ONLINE CERTIFICATIONS DIRECTORY

WOYR2.E41791
Switches, Appliance and Special Use - Component

For enhanced search functionality, please visit UL's iQ™ Family of Databases.
Click on a product designation for complete information.

Page Bottom

Switches, Appliance and Special Use - Component

See General Information for Switches, Appliance and Special Use - Component

MARQUARDT GMBH E41791
SCHLOSS STRASSE 16
78604 RIETHEIM-WEILHEIM, GERMANY

Investigated to ANSI/UL 61058-1

						Pol/	Endurance					
Cat. No.	**Load**	**Amps**	**Volts**	**Hz**	**Temp (°C)**	**Thr/ Cir**	**30C cycle**	**55C cycle**	**IP**	**Dis (mm)**	**SPCA**	**Std. Ed.**
Lever												
2600 or 2602 or 2610 ww/o suff .0000 thru .9999 (a)												
	RM	20 (20)	127	50-60	T55	1/1-1.2	6K	50K	40	full 3.6	Notes A1, A, B	2005-09-30
	RM	20 (20)	127	50-60	T55	2/1-1.3	6K	50K	40			
Micro, "1080, 1085 Series"												
108 w/wo 0,5 w/wo Suff.0000-9999												
	RM	21(8)	250	50-60	40T125	1/1-1.2	6K	10K	40	micro	8	2005-09-30
	RM	21(8)	250	50-60	40T125	1/2-2.2	6K	10K	40			
	RM	16(8)	250	50-60	40T125	1/2-2.2	6K	10K	40			
	RM	16(4)	250	50-60	40T125	1/1-1.2	6K	10K	40			
	RM	16(4)	250	50-60	40T125	1/1-1.2	6K	50K	40			
	RM	2(1)	250	50-60	40T125	1/2-2.2	6K	200K	40			
	RM	16(4)	250	50-60	40T125	1/2-2.2	6K	25K	40			
	RM	10(3)	250	50-60	40T125	1/1-1.2	6K	50K	40			
	RM	6(3)	250	50-60	40T125	1/2-2.2	6K	60K	40			
	RM	3(1)	250	50-60	40T125	1/1-1.2	6K	50K	40			
Push Button												
100 ww/o suff. 5,6 ww/o Suff. .0000-.9999												
	RM	16 (16)	250	50-60	100	1/1-1.2	-	50000K	40	micro	J1, J2, J3	2013-02-15
104 ww/o "." or suff. 1,2,3,4,5,6,7,8,9 w/wo Suff. 0000-9999												
	R	12	250	50-60	40T100	1/1, 1/2-1.1, 2.2	-	10K	40	micro	G1, G2, G3, G4, G5, G6	2005-09-30
	R	12	250	50-60	40T100	1/1, 1/2-1.1, 2.2	-	10K	67			
	R	10	250	50-60	40T100	1/1, 1/2-1.1, 2.2	-	10K	40			
	R	10	250		40T100		-	10K	67			

				50-60		1/1, 1/2-1.1, 2.2						
	R	8	250	50-60	40T100	1/1, 1/2-1.1, 2.2	-	10K	40			
	R	8	250	50-60	40T100	1/1, 1/2-1.1, 2.2	-	10K	67			
	R	6	250	50-60	40T100	1/1, 1/2-1.1, 2.2	6K	30K	40			
	R	6	250	50-60	40T100	1/1, 1/2-1.1, 2.2	6K	30K	67			
	R	5	250	50-60	40T100	1/1, 1/2-1.1, 2.2	6K	30K	40			
	R	5	250	50-60	40T100	1/1, 1/2-1.1, 2.2	6K	30K	67			
	R	3	250	50-60	40T100	1/1, 1/2-1.1, 2.2	6K	100K	40			
	R	3	250	50-60	40T100	1/1, 1/2-1.1, 2.2	6K	100K	67			
	RM	10(3)	250	50-60	40T100	1/1, 1/2-1.1, 2.2	-	10K	40			
	RM	10(3)	250	50-60	40T100	1/1, 1/2-1.1, 2.2	-	10K	67			
	RM	6(6)	250	50-60	40T100	1/1, 1/2-1.1, 2.2	6K	30K	40			
	RM	6(6)	250	50-60	40T100	1/1, 1/2-1.1, 2.2	6K	30K	67			
	RM	5(5)	250	50-60	40T100	1/1, 1/2-1.1, 2.2	6K	10K	40			
	RM	5(5)	250	50-60	40T100	1/1, 1/2-1.1, 2.2	6K	10K	67			
	RM	4(3)	250	50-60	40T100	1/1, 1/2-1.1, 2.2	6K	10K	40			
	RM	4(3)	250	50-60	40T100	1/1, 1/2-1.1, 2.2	6K	10K	67			
	RM	3(3)	250	50-60	40T100	1/1, 1/2-1.1, 2.2	6K	30K	40			
	RM	3(3)	250	50-60	40T100	1/1, 1/2-1.1, 2.2	6K	30K	67			
	RM	3(1)	250	50-60	40T100	1/1, 1/2-1.1, 2.2	6K	30K	40			
	RM	3(1)	250	50-60	40T100	1/1, 1/2-1.1, 2.2	6K	30K	67			
	RM	2(1)	250	50-60	40T100	1/1, 1/2-1.1, 2.2	6K	100K	40			
	RM	2(1)	250	50-60	40T100	1/1, 1/2-1.1, 2.2	6K	100K	67			
	R	12	250	50-60	40T100	1/1, 1/2-1.1, 2.2	-	10K	40			
	R	12	250	50-60	40T100	1/1, 1/2-1.1, 2.2	-	10K	67			
	R	12	250	50-60	40T100	1/1, 1/2-1.1, 2.2	-	10K	40			
	R	8	250	50-60	40T100	1/1, 1/2-1.1, 2.2	-	10K	40			
	RM	3(1)	250	50-60	40T100	1/1, 1/2-1.1, 2.2	6K	30K	67			
1050	RM	10(3)	250	50-60	T100	1/1-1.2	6K	20K	40	micro	09N01, 14N03, 17N01, 20N01	2013-02-15
	RM	10(3)	250	50-60	T100	1/2-2.2	6K	10K	40			
	RM	2(2)	250	50-60	T100	1/1, 1/2-2.2	6K	50K	40			
	RM	2(1)	250	50-60	T100	1/1, 1/2-2.2	6K	25K	40			

	RM	2(1)	250	50-60	T100	1/1, 1/2-2.2	6K	10K	40			
	R	0.1	250	50-60	T100	1/1, 1/2-2.2	6K	100K	40			
	R	5	250	50-60	T100	1/1, 1/2-2.2	-	50K	40			
	R	5	250	50-60	T100	1/1, 1/2-2.2	-	10K	40			
108 ww/o 0,5,6, ww/o ".", ww/o suffixes 0000-9999												
	RM	10(3)	250	50-60	T85/100	1/1-1.2	-	10K	40	full	8, D16	2005-09-30
1248 ww/o "." ww/o suff. 0000-9999												
	RM	14 (14)	127	50-60	T55	2/1-1.3	6K	50K	00	full	20N01,16N01, Note A11	2009-08-10
1248 ww/o "." ww/o suff. 0000-9999												
	RM	10 (10)	250	50-60	T55	2/1-1.3	6K	50K	00	full	20N01, Note A11	2009-08-10
	R	8	127	DC	T55	2/1-1.3	6K	50K	00			
1257 ww/o suff .0000 thru .9999												
	RM	23 (23)	127	50-60	T55	2/1-1.3	-	50K	40	full >3mm	-	2013-02-15
	RM	20 (20)	127	50-60	T55	2/1-1.3	-	50K	40			
	RM	16 (16)	127	50-60	T55	2/1-1.3	6K	50K	40			
	RM	16 (16)	250	50-60	T55	2/1-1.3	6K	50K	40			
	RM	12 (12)	250	50-60	T55	2/1-1.3	-	50K	40			
	RM	10 (10)	250	50-60	T55	2/1-1.3	-	50K	40			
	RM	8(8)	250	50-60	T55	2/1-1.3	6K	50K	40			
1267 ww/o suff .0000 thru .9999												
	RM	20 (20)	127	50-60	T55	2/1-1.3	-	50K	40	full >3mm	-	2009-08-10
	RM	23 (23)	127	50-60	T55	2/1-1.3	-	50K	40			
	R	20	127	DC	T55	2/1-1.3	6K	50K	40			
	RM	16 (16)	127	50-60	T55	2/1-1.3	6K	50K	40			
	RM	16 (16)	250	50-60	T55	2/1-1.3	6K	50K	40			
	RM	12 (12)	250	50-60	T55	2/1-1.3	6K	50K	40			
	RM	10 (10)	250	50-60	T55	2/1-1.3	6K	50K	40			
	RM	8(8)	250	50-60	T55	2/1-1.3	6K	50K	40			
155 ww/o 0 ww/o suff .0000 thru .9999												
	RM	20 (12)	250	50-60	T100/55	1/1-1.2	6K	10K	40	full >3mm	Note 2,8,D4,D2	2009-08-10
	RM	12 (12)	250	50-60	T100/55	1/1-1.2	6K	50K	40			
155 ww/o 0,1,2 or 5 ww/o suff .0000 thru .9999												
	R	16	250	50-60	T85	1/1-1.2	0K	15K	00	full >3mm	Note 8,D4,D2,D5,D3	2009-08-10
	GP	16	250	50-60	T85	1/1-1.2	6K	0K	00			
155 ww/o 1 ww/o suff .0000 thru .9999												
	RM		250		T100/55	1/1-1.2	6K	10K	40		Note 8,D4,D2	2009-08-10

