110–120 Vac 208–220 Vac 440–600 Vac	KG22A KG22B KG22C	KF22A KF22B KF22C	KO2AT KO2BT KO2CT

**Table 16.8: Two Speed—Class 2512**

Operator Style	No. of Poles	Suitable for Motor Types	Features (Including Mechanical Interlock)	NEMA 1 General Purpose Enclosure Surface Mounting	With Flush Plate for Cavity Mounting (Without Pull Box)	Replacement Switch Class 2510
				Type	Type	Type
Toggle	2	1 Ø Two Winding (3-Lead)	Standard	KG11	KF11	KO1T
			With 2 Pilot Lights <sup>[6]</sup>	115 Vac 230 Vac	KG11A KG11B	KF11A KF11B
	3	3 Ø Separate Winding (Wye-Connected)	Standard	KG22	KF22	KO2T
			With 2 Pilot Lights <sup>[6]</sup>	208–240 Vac 440–600 Vac	KG22A KG22C	KF22A KF22C

**Table 16.9: Class 2511 and 2512 Horsepower Ratings Type K**

Device	No. of Poles	Motor Type AC	Maximum Hp			Maximum DC Hp (breaking 2 poles)		
			115 V	230 V	460–575 V	90 V	115 V	230 V
Class 2511	2	1 Ø	2	2	3	1	2	1-1/2
	3	3Ø	2	7-1/2	10			
	2	1 Ø	2	2	3			
Class 2512	3	3 Ø, Constant or Variable Torque	2	7-1/2	10			
	3	3 Ø, Constant Hp	2	7-1/2	10			
<b>Continuous current rating</b>			30 A at 600 Vac maximum			30 A at 24 Vdc maximum		

**Table 16.10: Class 2510 Horsepower Ratings**

Class 2510	No. of Poles	Motor Type AC	Maximum Hp				Maximum DC Hp (breaking 2 poles)		
			115 V	230 V	460 V	575 V	90 V	115 V	230 V
KO1 KO3	2	Single Ø	2	2	3	3	1	2	1-1/2
KO2 KO4	3	Three Ø	2	7-1/2	10	10			
KO5 KO6	2 3	Single Ø Three Ø	2 2	3 7-1/2	7-1/2 15	10 20			
<b>Continuous current rating</b>			30 A at 600 Vac maximum				30 A at 24 Vdc maximum		

**Table 16.11: How to Order**

To Order Specify:	Catalog Number	
• Class Number	Class	Type
• Type Number	2510	KO2

<sup>[5]</sup> Furnished with one 3/4" pipe tap in the bottom (reversible for top feed). For a 3/4" pipe tap in the top and bottom, add the suffix H to the Type.  
<sup>[6]</sup> For a green pilot light, add the letter G to the catalog number (i.e. 2510FG2PG)  
<sup>[7]</sup> When replacing a starter equipped with a pilot light in NEMA 4 enclosure, retain the pilot light mounting bracket from the original device.

Accessories, Modifications, and Replacement Parts

Table 16.22: P11 Pilot Light Voltage Codes

Voltage	Code
120 V	V02
200/208 V	V08
230 V	V03
460 V	V06
575 V	V07

Table 16.24: Accessories—Class 2510 Types F and K

Description	Class & Type
Handle Guard Kit with Padlock Provision [18]	2510FL1
Emergency Off Actuator	2510PB1
Additional Key for Key Operated Devices	2510FK1

Table 16.23: Modifications (Types M & T only)

Description	Factory Modifications (Forms)	Field Modification Kits, Class & Type
Red Pilot Light [14]	P11[15]	9999MP1 (110–120 V) 9999MP2 (208–240 V) 9999MP3 (440–600 V)
Auxiliary Contacts [16]	X1 (1 N.O.) X2 (1 N.C.)	9999SX11 (N.O.) 9999SX12 (N.C.)
Jumper Straps [17]	N/A	9998SO31
Contact only	Y76	N/A