		20 (12)		50-60						full >3mm		
	RM	12 (12)	250	50-60	T100/55	1/1-1.2	6K	50K	40			
155 ww/o 2 ww/o suff .0000 thru .9999												
	RM	20 (12)	250	50-60	T100/55	2/1-1.3	6K	10K	40	full >3mm	Note 8,D4,D2,D5,D3	2009-08-10
	RM	12 (12)	250	50-60	T100/55	2/1-1.3	6K	50K	40			
	R	16	250	50-60	T85	2/1-1.3	0K	15K	00			
	GP	16	250	50-60	T85	2/1-1.3	6K	0K	00			
155 ww/o 5 ww/o suff .0000 thru .9999												
	RM	16 (10)	250	50-60	T100/55	2/1-1.3	6K	10K	40	full >3mm	Note 2,8,D1,D2	2009-08-10
	RM	10(5)	250	50-60	T100/55	2/1-1.3	6K	50K	40			
	RM	20 (12)	250	50-60	T100/55	2/1-1.3	6K	10K	40			
	RM	12 (12)	250	50-60	T100/55	2/1-1.3	6K	50K	40			
168 w/wo "." or suff. 1,2,8,9 w/wo Suff.0000-9999												
	RM	12 (12)	250	50-60	T105	1/1, 2/1-1.2, 1.3	6K	50K	40	full	-	2009-08-10
	RM	12 (12)	250	50-60	T80	1/1, 2/1-1.2, 1.3	6K	50K	40			
	RC	12-50	250	50-60	T105	1/1, 2/1-1.2, 1.3	6K	10K	40			
	RC	12-50	250	50-60	T80	1/1, 2/1-1.2, 1.3	6K	10K	40			
168 w/wo "." or suff. 8,9 w/wo Suff.0000-9999												
	RM	16 (16)	250	50-60	T100	1/1, 2/1-1.2, 1.3	-	20K	40	full	-	2009-08-10
	RM	16 (16)	250	50-60	T80	1/1, 2/1-1.2, 1.3	-	20K	40			
168 w/wo "." or suff.3,4,6,7 w/wo Suff.0000-9999												
	RM	16 (16)	250	50-60	T100/55	1/1, 2/1-1.2, 1.3	-	20K	40	full	2	2009-08-10
	RM	16 (16)	250	50-60	T80/55	1/1, 2/1-1.2, 1.3	-	20K	40			
	RM	12 (12)	250	50-60	T100/55	1/1, 2/1-1.2, 1.3	6K	50K	40			
	RM	12 (12)	250	50-60	T80/55	1/1, 2/1-1.2, 1.3	6K	50K	40			
	RC	12-50	250	50-60	T100/55	1/1, 2/1-1.2, 1.3	6K	10K	40			
	RC	12-50	250	50-60	T80/55	1/1, 2/1-1.2, 1.3	6K	10K	40			
2200 ww/o suff .0000 thru .9999												
	RM	23 (23)	127	50-60	T55	2/1-1.3	-	50K	40	full >3mm	-	2013-02-15
	RM	20 (20)	127	50-60	T55	2/1-1.3	-	50K	40			
	RM	16 (16)	127	50-60	T55	2/1-1.3	6K	50K	40			
	RM	16 (16)	250	50-60	T55	2/1-1.3	6K	50K	40			
	RM	12 (12)	250	50-60	T55	2/1-1.3	-	50K	40			
	RM	10 (10)	250	50-60	T55	2/1-1.3	-	50K	40			

	RM	8(8)	250	50-60	T55	2/1-1.3	6K	50K	40			
2599 ww/o suff. .0000 thru .9999												
	RM	15 (15)	250	50-60	T55	1/1-1.2	50K	50K	40	full	Note D6	2009-08-10
	RM	15 (15)	127	50-60	T55	1/1-1.2	50K	50K	40			
	RM	8(8)	250	50-60	T55	1/1-1.2	50K	50K	40			
2711.888x ww/o 0 thru 9												
	R	11	20	DC	T55	1/1-1.2	10K	10K	40	full	*(c),*Note C3,*Note C4,*Note C5	2005-09-30
2711.9xxx ww/o suff 000 thru 000												
	R	25	18	DC	T55	1/1-1.2	-	10K	40	full	*(a), *D1, *A, *A1, *C3, C5	2005-09-30
2716 ww/o suff .0000 thru .9999												
	R	20	36	DC	T55	1/1-1.2	6K	10K	40	full	Note C3, E3	2009-08-10
2716.8 ww/o suff 000 thru 999												
	R	28	36	DC	T55	1/1-1.2	6K	10K	40	full	Note C3, E3	2009-08-10
2720 ww/o .0000 to .9999												
	R	15	24	DC	T55	1/1-1.2	0K	10K	40	full	Notes D7, D8, D12, D13	2009-08-10
	R	22	12	DC	T55	1/1-1.2	0K	10K	40			
61.- f/b 00 to 99 ww/o B or 2750 ww/o 0000 to 9999 ww/o B												
	R	12	24	DC	T55	1/1-1.2	50K	50K	40	full	Note D7, Note D8, Note D13	2009-08-10
61.- f/b 00 to 99 ww/o P or 2750 ww/o 0000 to 9999 ww/o P												
	R	20	28	DC	T55	1/1-1.2	0K	50K	40	full	Note D7, Note D8, Note D12	2009-08-10
	R	15	24	DC	T55	1/1-1.2	50K	50K	40			
Rocker												
155 ww/o 0 , 1 ww/o suff .0000 thru .9999												
	R	7	250	50-60	T85/55	1/1-1.2	6K	50K	00	full >3mm	8, Note D4, D14	2013-02-15
	R	7	250	50-60	T85/55	1/1-1.2	6K	50K	40			
	RM	10(4)	250	50-60	T85/55	1/1-1.2	6K	25K	00			
	RM	10(4)	250	50-60	T85/55	1/1-1.2	6K	25K	40			
	R	15	127	50-60	T85/55	1/1-1.2	-	15K	40			
155 ww/o 0 ww/o suff .0000 thru .9999												
	RM	16 (10)	250	50-60	T100/55	1/1-1.2	6K	10K	40	full >3mm	Note 2,8,D1,D2	2009-08-10
	RM	10(5)	250	50-60	T100/55	1/1-1.2	6K	50K	40			
155 ww/o 0, 1 ww/o suff .0000 thru .9999												
	RM	10(4)	250	50-60	T85/55	1/1-1.2	-	25K	40	full >3mm	8, Note D4, D14, D15	2013-02-15
	RM	12(4)	250	50-60	T85/55	1/1-1.2	-	10K	40			
	R	15	127	50-60	T85/55	1/1-1.2	-	15K	40			
155 ww/o 0,1 ww/o suff .0000 thru .9999												
	RM	10(4)	250	50-60	T85/55	1/1, 1/2-1.2	-	25K	00	full >3mm	8, Note D4, D14,D15	2005-09-30
	RM	10(4)	250		T85/55		-	25K	40			

				50-60		1/1, 1/2-1.2						
	RM	10(4)	250	50-60	T115/55	1/1, 1/2-1.2	-	10K	00			
	RM	10(4)	250	50-60	T115/55	1/1, 1/2-1.2	-	10K	40			
155 ww/o 1 ww/o suff .0000 thru .9999												
	RM	16 (10)	250	50-60	T100/55	1/1-1.2	6K	10K	40	full >3mm	Note 8,D1,D2	2009-08-10
	RM	10(5)	250	50-60	T100/55	1/1-1.2	6K	50K	40			
155 ww/o 2 ww/o suff .0000 thru .9999												
	RM	16 (10)	250	50-60	T100/55	2/1-1.3	6K	10K	40	full >3mm	Note 8,D1,D2	2009-08-10
	RM	10(5)	250	50-60	T100/55	2/1-1.3	6K	50K	40			
18 w/wo suff 01, 02, 11, 12, 21, 22, 81, w/wo suff .0000 thru .9999												
	RM	12(4)	250	50-60	T80/55	1/1-1.2	-	10K	40	full	-	2009-08-10
	RM	12(4)	250	50-60	T80/55	2/1-1.3	-	10K	40			
	RM	8(8)	250	50-60	T80/55	1/1-1.2	-	50K	40			
	RM	8(8)	250	50-60	T80/55	2/1-1.3	-	50K	40			
	RM	10(4)	250	50-60	T80/55	1/1-1.2	-	10K	40			
	RM	10(4)	250	50-60	T80/55	2/1-1.3	-	10K	40			
	RM	6(4)	250	50-60	T80/55	1/1-1.2	-	50K	40			
	RM	6(4)	250	50-60	T80/55	1/2-1.3	-	50K	40			
	RM	6(3)	250	50-60	T80/55	1/1-1.2	-	10K	40			
	RM	6(3)	250	50-60	T80/55	2/1-1.3	-	10K	40			
18 w/wo suff 03, 04, 13, 14, 23, 24, 83 w/wo suff .0000 thru .9999												
	RM	12(4)	250	50-60	T80/55	1/2-2.2	-	10K	40	full	-	2009-08-10
	RM	12(4)	250	50-60	T80/55	2/2-2.4	-	10K	40			
	RM	8(8)	250	50-60	T80/55	1/2-2.2	-	50K	40			
	RM	8(8)	250	50-60	T80/55	2/2-2.4	-	50K	40			
	RM	10(4)	250	50-60	T80/55	1/2-2.2	-	10K	40			
	RM	10(4)	250	50-60	T80/55	2/2-2.4	-	10K	40			
	RM	6(4)	250	50-60	T80/55	1/2-2.2	-	50K	40			
	RM	6(4)	250	50-60	T80/55	2/2-2.4	-	50K	40			
	RM	6(3)	250	50-60	T80/55	1/1-1.2	-	10K	40			
	RM	6(3)	250	50-60	T80/55	2/1-1.3	-	10K	40			
18 w/wo suff 06 w/wo suff .0000 thru .9999												
	RM	12(4)	250	50-60	T80/55	1/1-1.2	-	10K	40	full	Note F1	2009-08-10
	RM	12(4)	250	50-60	T80/55	1/2-2.2	-	10K	40			

	RM	12(4)	250	50-60	T80/55	2/1-1.3	-	10K	40			
	RM	12(4)	250	50-60	T80/55	2/2-2.4	-	10K	40			
	RM	8(8)	250	50-60	T80/55	1/1-1.2	-	50K	40			
	RM	8(8)	250	50-60	T80/55	1/2-2.2	-	50K	40			
	RM	8(8)	250	50-60	T80/55	2/1-1.3	-	50K	40			
	RM	8(8)	250	50-60	T80/55	2/2-2.4	-	50K	40			
	RM	10(4)	250	50-60	T80/55	1/1-1.2	-	10K	40			
	RM	10(4)	250	50-60	T80/55	1/2-2.2	-	10K	40			
	RM	10(4)	250	50-60	T80/55	2/1-1.3	-	10K	40			
	RM	10(4)	250	50-60	T80/55	2/2-2.4	-	10K	40			
	RM	6(4)	250	50-60	T80/55	1/1-1.2	-	50K	40			
	RM	6(4)	250	50-60	T80/55	1/2-2.2	-	50K	40			
	RM	6(4)	250	50-60	T80/55	2/1-1.3	-	50K	40			
	RM	6(4)	250	50-60	T80/55	2/2-2.4	-	50K	40			
	RM	6(3)	250	50-60	T80/55	1/1-3.2	-	10K	40			
	RM	6(3)	250	50-60	T80/55	1/2-3.2	-	10K	40			
	RM	6(3)	250	50-60	T80/55	2/1-3.4	-	10K	40			
	RM	6(3)	250	50-60	T80/55	2/2-3.4	-	10K	40			
18 w/wo suff 08, 09, 18, 19, 28, 29, 88 w/wo suff .0000 thru .9999xx												
	RM	6(3)	250	50-60	T80/55	1/2-3.2	6K	10K	40	full	-	2009-08-10
	RM	6(3)	250	50-60	T80/55	2/2-3.4	6K	10K	40			
18 ww/o suff 00, 05, ww/o suff .0000 thru .9999												
	RM	12(4)	250	50-60	T80/55	1/1-1.2	-	10K	40	full	Note F1	2009-08-10
	RM	12(4)	250	50-60	T80/55	2/1-1.3	-	10K	40			
	RM	8(8)	250	50-60	T80/55	1/1-1.2	-	50K	40			
	RM	8(8)	250	50-60	T80/55	2/1-1.3	-	50K	40			
	RM	10(4)	250	50-60	T80/55	1/1-1.2	-	10K	40			
	RM	10(4)	250	50-60	T80/55	2/1-1.3	-	10K	40			
	RM	6(4)	250	50-60	T80/55	1/1-1.2	-	50K	40			
	RM	6(4)	250	50-60	T80/55	2/1-1.3	-	50K	40			
	RM	6(3)	250	50-60	T80/55	1/1-1.2	-	10K	40			
	RM	6(3)	250	50-60	T80/55	2/1-1.3	-	10K	40			
183 w/wo ".", 0, 5 ww/o ".", ww/o suffixes 0000-9999												

	RM	4(2)	250	50-60	T100/55	1,2/1,2-1.2, 1.3	0K	10K	40	full	Note A, F1	2009-08-10
	RM	6(4)	250	50-60	T100/55	1,2/1,2-1.2, 1.3	0K	50K	40			
	RM	10(4)	250	50-60	T100/55	1,2/1,2-1.2, 1.3	0K	10K	40			
	RM	16(4)	250	50-60	T100/55	1,2/1,2-1.2, 1.3	0K	10K	40			
	RM	20 (10)	250	50-60	T80/55	1,2/1,2-1.2, 1.3	0K	10K	40			
	RM	10(8)	400	50-60	T80/55	1,2/1,2-1.2, 1.3	0K	50K	40			
183 w/wo ".", 1, 2, 3, 4 ww/o ".", ww/o suffixes 0000-9999												
	RM	4(2)	250	50-60	T100/55	1,2/1,2-1.2, 1.3	0K	10K	40	full	Note A	2009-08-10
	RM	4(2)	250	50-60	T100/55	1,2/1,2-2.2, 2.4	0K	10K	40			
	RM	6(4)	250	50-60	T100/55	1,2/1,2-1.2, 1.3	0K	50K	40			
	RM	6(4)	250	50-60	T100/55	1,2/1,2-2.2, 2.4	0K	50K	40			
	RM	10(4)	250	50-60	T100/55	1,2/1,2-1.2, 1.3	0K	10K	40			
	RM	10(4)	250	50-60	T100/55	1,2/1,2-2.2, 2.4	0K	10K	40			
	RM	16(4)	250	50-60	T100/55	1,2/1,2-1.2, 1.3	0K	10K	40			
	RM	16(4)	250	50-60	T100/55	1,2/1,2-2.2, 2.4	0K	10K	40			
	RM	20 (10)	250	50-60	T80/55	1,2/1,2-1.2, 1.3	0K	10K	40			
	RM	20 (10)	250	50-60	T80/55	1,2/1,2-2.2, 2.4	0K	10K	40			
	RM	10(8)	400	50-60	T80/55	1,2/1,2-1.2, 1.3	0K	50K	40			
	RM	10(8)	400	50-60	T80/55	1,2/1,2-2.2, 2.4	0K	50K	40			
183 w/wo ".", 8, 9 ww/o ".", ww/o suffixes 0000-9999												
	RM	16(4)	250	50-60	T100/55	1,2/2-3.2, 3.4	0K	10K	40	full	Note A	2009-08-10
	RM	6(4)	250	50-60	T100/55	1,2/2-3.2, 3.4	0K	10K	40			
1852	RM	4(1)	250	50-60	T85/55	2/1-1.3	10K	10K	40	full 3.2mm	-	2013-02-15
1858	RM	6(4)	250	50-60	T100/55	2/1-1.3	50K	50K	40	full 3.2mm	2	2013-02-15
	RM	10(4)	250	50-60	T100/55	2/1-1.3	10K	10K	40			
	RC	5-100	250	50-60	T100/55	2/1-1.3	10K	10K	40			
1901 and 1911 and 1921 ww/o "." ww/o suff. 0000-9999												
	RM	6(2)	250	50-60	T100/55	1/1-1.2	6K	10K	40	full	Note G1	2009-08-10
	RM	4(1)	250	50-60	T100/55	1/1-1.2	6K	50K	40			
193 w/wo ".", 2, 4 ww/o ".", ww/o suffixes 0000-9999												
	RM	16.1 (8)	250	50-60	T100/55	1,2/1,2-1.2, 1.3	0K	50K	40	full	Note A	2009-08-10
	RM	16.1 (8)	250	50-60	T100/55	1,2/1,2-2.2, 2.4	0K	50K	40			
	RM	16 (16)	127	50-60	T100/55	1,2/1,2-1.2, 1.3	0K	10K	40			
	RM		127		T100/55		0K	10K	40			

		16 (16)		50-60		1,2/1,2-2.2, 2.4						
	RM	20 (10)	250	50-60	T80/55	1,2/1,2-1.2, 1.3	0K	10K	40			
	RM	20 (10)	250	50-60	T80/55	1,2/1,2-2.2, 2.4	0K	10K	40			
	RM	10(8)	400	50-60	T80/55	1,2/1,2-1.2, 1.3	0K	50K	40			
	RM	10(8)	400	50-60	T80/55	1,2/1,2-2.2, 2.4	0K	50K	40			
193 w/wo ".", 5 ww/o ".", ww/o suffixes 0000-9999												
	RM	16 (16)	127	50-60	T100/55	1,2/1,2-1.2, 1.3	0K	10K	40	full	Note A, F1	2009-08-10
	RM	16 (16)	250	50-60	T100/55	1,2/1,2-2.2, 2.4	0K	10K	40			
	RM	16.1 (8)	250	50-60	T100/55	1,2/1,2-1.2, 1.3	0K	50K	40			
	RM	16.1 (8)	250	50-60	T100/55	1,2/1,2-2.2, 2.4	0K	50K	40			
	RM	20 (10)	250	50-60	T80/55	1,2/1-1.2, 1.3	0K	10K	40			
	RM	10(8)	400	50-60	T80/55	1,2/1-1.2, 1.4	0K	50K	40			
193 w/wo ".", 9 ww/o ".", ww/o suffixes 0000-9999												
	RM	12(4)	250	50-60	T100/55	1,2/2-3.4	0K	10K	40	full	Note A	2009-08-10
Rotary												
1703. w/wo suff. 0000. - 9999.												
	RM	16 (16)	250	50-60	T80	6/1-1.4/1.6	-	50K	40	full	H1, H2	2009-08-10
	RM	20(4)	400	50-60	T80	6/1-1.4/1.6	-	10K	40			
	RM	20(4)	400	50-60	T100	6/1-1.4/1.6	-	10K	40			
	R	5	250	50-60	T80	6/1-1.4/1.6	-	10K	40			
	R	5	250	50-60	T100	6/1-1.4/1.6	-	10K	40			
	R	20	15	DC	T80	6/1-1.4/1.6	-	10K	40			
	R	20	15	DC	T100	6/1-1.4/1.6	-	10K	40			
	R	0.3	15	DC	T80	6/1-1.4/1.6	-	10K	40			
	R	0.3	15	DC	T100	6/1-1.4/1.6	-	10K	40			
Slide, "1206."												
1206 ww/o "." ww/o suff. 0000-9999												
	RM	16 (16)	250	50-60	T55	1/1-1.2	-	50000K	40	full	Note J1, J2, J3, J4	2005-09-30
	R	26	36	DC	T55	1/1-1.2	-	10000K	40			
Slide												
4021, 4024	RM	2(0.5)	250	50-60	50	1/2-1.2	6K	10K	40	full 3.6	16N01	2013-02-15
	RM	2(0.5)	250	50-60	50	2/2-1.4	6K	10K	40			
	RM	2(0.5)	250	50-60	50	M/M-1.1	6K	10K	40			
4021, 4024 Voltage Selector												
	R	10	250	50-60	50	1/2-1.2	-	10K	40	full 3.6	16N01, 17N01, 17N02	2013-02-15
	R	10	250	50-60	50	2/2-1.4	-	10K	40			
	R	10	250		50	M/M-1.1	-	10K	40			

				50-60								
Toggle												
1539 ww/o suff. 0000 thru. 9999												
	RM	3.5 (3.5)	250	50-60	T55	2/1-1.3	6K	10K	40	full 1.5	Note 4	2005-09-30
	RM	7(7)	125	50-60	T55	2/1-1.3	6K	10K	40			
R13-452K-02	RM	7	125	50-60	55	2/1-1.3	6K	50K	4-	full 1.5	-	2005-09-30
	RM	3.5	250	50-60	55	2/1-1.3	6K	50K	4-			
Trigger												
1269 or 1369 ww/o suff .0000 thru .9999 (a)												
	RM	15 (15)	125	50-60	T55	1/1, 2/1-1.3	6K	50K	40	full 3.0	Notes A, A1	2005-09-30
	R	15	125	50-60	T55	1/1, 2/1-1.3	6K	50K	40			
	R	15	125	DC	T55	1/1, 2/1-1.3	6K	50K	40			
	R	25	36	DC	T55	1/1, 2/1-1.2/1.3	6K	50K	40			
	hp	1-1/2	127	DC	T55	1/1, 2/1-1.2/1.3	6K	0K	40			
	R	30	24	DC	T55	1/1, 2/1-1.2/1.3	50K	50K	40			
	RM	22 (22)	127	50-60	T55	1/1, 2/1-1.3	-	50K	40			
	R	22	127	DC	T55	1/1, 2/1-1.2	-	50K	40			
	R	30	45	DC	T55	1/1, 2/1-1.2	-	50K	40			
2069 ww/o suff .0000 thru .9999 (a)												
	RM	15 (12)	127	50-60	T55	1/1-1.2	6K	50K	40	full 3.0	Notes A1, A, B1	2005-09-30
	RM	13 (12)	127	50-60	T55	1/1-1.2	6K	50K	40			
2069 ww/o suff .0000 thru .9999 (b)												
	GP	15	127	50-60	T55	1/1-1.2	6K	50K	40	full 3.0	Notes A, A1, B3, C, C1	2005-09-30
	GP	13	127	50-60	T55	1/1-1.2	6K	50K	40			
	RM	15 (15)	127	50-60	T55	1/1-1.2	-	50K	40			
	RM	13 (13)	127	50-60	T55	1/1-1.2	-	50K	40			
2500 ww/o suff .0000 thru .9999 (a)												
	RM	16 (16)	127	50-60	T55	1/1-1.2	6K	50K	40	full 3.0	Notes A, A1, B6	2005-09-30
2500 ww/o suff .0000 thru .9999 (b)												
	GP	10	127	50-60	T55	1/1-1.2	6K	50K	40	full 3.0	Notes A, A1, B5, C, C2	2005-09-30
	RM	10 (10)	127	50-60	T55	1/1-1.2	6K	50K	40			
2505 ww/o suff .0000 thru .9999 (b)												
	GP	7	127	50-60	T55	1/1-1.2	6K	50K	40	full 3.2	Notes A, A1, B4, C, C1, C7	2013-02-15
	RM	10.5 (10.5)	127	50-60	T55	1/1-1.2	-	50K	40			
2506 ww/o suff .0000 thru .9999 (b)												