Table 16.25: Pilot Light Kits—Class 2510 Types F and K

Application	Voltage	Red Pilot Light	Green Pilot Light
		Class & Type	Class & Type
Type KF, KG, KW [19]	110–120 Vac	9999PL11	9999PL11G
	208–277 Vac	9999PL12	9999PL12G
	440–600 Vac	9999PL13	9999PL13G
Type FF, FG, FW [19]	115–240 Vac/dc	9999PL10	9999PL10G

Table 16.26: Replacement Nameplates—Class 2510 Types F and K

Description	Application	Nameplate Marking	Nameplate Type Number—Class 2510			
			For Type K Switch		For Type F Starter (includes Reset Indication)	
			Without Pilot Light	With Pilot Light	Without Pilot Light	With Pilot Light
1-3/4" x 2-13/16" Nameplate with Embossed Mounting Holes for #6 Oval Head Screws	Standard commercial switch box cover or flush plate, including Square D stainless steel plates	(Blank)	FN1	—	FN2	—
		(Special marking—specify the marking desired)	FN5	—	FN6	—
1-29/32" x 3-27/32" Flat Nameplate with Mounting Holes for #6 Pan Head Screws	Square D NEMA 1 surface mounted enclosure or gray flush plate	(Blank)	FN10	FN20	FN30	FN40
		High	FN11	FN21	FN31	FN41
		Low	FN12	FN22	FN32	FN42
		Forward	FN13	—	—	—
		Reverse	FN14	FN24	—	—
		(Special marking—specify the marking desired)	FN15	FN25	FN35	FN45

Contact Kits

See page 16-124 for Class 9998 Replacement Contact Kits.

Table 16.27: Replacement Part Kits

Enclosure	Product Description	Kit Catalog No.
Replacement Toggle Kits		
NEMA 4	Type FW and KW	9998HW1
NEMA 7 & 9	Type FR and KR	9998HR2
Replacement Handle Kits		
NEMA 12	Type MBA, MCA (Ser. A & B)	9998HWA1
	Type MBA, MCA (Ser. C)	31085-381-50
NEMA 4/4X (Stainless)	Type MBW, MCW (Ser. A & B)	9998HWA1
	Type MBW, MCW (Ser. C)	31085-381-50
NEMA 4/4X (Polyester)	Type MBW (Size 0)	9998HWA1
	Type MCW (Size 1)	9998HR3
NEMA 7 and 9	Type MBR, MCR	9998HR3
Description		Kit Catalog No.
Internal Lever		9998IL1

Table 16.28: How to Order

To Order Specify:	Catalog Number	
	Class	Type
<ul style="list-style-type: none"> <li>Class Number</li> <li>Type Number</li> </ul>	9991	KE1

Table 16.29: Enclosures

For use with Class 2510 Type	Enclosure	Catalog No.
F and K	NEMA 1 Standard	9991EN1
M: Sizes M-0 & M-1		9991MG1
M: Size M-1P		9991MG2
MBO and MCO	NEMA 1 Flush Mount (with pull box and plaster adjustment)	9991MF1
	NEMA 1 Flush Mount (without pullbox but with mounting strap)	9991MF2
	NEMA 4X (Polyester)	9991MW1
	NEMA 4 (Stainless Steel)	9991MW11
FO1, FO1P, FO2, FO2P, FO3, FO3P, FO4, FO4P	NEMA 1 Oversized	9991FE1
KO1, KO1A, KO1B, KO2, KO2B, KO2C, KO3, KO3A, KO3B, KO4, KO4B, KO4C, KO5, KO5A, KO5B, KO6, KO6B, KO6C	NEMA 1 Oversized	9991KE1
	NEMA 1 Jumbo	9991KE2
	NEMA 3R	9991KE3

[14] May only be field-added to NEMA 1 enclosures. For green pilot light, order 9999SPG1 additionally.

[15] Form P11 pilot lights require a voltage code. Refer to Table 16.22. Catalog number example: 2510MBG1V02P11.

[16] For proper operation, only one auxiliary contact kit per device may be added.

[17] Used to control a single phase motor utilizing a three phase starter.

[18] Standard on Type K devices.

[19] The lens cannot be replaced. The pilot light kits for NEMA 4 enclosed units are for replacement only.