	GP	8	127	50-60	T55	1/1-1.2	6K	50K	40	full 3.2	Notes A, A1, B4, C, C1, C7	2013-02-15
	RM	10.5 (10.5)	127	50-60	T55	1/1-1.2	-	50K	40			
2507 ww/o suff .0000 thru .9999 (b)												
	GP	10	127	50-60	T55	1/1-1.2	6K	50K	40	full 3.2	Notes A, A1,B4, C, C1, C7	2013-02-15
	RM	10.5 (10.5	127	50-60	T55	1/1-1.2	-	50K	40			
2508 ww/o suff .0000 thru .9999 (b)												
	RM	10.5 (10.5	127	50-60	T55	1/1-1.2	-	50K	40	full 3.2	Notes A, A1, C, C7	2013-02-15
Trigger Tool Switch												
1298 ww/o suff .0000 thru .9999												
	RM	13 (13)	250	50-60	T55	1/1-1.2	-	50K	40	full	D9, D10	2005-09-30
1298 ww/o suff .0000 thru .9999 except .1903 / .6806 / .6807												
	RM	11 (11)	127	50-60	T55	1/1-1.2	-	50K	40	full	A3, D10	2005-09-30
1299 ww/o suff .0000 thru .9999												
	RM	13 (13)	250	50-60	55	1/1-1.2	-	50K	40	full	A3, A4	2005-09-30
2711 ww/o suff .0000 thru .9999												
	R	22.5	14.4	DC	T55	1/1-1.2	0K	6K	40	full	Note C3, E1, (c)	2009-08-10
	R	22.5	21.6	DC	T55	1/1-1.2	0K	6K	40			
, "1681"												
168 w/wo "." or suff. 1 w/wo Suff. 0000-9999												
	RM	16 (16)	250	50-60	T80	1/1, 2/1-1.2, 1.3	-	20K	40	full	-	2013-02-15
	RM	16 (16)	250	50-60	T105	1/1, 2/1-1.2, 1.3	-	20K	40			
0045 w/wo suffix 0000 thru 9999, w/wo Code R104												
	-	4	250	DC	65	-	6K	-	--	-	6 (18,16,14)	2005-09-30
1050 w/wo Code R116 (d)												
	GP	-	125-250	60	100	-	-	-	--	-	-	2005-09-30
	GP	-	125-250	60	100	-	-	-	--			
1050 w/wo Code R126 (d)												
	GP	8	125-250	60	100	-	6K	-	--	-	-	2005-09-30
	1/4hp	-	125-250	60	100	-	6K	-	--			
1268 w/wo Code R103												
	GP	-	125	60	65	-	-	-	--	-	6 (18,16,14)	2005-09-30
	GP	-	125	60	65	-	-	-	--			

Marking: Company name or trademark MARQUARDT, MARQUARDT, , catalog, model or part number, electrical ratings and the Recognized Component Mark, on the product or on the smallest unit container in which the product is packaged.

Investigated to ANSI/UL 1054

Cat. No.	Amps	Volts	Hz	Load	Endur-ance	Temp C	POL/ THR	Per Pole/ Circuit Code	SPCOA
0145 w/wo Code R45	10	125	DC	-	6K	65	2/1	-/-	6 (18,16,14)
	6	250	DC	-	6K				
1004 w/wo Code R109 (c)	16	125-250	60	GP	6K	65	1/1	-/-	-
	-	125-250	60	1/2hp	6K				

	8	250	60	GP	6K				
1004 w/wo Code R109 (d)	16	125-250	60	GP	6K	65	1/2	-/-	-
	-	125-250	60	1/2hp	6K				
	8	250	60	GP	6K				
1004 w/wo Code R21 (c)	8	125-250	60	GP	6K	65	1/1	-/-	-
	-	125-250	60	1/3hp	6K				
1004 w/wo Code R21 (d)	8	125-250	60	GP	6K	65	1/2	-/-	-
	-	125-250	60	1/3hp	6K				
1004 w/wo Code R5 (c)	4	125-250	60	GP	6K	65	1/1	-/-	-
	-	125-250	60	1/6hp	6K				
1004 w/wo Code R5 (d)	4	125-250	60	GP	6K	65	1/2	-/-	-
	-	125-250	60	1/6hp	6K				
1005 w/wo Code R152 (c)	21	125-250	60	GP	6K	65	1/1	-/-	9
	-	125	60	1hp	6K				
	-	250	60	2hp	6K				
1005 w/wo Code R152 (d)	21	125-250	60	GP	6K	65	1/2	-/-	9
	-	125	60	1hp	6K				
	-	250	60	2hp	6K				
1005 w/wo Code R171 (c)	18	18	DC	-	6K	60	1/1	-/-	-
1005 w/wo Code R171 (d)	18	18	DC	-	6K	60	1/2	-/-	-
1005, 1006 w/wo Code R10 (c)									
	10	125-250	60	GP	6K	65	1/1	-/-	9
	-	125-250	60	1/2hp	6K				
1005, 1006 w/wo Code R10 (d)									
	10	125-250	60	GP	6K	65	1/2	-/-	9
	-	125-250	60	1/2hp	6K				
1005, 1006 w/wo Code R109 (c)									
	16	125-250	60	GP	6K	65	1/1	-/-	9
	-	125-250	60	1/2hp	6K				
	8	250	60	GP	6K				
1005, 1006 w/wo Code R109 (d)									
	16	125-250	60	GP	6K	65	1/2	-/-	9
	-	125-250	60	1/2hp	6K				
	8	250	60	GP	6K				
1005, 1006 w/wo Code R36 (c)									
	6	125-250	60	GP	6K	65	1/1	-/-	9
	6	48	DC	-	6K				
	-	125-250	60	1/4hp	6K				
1005, 1006 w/wo Code R36 (d)									
	6	125-250	60	GP	6K	65	1/2	-/-	9
	6	48	DC	-	6K				
	-	125-250	60	1/4hp	6K				
1005, 1006 w/wo Code R38 (c)									
	16	125-250	60	GP	6K	65	1/1	-/-	9
	-	125	60	1hp	6K				
	-	250	60	2hp	6K				

1005, 1006 w/wo Code R38 (d)									
	16	125-250	60	GP	6K	65	1/2	-/-	9
	-	125	60	1hp	6K				
	-	250	60	2hp	6K				
1005, 1006 w/wo Code R44 (c)									
	10	125-250	60	GP	6K	65	1/1	-/-	9
	-	125-250	60	1/4hp	6K				
1005, 1006 w/wo Code R44 (d)									
	10	125-250	60	GP	6K	65	1/2	-/-	9
	-	125-250	60	1/4hp	6K				
1005, 1006 w/wo Code R6 (c)									
	4	250	60	GP	6K	65	1/1	-/-	9
	-	250	60	1/4hp	6K				
	-	125	60	1/6hp	6K				
1005, 1006 w/wo Code R6 (d)									
	4	250	60	GP	6K	65	1/2	-/-	9
	-	250	60	1/4hp	6K				
	-	125	60	1/6hp	6K				
1005, 1006 w/wo Code R9 (c)									
	6	125-250	60	GP	6K	65	1/1	-/-	9
	-	125-250	60	1/4hp	6K				
1005, 1006 w/wo Code R9 (d)									
	6	125-250	60	GP	6K	65	1/2	-/-	9
	-	125-250	60	1/4hp	6K				
1010 w/wo Code R5	4	125-250	60	GP	6K	65	1/1	-/-	-
	-	125-250	60	1/6hp	6K				
1019 w/wo Code R117	5	125-250	60	GP	6K	85	1/1	-/-	3
1019 w/wo Code R57	5	125-250	60	GP	6K	85	1/1	-/-	3, 9
1050 w/wo Code R116 (c)	10.1	125-250	60	GP	6K	100	1/1	-/-	-
	-	125-250	60	1/4hp	6K				
1050 w/wo Code R126 (c)	8	125-250	60	GP	6K	100	1/1	-/-	-
	-	125-250	60	1/4hp	6K				
1050 w/wo Code R18 (c)	2	125-250	60	GP	6K	100	1/1	-/-	-
1050 w/wo Code R18 (d)	2	125-250	60	GP	6K	100	1/2	-/-	-
1050 w/wo Code R56 (c)	5	125-250	60	GP	6K	100	1/1	-/-	-
	-	125-250	60	1/10hp	6K				
1050 w/wo Code R56 (d)	5	125-250	60	GP	6K	100	1/2	-/-	-
	-	125-250	60	1/10hp	6K				
1052 w/wo Code R18	2	125-250	60	GP	6K	65	1/2	-/-	-
1052 w/wo Code R56	5	125-250	60	GP	6K	65	1/2	-/-	-
	-	125-250	60	1/10hp	6K				
1080, 1085 w/wo Code R109 (c)									
	16	125-250	60	GP	6K	85	1/1	-/-	-
	-	125-250	60	1/2hp	6K				
1080, 1085 w/wo Code R109 (d)									
	16	125-250	60	GP	6K	85	1/2	-/-	-
	-	125-250	60	1/2hp	6K				
1080, 1085 w/wo Code R132 (c)									

	3	125-250	60	GP	6K	85	1/1	-/-	-
1080, 1085 w/wo Code R132 (d)									
	3	125-250	60	GP	6K	85	1/2	-/-	-
1080, 1085 w/wo Code R134 (c)									
	6	125-250	60	GP	6K	85	1/1	-/-	-
	-	125	60	1/10hp	6K				
	-	250	60	1/4hp	6K				
1080, 1085 w/wo Code R134 (d)									
	6	125-250	60	GP	6K	85	1/2	-/-	-
	-	125	60	1/10hp	6K				
	-	250	60	1/4hp	6K				
1080, 1085 w/wo Code R135 (c)									
	16	125-250	60	GP	6K	85	1/1	-/-	-
	-	125	60	1/3hp	6K				
	-	250	60	1/2hp	6K				
1080, 1085 w/wo Code R135 (d)									
	16	125-250	60	GP	6K	85	1/2	-/-	-
	-	125	60	1/3hp	6K				
	-	250	60	1/2hp	6K				
1080, 1085 w/wo Code R152 (c)									
	21	125-250	60	GP	6K	85	1/1	-/-	-
	-	125	60	1hp	6K				
	-	250	60	2hp	6K				
1080, 1085 w/wo Code R152 (d)									
	21	125-250	60	GP	6K	85	1/2	-/-	-
	-	125	60	1hp	6K				
	-	250	60	2hp	6K				
1080, 1085 w/wo Code R153 (c)									
	21	125-250	60	GP	6K	85	1/1	-/-	-
	-	125	60	1/2hp	6K				
	-	250	60	1-1/2hp	6K				
1080, 1085 w/wo Code R153 (d)									
	21	125-250	60	GP	6K	85	1/2	-/-	-
	-	125	60	1/2hp	6K				
	-	250	60	1-1/2hp	6K				
1080, 1085 w/wo Code R50 (c)									
	10	125-250	60	GP	6K	85	1/1	-/-	-
	-	125	60	1/2hp	6K				
	-	250	60	1/2hp	6K				
1080, 1085 w/wo Code R50 (d)									
	10	125-250	60	GP	6K	85	1/2	-/-	-
	-	125	60	1/2hp	6K				
	-	250	60	1/2hp	6K				
1085 w/wo Code R165 (c)	10	125-250	60	GP	6K	85	1/1	-/-	-
	-	125	60	1/8hp	6K				
	-	250	60	1/3hp	6K				
1085 w/wo Code R165 (d)	10	125-250	60	GP	6K	85	1/2	-/-	-

	-	125	60	1/8hp	6K				
	-	250	60	1/3hp	6K				
1095 w/wo Code R98	6	125	60	GP	1K	85	1/1	-/-	-
	-	125	60	1/3hp	1K				
1115 w/wo Code R68	12	125	60	GP	6K	65	1/1	-/-	-
	6	250	60	GP	6K				
	-	125-250	60	1/6hp	6K				
1115 w/wo Code R90	12	125	60	GP	6K	65	1/1	-/-	-
	6	250	60	GP	6K				
	0.3	24	DC	-	6K				
	-	125-250	60	1/6hp	6K				
1117 w/wo Code R84	12	125-250	60	GP	6K	65	1/1	-/-	-
	-	125	60	1/6hp	6K				
	-	250	60	1/2hp	6K				
1145, 1245, w/wo Code R29 (c)									
	8	125	60	GP	6K	65	1/1	-/-	6 (18,16,14)
	4	250	60	GP	6K				
1145, 1245, w/wo Code R29 (e)									
	8	125	60	GP	6K	65	2/1	-/-	6 (18,16,14)
	4	250	60	GP	6K				
1201	8	125	60	GP	-	65	2/2	PP/-	6 (16), Note 5
1206 w/wo Code R156	25	12-36	DC	-	6K	65	1/1	-/-	Note 10
1206 w/wo Code R178	15	125	60	GP	6K	65	1/1	-/-	Note 10
	8	250	60	GP	6K				
124, w/wo 6, w/wo suffix, 0000 thru .9999, w/wo R115									
	12	125	60	GP	6K	65	2/1	-/-	3
	6	250	60	GP	6K				
124, w/wo 6, w/wo suffix, 0000 thru .9999, w/wo R139									
	14	125	60	GP	6K	65	2/1	-/-	3
	8	250	60	GP	6K				
	8	125	DC	-	6K				
124, w/wo 6, w/wo suffix, 0000 thru .9999, w/wo R170									
	9	125	DC	-	6K	65	2/1	-/-	3
124, w/wo 7, w/wo suffix, 0000 thru .9999, w/wo R191									
	8	125	DC	GP	6K	65	-	-/-	3
	-	125	DC	1/3hp	6K				
124, w/wo 7, w/wo suffix, 0000 thru .9999, w/wo R48 (c)									
	10	125	60	GP	6K	65	1/1	-/-	3
	5	250	60	GP	6K				
124, w/wo 7, w/wo suffix, 0000 thru .9999, w/wo R48 (e)									
	10	125	60	GP	6K	65	2/1	-/-	3
	5	250	60	GP	6K				
124, w/wo 9, w/wo suffix, 0000 thru .9999, w/wo R157									
	25	24	DC	-	6K	65	2/1	-/-	3, 4
124, w/wo 9, w/wo suffix, 0000 thru .9999, w/wo R172									
	15	125	60	GP	6K	65	2/1	-/-	3
	15	125	DC	GP	6K				
	-	125	60	1hp	6K				
	-	125	DC	1hp	6K				

1245 w/wo Code R111	9	125	60	GP	6K	65	2/1	-/-	6 (18,16,14)
1245, w/wo Code R78	6	125	DC	-	6K	65	2/1	-/-	6 (18,16,14)
1251 w/wo Code R24	25	125	60	GP	6K	65	2/1	-/-	6 (12,14,16)
1251 w/wo Code R51	20	125	DC	GP	6K	65	2/1	-/-	6 (16,14,12)
	20	250	60	GP	6K				
	-	125	60	1-1/2hp	6K				
	-	250	60	2hp	6K				
1251, 1264 w/wo Code R37	20	125-250	60	GP	6K	65	2/1	-/-	6 (16,14,12)
	-	125	60	1-1/2hp	6K				
	-	250	60	2hp	6K				
1252, 1263 w/wo Code R95	16	125-250	60	GP	6K	65	2/1	-/-	6 (16,14,12)
	-	125	60	1hp	6K				
	-	250	60	1-1/2hp	6K				
1257, 1267 w/wo .0000 thru .9999, w/wo Code R37									
	20	125	60	GP	6K	65	2/1	-/-	Note 6
	20	250	60	GP	6K				
	-	125	60	1-1/2hp	6K				
	-	250	60	2hp	6K				
1257, 2200 w/wo .0000 thru .9999, w/wo Code R114									
	14	125	60	GP	6K	65	2/1	-/-	Note 6
	14	250	60	GP	6K				
	-	125	60	3/4hp	6K				
	-	250	60	1-1/2hp	6K				
1257, 2200 w/wo .0000 thru .9999, w/wo Code R38									
	16	125	60	GP	6K	65	2/1	-/-	Note 6
	16	250	60	GP	6K				
	-	125	60	1hp	6K				
	-	250	60	2hp	6K				
1262 w/wo Code R43, w/wo suffix .0000 thru .9999									
	10	125	60	GP	6K	65	2/1	-/-	-
	20	125	DC	-	6K				
1264 w/wo Code R59	16	125	DC	-	6K	65	2/1	-/-	6 (16,14,12)
	20	250	60	GP	6K				
	-	125	60	1-1/2hp	6K				
	-	250	60	2hp	6K				
1267 w/wo .0000 thru .9999, w/wo Code R38									
	16	125-250	60	GP	6K	65	2/1	-/-	Note 6
	-	125	60	1hp	6K				
	-	250	60	2hp	6K				
1267 w/wo .0000 thru .9999, w/wo Code R80									
	20	125	DC	GP	6K	65	2/1	-/-	Note 6
	10	250	DC	GP	6K				
	-	125	DC	1-1/2hp	6K				
	-	250	DC	1hp	6K				
1267.7 w/wo .0000 thru .9999, w/wo Code R114									
	14	125-250	60	GP	6K	80	2/1	-/-	Note 6
	-	125	60	3/4hp	6K				
	-	250	60	1-1/2hp	6K				

1267.7 w/wo .0000 thru .9999, w/wo Code R38									
	16	125-250	60	GP	6K	80	2/1	-/-	Note 6
	-	125	60	1hp	6K				
	-	250	60	2hp	6K				
1269 w/wo Code R156 (c)	25	12-36	DC	-	6K	60	1/1	-/-	-
1269 w/wo Code R156 (e)	25	12-36	DC	-	6K	60	2/1	-/-	-
1269 w/wo Code R158	22	125	60	GP	6K	60	1/1	-/-	-
	10	250	60	GP	6K				
	-	125	60	1-1/2hp	6K				
	-	250	60	1hp	6K				
1269 w/wo Code R159	22	125	60	GP	6K	60	2/1	-/-	-
	10	250	60	GP	6K				
	22	125	DC	GP	6K				
	-	250	DC	1hp	6K				
	-	125	60	1-1/2hp	6K				
	-	250	60	1hp	6K				
	-	125	DC	1-1/2hp	6K				
1269 w/wo Code R164	22	125	60	GP	6K	60	1/1	-/-	-
	15	125	DC	-	6K				
	-	125	60	1-1/2hp	6K				
1269 w/wo Code R167	30	24	DC	-	6K	60	1/1	-/-	-
1269 w/wo Code R169	22	125	60	GP	6K	60	1/1	-/-	-
	22	125	DC	GP	6K				
	-	125	60	1-1/2hp	6K				
	-	125	DC	1-1/2hp	6K				
1269 w/wo Code R197	15	125	60	GP	6K	60	1/1	-/-	-
	15	125	DC	-	6K				
	30	124	DC	-	6K				
1269 w/wo Code R219	30	45	DC	-	6K	60	1/1	-/A	-
1276 w/wo Code R96	13	125	60	GP	6K	65	1/1	-/-	6 (16,18)
	6	250	60	GP	6K				
1281 w/wo Code R108	17.5	125	60	GP	6K	65	2/1	PP/-	6 (18, 16, 14)
	-	125	60	1hp	6K				
1281 w/wo Code R42	10	125-250	60	GP	6K	65	2/1	PP/-	6 (18, 16, 14)
	-	125	60	3/4hp	6K				
	-	250	60	1-1/2hp	6K				
1282 w/wo Code R100	8	125	60	GP	6K	65	2/1	-/-	Note 3
	4	250	60	GP	6K				
	-	125	60	1/2hp	6K				
	-	250	60	3/4hp	6K				
1298,1299 w/wo Code R73	10	125	60	GP	6K	65	1/2	-/-	5, 6 (18)
	-	125	60	1/3hp	6K				
1299 w/wo Code R168	13	125	60	GP	6K	65	1/1	-/-	5, 6 (8)
1362 w/wo .0000 thru .9999, w/wo Code R125									
	15	125	60	GP	6K	65	2/1	-/-	Note 6
1369 w/wo Code R195	22	125	60	GP	6K	60	1/1	-/-	-
155 w/wo ., 0, 1, 2, 5, w/wo Code R112, w/wo suffix RMTE (c)									

	10	125-250	60	GP	6K	105	1/1	PP/-	2, 3, Note 7, 8
	-	125	60	1/4hp	6K				
	-	250	60	1/2hp	6K				
155 w/wo ., 0, 1, 2, 5, w/wo Code R112, w/wo suffix RMTE (e)									
	10	125-250	60	GP	6K	105	2/1	PP/-	2, 3, Note 7, 8
	-	125	60	1/4hp	6K				
	-	250	60	1/2hp	6K				
155 w/wo ., 0, 1, 2, 5, w/wo Code R131 (c)									
	16	28	60	GP	6K	105	1/1	-/-	2, 3, Note 7, 8
155 w/wo ., 0, 1, 2, 5, w/wo Code R131 (e)									
	16	28	60	GP	6K	105	2/1	-/-	2, 3, Note 7, 8
155 w/wo ., 0, 1, 2, 5, w/wo Code R144, w/wo suffix RMTE (c)									
	16	125	60	GP	6K	105	1/1	PP/-	2, 3, Note 7, 8
	-	125	60	1hp	6K				
155 w/wo ., 0, 1, 2, 5, w/wo Code R144, w/wo suffix RMTE (e)									
	16	125	60	GP	6K	105	2/1	PP/-	2, 3, Note 7, 8
	-	125	60	1hp	6K				
155 w/wo ., 0, 1, 2, 5, w/wo Code R145 w/wo suffix RMTE (c)									
	16	250	60	GP	6K	105	1/1	PP/-	2, 3, Note 7, 8
	-	250	60	2hp	6K				
155 w/wo ., 0, 1, 2, 5, w/wo Code R145 w/wo suffix RMTE (e)									
	16	250	60	GP	6K	105	2/1	PP/-	2, 3, Note 7, 8
	-	250	60	2hp	6K				
155 w/wo ., 0, 1, 2, 5, w/wo Code R174, w/wo suffix RMTE (c)									
	20	125-250	60	GP	6K	105	1/1	-/-	2, 3, Note 7, 8
	-	125	60	1hp	6K				
	-	250	60	2hp	6K				
155 w/wo ., 0, 1, 2, 5, w/wo Code R174, w/wo suffix RMTE (e)									
	20	125-250	60	GP	6K	105	2/1	-/-	2, 3, Note 7, 8
	-	125	60	1hp	6K				
	-	250	60	2hp	6K				
155 w/wo ., 0, 1, 2, 5, w/wo Code R38, w/wo suffix RMTE (c)									
	16	125-250	60	GP	6K	105	1/1	PP/-	2, 3, Note 7, 8
	-	125	60	1hp	6K				
	-	250	60	2hp	6K				
155 w/wo ., 0, 1, 2, 5, w/wo Code R38, w/wo suffix RMTE (e)									
	16	125-250	60	GP	6K	105	2/1	PP/-	2, 3, Note 7, 8
	-	125	60	1hp	6K				
	-	250	60	2hp	6K				
1570 w/wo Code R130	11	125	60	GP	6K	80	1/1	-/-	2
	0.5	125	60	GP	6K				
1576 w/wo Code R130	11	125	60	GP	6K	80	2/1	-/-	2
	0.5	125	60	GP	6K				
158 w/wo 1 w/wo suffix 0000 thru 9999 w/wo Code R215									
	16	125-250	60	GP	6K	65	1/1	-/A	-
	-	250	60	2hp	6K				
	-	-	-	GP	-				
158 w/wo 1 w/wo suffix 0000 thru 9999 w/wo Code R38									
	16	125-250	60	GP	6K	65	1/1	-/A	-

	-	125	60	1hp	6K				
	-	250	60	2hp	6K				
1640 w/wo Code R39 (c)	8	125	60	GP	6K	85	1/1	PP/-	2, 3
	-	125	60	1/6hp	6K				
1640 w/wo Code R39 (e)	8	125	60	GP	6K	85	2/1	PP/-	2, 3
	-	125	60	1/6hp	6K				
1640 w/wo Code R83 (c)	4	250	60	GP	6K	85	1/1	PP/-	2, 3
	-	250	60	1/3hp	6K				
1640 w/wo Code R83 (e)	4	250	60	GP	6K	85	2/1	PP/-	2, 3
	-	250	60	1/3hp	6K				
1642 w/wo Code R40 (c)	8	125	60	GP	6K	85	1/1	PP/-	3
	4	250	60	GP	6K				
	-	125	60	1/6hp	6K				
	-	250	60	1/3hp	6K				
1642 w/wo Code R40 (e)	8	125	60	GP	6K	85	2/1	PP/-	3
	4	250	60	GP	6K				
	-	125	60	1/6hp	6K				
	-	250	60	1/3hp	6K				
1642, w/wo Code R29 (c)	4	250	60	GP	6K	85	1/1	PP/-	3
	8	125	60	GP	6K				
1642, w/wo Code R29 (e)	4	250	60	GP	6K	85	2/1	PP/-	3
	8	125	60	GP	6K				
1656 w/wo Code R50	10	125-250	60	GP	6K	80	1/1	-/-	2
	-	125	60	1/3hp	6K				
	-	250	60	1/2hp	6K				
1656 w/wo Code R73	10	125	60	GP	6K	80	1/1	-/-	2
	-	125	60	1/3hp	6K				
1656 w/wo Code R74	10	250	60	GP	6K	80	1/1	-/-	2
	-	250	60	1/2hp	6K				
1660, 1661 w/wo Code R217 (c)									
	12	125-250	50/60	GP	6K	65	1/1	-/B	-
	-	125	50/60	1/2hp	6K				
1660, 1661 w/wo Code R217 (e)									
	12	125-250	50/60	GP	6K	65	2/1	-/B	-
	-	125	50/60	1/2hp	6K				
1660, 1661 w/wo Code R84 (c)									
	12	125-250	60	1/2hp	6K	65	1/1	-/-	-
1660, 1661 w/wo Code R84 (e)									
	12	125-250	60	1/2hp	6K	65	2/1	-/-	-
1660, 1661 w/wo Code R85 (c)									
	12	125	60	GP	6K	65	1/1	-/-	-
	-	125	60	1/6hp	6K				
1660, 1661 w/wo Code R85 (e)									
	12	125	60	GP	6K	65	2/1	-/-	-
	-	125	60	1/6hp	6K				
1660, 1661 w/wo Code R86 (c)									
	12	250	60	GP	6K	65	1/1	-/-	-
	-	250	60	1/2hp	6K				

	-	125	60	1/6hp	6K				
1660, 1661 w/wo Code R86 (e)									
	12	250	60	GP	6K	65	2/1	-/-	-
	-	250	60	1/2hp	6K				
	-	125	60	1/6hp	6K				
168 w/wo "." 1, 2, 3, 4, 8, 9 w/wo suffix 0000 thru 9999, w/wo Code R81 (c)									
	16	125-250	60	GP	6K	85	1/1	PP/-	-
168 w/wo "." 1, 2, 3, 4, 8, 9 w/wo suffix 0000 thru 9999, w/wo Code R81 (e)									
	16	125-250	60	GP	6K	85	2/1	PP/-	-
168 w/wo "." 6, 7 w/wo suffix 0000 thru 9999, w/wo Code R81 (c)									
	16	125-250	60	GP	6K	60	1/1	PP/-	-
168 w/wo "." 6, 7 w/wo suffix 0000 thru 9999, w/wo Code R81 (e)									
	16	125-250	60	GP	6K	60	2/1	PP/-	-
168 w/wo ".", 1, 2, 3, 4, 7, 8, 9 w/wo suffix 0000 thru 9999, w/wo Code R97 (c)									
	12	125	60	GP	6K	60	1/1	-/-	2
	12	250	60	GP	6K				
	-	125	60	1/2hp	6K				
	-	250	60	1/2hp	6K				
168 w/wo ".", 1, 2, 3, 4, 7, 8, 9 w/wo suffix 0000 thru 9999, w/wo Code R97 (e)									
	12	125	60	GP	6K	60	2/1	-/-	2
	12	250	60	GP	6K				
	-	125	60	1/2hp	6K				
	-	250	60	1/2hp	6K				
168 w/wo ".",2, w/wo suffix 0000 thru 9999, w/wo Code R175									
	5	125	60	L	6K	60	2/1	-/-	2
1703.3402 w/wo Code R166	5	110-250	60	GP	6K	65	4/4	-/-	1, Note B
	0.3	15	DC	-	6K				
	5	110-250	60	GP	6K				
	20	15	DC	-	6K				
1800, 1805 w Code R55 (c)	6	125	60	GP	6K	65	1/1	-/-	2
	-	125	60	1/4hp	6K				
1800, 1805 w Code R55 (e)	6	125	60	GP	6K	65	2/1	-/-	2
	-	125	60	1/4hp	6K				
1800, 1805 w Code R73 (c)	10	125	60	GP	6K	65	1/1	-/-	2
	-	125	60	1/3hp	6K				
1800, 1805 w Code R73 (e)	10	125	60	GP	6K	65	2/1	-/-	2
	-	125	60	1/3hp	6K				
1800, 1805 w Code R74 (c)	10	250	60	GP	6K	65	1/1	-/-	2
	-	250	60	1/2hp	6K				
1800, 1805 w Code R74 (e)	10	250	60	GP	6K	65	2/1	-/-	2
	-	250	60	1/2hp	6K				
1800, 1805 w Code R87 (c)	6	250	60	GP	6K	65	1/1	-/-	2
	-	250	60	1/2hp	6K				
1800, 1805 w Code R87 (e)	6	250	60	GP	6K	65	2/1	-/-	2

	-	250	60	1/2hp	6K				
1801 thru 1804 ac w/wo Code R50 (c)									
	10	125-250	60	GP	6K	85	1/1	PP/-	6 (18, 16)
	-	250	60	1/2hp	6K				
	-	125	60	1/3hp	6K				
	3	125	60	L	6K				
	5	125	60	L	6K				
	10	14	DC	T	6K				
	10	125	60	L	6K				
1801 thru 1804 ac w/wo Code R50 (d)									
	10	125-250	60	GP	6K	85	1/2	PP/-	6 (18, 16)
	-	250	60	1/2hp	6K				
	-	125	60	1/3hp	6K				
	3	125	60	L	6K				
	5	125	60	L	6K				
	10	14	DC	T	6K				
	10	125	60	L	6K				
1801 thru 1804 ac w/wo Code R50 (e)									
	10	125-250	60	GP	6K	85	2/1	PP/-	6 (18, 16)
	-	250	60	1/2hp	6K				
	-	125	60	1/3hp	6K				
	3	125	60	L	6K				
	5	125	60	L	6K				
	10	14	DC	T	6K				
	10	125	60	L	6K				
1801 thru 1804 ac w/wo Code R50 (f)									
	10	125-250	60	GP	6K	85	2/2	PP/-	6 (18, 16)
	-	250	60	1/2hp	6K				
	-	125	60	1/3hp	6K				
	3	125	60	L	6K				
	5	125	60	L	6K				
	10	14	DC	T	6K				
	10	125	60	L	6K				
1801 w/wo Code R106 (c)	10	14	60	T	6K	85	1/1	PP/-	6 (16,18)
1801 w/wo Code R106 (d)	10	14	60	T	6K	85	1/2	PP/-	6 (16,18)
1801, 1802 w/wo Code R114 (c)									
	14	125-250	60	GP	6K	85	1/1	PP/-	6 (16, 18)
	-	125	60	3/4hp	6K				
	-	250	60	1-1/2hp	6K				
1801, 1802 w/wo Code R114 (e)									
	14	125-250	60	GP	6K	85	2/1	PP/-	6 (16, 18)
	-	125	60	3/4hp	6K				
	-	250	60	1-1/2hp	6K				
1801, 1802 w/wo Code R149 (c)									
	15	250	60	GP	6K	85	1/1	-/-	6 (16,18)
	-	125	60	3/4hp	6K				
	-	250	60	1-1/2hp	6K				
1801, 1802 w/wo Code R149 (e)									

	15	250	60	GP	6K	85	2/1	-/-	6 (16,18)
	-	125	60	3/4hp	6K				
	-	250	60	1-1/2hp	6K				
1801, 1802 w/wo Code R206 (c)									
	0.03	12	DC	-	6K	65	1/1	-/-	-
1801, 1802 w/wo Code R206 (e)									
	0.03	12	DC	-	6K	65	2/1	-/-	-
1801, 1802, 1821 thru 1824, w/wo Code R30 (c)									
	5	125	60	L	6K	85	1/1	PP/-	6 (18, 16)
	10	125	60	L	6K				
	10	14	DC	T	6K				
	6	125-250	60	GP	6K				
	-	125	60	1/4hp	6K				
	-	250	60	1/2hp	6K				
1801, 1802, 1821 thru 1824, w/wo Code R30 (d)									
	5	125	60	L	6K	85	1/2	PP/-	6 (18, 16)
	10	125	60	L	6K				
	10	14	DC	T	6K				
	6	125-250	60	GP	6K				
	-	125	60	1/4hp	6K				
	-	250	60	1/2hp	6K				
1801, 1802, 1821 thru 1824, w/wo Code R30 (e)									
	5	125	60	L	6K	85	2/1	PP/-	6 (18, 16)
	10	125	60	L	6K				
	10	14	DC	T	6K				
	6	125-250	60	GP	6K				
	-	125	60	1/4hp	6K				
	-	250	60	1/2hp	6K				
1801, 1802, 1821 thru 1824, w/wo Code R30 (f)									
	5	125	60	L	6K	85	2/2	PP/-	6 (18, 16)
	10	125	60	L	6K				
	10	14	DC	T	6K				
	6	125-250	60	GP	6K				
	-	125	60	1/4hp	6K				
	-	250	60	1/2hp	6K				
1801, 1803 w/wo Code R30 (c)									
	6	125-250	60	GP	6K	65	1/1	-/-	-
	-	250	60	1/2hp	6K				
	-	125	60	1/4hp	6K				
	5	125	60	L	6K				
	10	125	60	L	6K				
	10	14	DC	T	6K				
1801, 1803 w/wo Code R30 (d)									
	6	125-250	60	GP	6K	65	1/2	-/-	-
	-	250	60	1/2hp	6K				
	-	125	60	1/4hp	6K				
	5	125	60	L	6K				
	10	125	60	L	6K				

	10	14	DC	T	6K				
1801, 1803 w/wo Code R52 (c)									
	6	125	60	GP	6K	65	1/1	-/-	-
	4	250	60	GP	6K				
	-	125-250	60	1/10hp	6K				
1801, 1803 w/wo Code R52 (d)									
	6	125	60	GP	6K	65	1/2	-/-	-
	4	250	60	GP	6K				
	-	125-250	60	1/10hp	6K				
1802, 1804 w/wo Code R30 (c)									
	6	125-250	60	GP	6K	65	1/1	PP/-	-
	-	250	60	1/2hp	6K				
	-	125	60	1/4hp	6K				
	5	125	60	L	6K				
	10	125	60	L	6K				
	10	14	DC	T	6K				
1802, 1804 w/wo Code R30 (d)									
	6	125-250	60	GP	6K	65	1/2	PP/-	-
	-	250	60	1/2hp	6K				
	-	125	60	1/4hp	6K				
	5	125	60	L	6K				
	10	125	60	L	6K				
	10	14	DC	T	6K				
1802, 1804 w/wo Code R52 (c)									
	6	125	60	GP	6K	65	1/1	PP/-	-
	4	250	60	GP	6K				
	-	125-250	60	1/10hp	6K				
1802, 1804 w/wo Code R52 (d)									
	6	125	60	GP	6K	65	1/2	PP/-	-
	4	250	60	GP	6K				
	-	125-250	60	1/10hp	6K				
1802, 1804 w/wo Code R52 (e)									
	6	125	60	GP	6K	65	2/1	PP/-	-
	4	250	60	GP	6K				
	-	125-250	60	1/10hp	6K				
1802, 1804 w/wo Code R52 (f)									
	6	125	60	GP	6K	65	2/2	PP/-	-
	4	250	60	GP	6K				
	-	125-250	60	1/10hp	6K				
1805 w/wo Code R149	15	250	60	GP	6K	65	2/1	-/-	-
	-	125	60	3/4hp	6K				
	-	250	60	1-1/2hp	6K				
1806 w/wo Code R30 (c)	6	125-250	60	GP	6K	85	1/1	-/-	2
	-	250	60	1/2hp	6K				
	-	125	60	1/4hp	6K				
	5	125	60	L	6K				
	10	125	60	L	6K				
	10	14	DC	T	6K				
1806 w/wo Code R30 (d)	6	125-250	60	GP	6K	85	1/2	-/-	2

	-	250	60	1/2hp	6K				
	-	125	60	1/4hp	6K				
	5	125	60	L	6K				
	10	125	60	L	6K				
	10	14	DC	T	6K				
1806 w/wo Code R30 (e)	6	125-250	60	GP	6K	85	2/1	-/-	2
	-	250	60	1/2hp	6K				
	-	125	60	1/4hp	6K				
	5	125	60	L	6K				
	10	125	60	L	6K				
	10	14	DC	T	6K				
1806 w/wo Code R30 (f)	6	125-250	60	GP	6K	85	2/2	-/-	2
	-	250	60	1/2hp	6K				
	-	125	60	1/4hp	6K				
	5	125	60	L	6K				
	10	125	60	L	6K				
	10	14	DC	T	6K				
1806 w/wo Code R50 (c)	10	125-250	60	GP	6K	85	1/1	-/-	2
	-	250	60	1/2hp	6K				
	-	125	60	1/3hp	6K				
	3	125	60	L	6K				
	5	125	60	L	6K				
	10	14	DC	T	6K				
1806 w/wo Code R50 (d)	10	125-250	60	GP	6K	85	1/2	-/-	2
	-	250	60	1/2hp	6K				
	-	125	60	1/3hp	6K				
	3	125	60	L	6K				
	5	125	60	L	6K				
	10	14	DC	T	6K				
1806 w/wo Code R50 (e)	10	125-250	60	GP	6K	85	2/1	-/-	2
	-	250	60	1/2hp	6K				
	-	125	60	1/3hp	6K				
	3	125	60	L	6K				
	5	125	60	L	6K				
	10	14	DC	T	6K				
1806 w/wo Code R50 (f)	10	125-250	60	GP	6K	85	2/2	-/-	2
	-	250	60	1/2hp	6K				
	-	125	60	1/3hp	6K				
	3	125	60	L	6K				
	5	125	60	L	6K				
	10	14	DC	T	6K				
1806 w/wo Code R52 (c)	6	125	60	GP	6K	85	1/1	-/-	2
	4	250	60	GP	6K				
	-	125-250	60	1/10hp	6K				
1806 w/wo Code R52 (d)	6	125	60	GP	6K	85	1/2	-/-	2
	4	250	60	GP	6K				
	-	125-250	60	1/10hp	6K				
1806 w/wo Code R52 (e)	6	125	60	GP	6K	85	2/1	-/-	2
	4	250	60	GP	6K				

	-	125-250	60	1/10hp	6K				
1806 w/wo Code R52 (f)	6	125	60	GP	6K	85	2/2	-/-	2
	4	250	60	GP	6K				
	-	125-250	60	1/10hp	6K				
1808, 1818, w/wo suffix, w/wo Code R58									
	6	125-250	60	GP	6K	65	1/2	-/-	-
	-	125-250	60	1/8hp	6K				
1809, 1819, 1839 w/wo Code R58 (g)									
	6	125-250	60	GP	6K	65	1/3	-/-	-
	-	125-250	60	1/8hp	6K				
1809, 1819, 1839 w/wo Code R58 (h)									
	6	125-250	60	GP	6K	65	2/3	-/-	-
	-	125-250	60	1/8hp	6K				
1809, 1841, 1843 w/wo Code R58 (g)									
	6	125-250	60	GP	6K	85	1/3	-/-	-
	-	125-250	60	1/8hp	6K				
1809, 1841, 1843 w/wo Code R58 (h)									
	6	125-250	60	GP	6K	85	2/3	-/-	-
	-	125-250	60	1/8hp	6K				
1811, 1812, 1813, 1814 w/wo Code R30 (c)									
	6	125-250	60	GP	6K	65	1/1	-/-	-
	-	250	60	1/2hp	6K				
	-	125	60	1/4hp	6K				
	5	125	60	L	6K				
	10	125	60	L	6K				
	5	14	DC	T	6K				
1811, 1812, 1813, 1814 w/wo Code R30 (d)									
	6	125-250	60	GP	6K	65	1/2	-/-	-
	-	250	60	1/2hp	6K				
	-	125	60	1/4hp	6K				
	5	125	60	L	6K				
	10	125	60	L	6K				
	5	14	DC	T	6K				
1811, 1812, 1813, 1814 w/wo Code R30 (e)									
	6	125-250	60	GP	6K	65	2/1	-/-	-
	-	250	60	1/2hp	6K				
	-	125	60	1/4hp	6K				
	5	125	60	L	6K				
	10	125	60	L	6K				
	5	14	DC	T	6K				
1811, 1812, 1813, 1814 w/wo Code R30 (f)									
	6	125-250	60	GP	6K	65	2/2	-/-	-
	-	250	60	1/2hp	6K				
	-	125	60	1/4hp	6K				
	5	125	60	L	6K				
	10	125	60	L	6K				
	5	14	DC	T	6K				
1811, 1812, 1813, 1814 w/wo Code R50 (c)									
	10	125-250	60	GP	6K	65	1/1	-/-	-

	-	250	60	1/2hp	6K				
	-	125	60	1/3hp	6K				
	3	125	60	L	6K				
	5	125	60	L	6K				
	10	14	DC	T	6K				
1811, 1812, 1813, 1814 w/wo Code R50 (d)									
	10	125-250	60	GP	6K	65	1/2	-/-	-
	-	250	60	1/2hp	6K				
	-	125	60	1/3hp	6K				
	3	125	60	L	6K				
	5	125	60	L	6K				
	10	14	DC	T	6K				
1811, 1812, 1813, 1814 w/wo Code R50 (e)									
	10	125-250	60	GP	6K	65	2/1	-/-	-
	-	250	60	1/2hp	6K				
	-	125	60	1/3hp	6K				
	3	125	60	L	6K				
	5	125	60	L	6K				
	10	14	DC	T	6K				
1811, 1812, 1813, 1814 w/wo Code R50 (f)									
	10	125-250	60	GP	6K	65	2/2	-/-	-
	-	250	60	1/2hp	6K				
	-	125	60	1/3hp	6K				
	3	125	60	L	6K				
	5	125	60	L	6K				
	10	14	DC	T	6K				
1811, 1813 w/wo Code R52 (c)									
	6	125	60	GP	6K	65	1/1	-/-	-
	4	250	60	GP	6K				
	-	125-250	60	1/10hp	6K				
1811, 1813 w/wo Code R52 (d)									
	6	125	60	GP	6K	65	1/2	-/-	-
	4	250	60	GP	6K				
	-	125-250	60	1/10hp	6K				
1811, 1813 w/wo Code R52 (e)									
	6	125	60	GP	6K	65	2/1	-/-	-
	4	250	60	GP	6K				
	-	125-250	60	1/10hp	6K				
1811, 1813 w/wo Code R52 (f)									
	6	125	60	GP	6K	65	2/2	-/-	-
	4	250	60	GP	6K				
	-	125-250	60	1/10hp	6K				
1830, 1835 w/wo Code R142 (c)									
	16	250	60	GP	6K	65	M/1	PP/-	2, 6 (16,18), Note 2
	-	250	60	1hp	6K				
1830, 1835 w/wo Code R142 (e)									
	16	250	60	GP	6K	65	2/1	PP/-	2, 6 (16,18), Note 2
	-	250	60	1hp	6K				

1830, 1835 w/wo Code R143 (c)									
	16	125	60	GP	6K	65	1/1	PP/-	2, 6 (16,18), Note 2
	-	125	60	1/3hp	6K				
1830, 1835 w/wo Code R143 (e)									
	16	125	60	GP	6K	65	2/1	PP/-	2, 6 (16,18), Note 2
	-	125	60	1/3hp	6K				
1830, 1835 w/wo Code R55 (c)									
	6	125	60	GP	6K	65	1/1	PP/-	-
	-	125	60	1/4hp	6K				
1830, 1835 w/wo Code R55 (e)									
	6	125	60	GP	6K	65	2/1	PP/-	-
	-	125	60	1/4hp	6K				
1830, 1835 w/wo Code R87 (c)									
	6	250	60	GP	6K	65	1/1	PP/-	2, 6 (16,18), Note 2
	-	250	60	1/2hp	6K				
1830, 1835 w/wo Code R87 (e)									
	6	250	60	GP	6K	65	2/1	PP/-	2, 6 (16,18), Note 2
	-	250	60	1/2hp	6K				
1831 thru 1834, 1841, 1843 ac, w/wo Code R30 (c)									
	5	125	60	L	6K	85	1/1	PP/-	6 (18, 16)
	10	125	60	L	6K				
	10	14	DC	T	6K				
	6	125-250	60	GP	6K				
	-	125	60	1/4hp	6K				
	-	250	60	1/2hp	6K				
1831 thru 1834, 1841, 1843 ac, w/wo Code R30 (d)									
	5	125	60	L	6K	85	1/2	PP/-	6 (18, 16)
	10	125	60	L	6K				
	10	14	DC	T	6K				
	6	125-250	60	GP	6K				
	-	125	60	1/4hp	6K				
	-	250	60	1/2hp	6K				
1831 thru 1834, 1841, 1843 ac, w/wo Code R30 (e)									
	5	125	60	L	6K	85	2/1	PP/-	6 (18, 16)
	10	125	60	L	6K				
	10	14	DC	T	6K				
	6	125-250	60	GP	6K				
	-	125	60	1/4hp	6K				
	-	250	60	1/2hp	6K				
1831 thru 1834, 1841, 1843 ac, w/wo Code R30 (f)									
	5	125	60	L	6K	85	2/2	PP/-	6 (18, 16)
	10	125	60	L	6K				
	10	14	DC	T	6K				
	6	125-250	60	GP	6K				
	-	125	60	1/4hp	6K				
	-	250	60	1/2hp	6K				

1831, 1832 w/wo Code R81 (c)									
	16	125-250	60	GP	6K	85	1/1	PP/-	6 (16,18)
	5	125	60	L	6K				
	10	125	60	L	6K				
1831, 1832 w/wo Code R81 (e)									
	16	125-250	60	GP	6K	85	2/1	PP/-	6 (16,18)
	5	125	60	L	6K				
	10	125	60	L	6K				
1831, 1832, 1833, 1834 w/wo Code R11 (c)									
	16	125-250	60	GP	6K	85	1/1	PP/-	6 (16,18)
	5	125	60	L	6K				
	10	125	60	L	6K				
	-	125	60	1/3hp	6K				
	-	250	60	1hp	6K				
1831, 1832, 1833, 1834 w/wo Code R11 (e)									
	16	125-250	60	GP	6K	85	2/1	PP/-	6 (16,18)
	5	125	60	L	6K				
	10	125	60	L	6K				
	-	125	60	1/3hp	6K				
	-	250	60	1hp	6K				
1831, 1832, 1833, 1834 w/wo Code R52 (c)									
	6	125	60	GP	6K	85	1/1	PP/-	6 (16,18)
	4	125	60	GP	6K				
	-	125-250	60	1/10hp	6K				
1831, 1832, 1833, 1834 w/wo Code R52 (d)									
	6	125	60	GP	6K	85	1/2	PP/-	6 (16,18)
	4	125	60	GP	6K				
	-	125-250	60	1/10hp	6K				
1831, 1832, 1833, 1834 w/wo Code R52 (e)									
	6	125	60	GP	6K	85	2/1	PP/-	6 (16,18)
	4	125	60	GP	6K				
	-	125-250	60	1/10hp	6K				
1831, 1832, 1833, 1834 w/wo Code R52 (f)									
	6	125	60	GP	6K	85	2/2	PP/-	6 (16,18)
	4	125	60	GP	6K				
	-	125-250	60	1/10hp	6K				
1833, 1834 w/wo Code R70 (c)									
	16	125-250	60	GP	6K	85	1/1	PP/-	-
	-	125	60	1/4hp	6K				
	-	250	60	1/2hp	6K				
1833, 1834 w/wo Code R70 (d)									
	16	125-250	60	GP	6K	85	1/2	PP/-	-
	-	125	60	1/4hp	6K				
	-	250	60	1/2hp	6K				
1833, 1834 w/wo Code R70 (e)									
	16	125-250	60	GP	6K	85	2/1	PP/-	-
	-	125	60	1/4hp	6K				
	-	250	60	1/2hp	6K				
1833, 1834 w/wo Code R70 (f)									

	16	125-250	60	GP	6K	85	2/2	PP/-	-
	-	125	60	1/4hp	6K				
	-	250	60	1/2hp	6K				
1838 w/wo Code R105	12.5	125-250	60	GP	6K	65	1/2	-/-	Note 4
	-	125	60	1/8hp	6K				
	-	250	60	1/4hp	6K				
1838 w/wo Code R135	16	125-250	60	GP	6K	65	1/2	-/-	Note 4
	-	125	60	1/3hp	6K				
	-	250	60	1/2hp	6K				
1838 w/wo Code R58	6	125-250	60	GP	6K	65	1/2	-/-	Note 4
	-	125-250	60	1/8hp	6K				
1838 w/wo Code R88	10	125-250	60	GP	6K	65	1/2	-/-	Note 4
	-	125	60	1/8hp	6K				
	-	250	60	1/4hp	6K				
1839 w/wo Code R135 (g)	16	125-250	60	GP	6K	65	1/3	-/-	-
	-	125	60	1/3hp	6K				
	-	250	60	1/2hp	6K				
1839 w/wo Code R135 (h)	16	125-250	60	GP	6K	65	2/3	-/-	-
	-	125	60	1/3hp	6K				
	-	250	60	1/2hp	6K				
1839 w/wo Code R88 (g)	10	125-250	60	GP	6K	65	1/3	-/-	-
	-	125	60	1/8hp	6K				
	-	250	60	1/4hp	6K				
1839 w/wo Code R88 (h)	10	125-250	60	GP	6K	65	2/3	-/-	-
	-	125	60	1/8hp	6K				
	-	250	60	1/4hp	6K				
1842, 1844 w/wo Code R30 (e)									
	6	125-250	60	GP	6K	65	2/1	-/-	-
	-	125	60	1/4hp	6K				
	-	250	60	1/2hp	6K				
1842, 1844 w/wo Code R30 (f)									
	6	125-250	60	GP	6K	65	2/2	-/-	-
	-	125	60	1/4hp	6K				
	-	250	60	1/2hp	6K				
1842, 1844 w/wo Code R58 (e)									
	6	125-250	60	GP	6K	65	2/1	-/-	-
	-	125-250	60	1/8hp	6K				
1842, 1844 w/wo Code R58 (f)									
	6	125-250	60	GP	6K	65	2/2	-/-	-
	-	125-250	60	1/8hp	6K				
1852 w/wo Code R52 (c)	6	125	60	GP	6K	65	1/1	PP/-	-
	4	250	60	GP	6K				
	-	125-250	60	1/10hp	6K				
1852 w/wo Code R52 (e)	6	125	60	GP	6K	65	2/1	PP/-	-
	4	250	60	GP	6K				
	-	125-250	60	1/10hp	6K				
1855 w/wo Code R53 (c)	6	125	60	GP	6K	65	1/1	PP/-	2
	-	125	60	1/10hp	6K				

1855 w/wo Code R53 (e)	6	125	60	GP	6K	65	2/1	PP/-	2
	-	125	60	1/10hp	6K				
1855 w/wo Code R69 (c)	4	250	60	GP	6K	65	1/1	PP/-	2
	-	250	60	1/10hp	6K				
1855 w/wo Code R69 (e)	4	250	60	GP	6K	65	2/1	PP/-	2
	-	250	60	1/10hp	6K				
1858 w/wo Code R138 (c)	12	125-250	60	GP	6K	85	1/1	PP/-	-
	-	125	60	1/3hp	6K				
	-	250	60	1/2hp	6K				
1858 w/wo Code R138 (e)	12	125-250	60	GP	6K	85	2/1	PP/-	-
	-	125	60	1/3hp	6K				
	-	250	60	1/2hp	6K				
1881 w/wo Code R106	10	14	DC	T	6K	85	1/1	-/-	-
1881 w/wo Code R114	14	125-250	60	GP	6K	85	1/1	-/-	-
	-	125	60	3/4hp	6K				
	-	250	60	1-1/2hp	6K				
1881 w/wo Code R149	15	250	60	GP	6K	85	1/1	-/-	-
	-	125	60	3/4hp	6K				
	-	250	60	1-1/2hp	6K				
1881 w/wo Code R30	6	125-250	60	GP	6K	85	1/1	-/-	-
	-	250	60	1/2hp	6K				
	-	125	60	1/4hp	6K				
	5	125	60	L	6K				
	10	125	60	L	6K				
	10	14	DC	T	6K				
1881 w/wo Code R50	10	120-250	60	GP	6K	85	1/1	-/-	-
	-	250	60	1/2hp	6K				
	-	125	60	1/3hp	6K				
	3	125	60	L	6K				
	5	125	60	L	6K				
	10	14	DC	T	6K				
	10	125	60	L	6K				
1881 w/wo Code R52	6	125	60	GP	6K	85	1/1	-/-	-
	4	250	60	GP	6K				
	-	125-250	60	1/10hp	6K				
1883 w/wo Code R30	6	125-250	60	GP	6K	85	1/2	-/-	-
	-	250	60	1/2hp	6K				
	-	125	60	1/4hp	6K				
	5	125	60	L	6K				
	10	125	60	L	6K				
	10	14	DC	T	6K				
1883 w/wo Code R50	10	120-250	60	GP	6K	85	1/2	-/-	-
	-	250	60	1/2hp	6K				
	-	125	60	1/3hp	6K				
	3	125	60	L	6K				
	5	125	60	L	6K				
	10	14	DC	T	6K				

	10	125	60	L	6K				
1883 w/wo Code R52	6	125	60	GP	6K	85	1/2	-/-	-
	4	250	60	GP	6K				
	-	125-250	60	1/10hp	6K				
1891, 1591 w/wo Code R52	6	125	60	GP	6K	85	1/1	PP/-	-
	4	250	60	GP	6K				
	-	125-250	60	1/10hp	6K				
1901, 1911, 1921 w/wo Code R58									
	6	125-250	60	GP	6K	85	1/1	-/-	-
	-	125-250	60	1/8hp	6K				
193 w/wo 2 w/wo suffix 0000 thru 9999 w/wo Code R11 (e)									
	16	125-250	60	GP	6K	65	2/1	PP/-	-
	-	125	60	1/3hp	6K				
	-	250	60	1hp	6K				
193 w/wo 2 w/wo suffix 0000 thru 9999 w/wo Code R11(c)									
	16	125-250	60	GP	6K	65	1/1	PP/-	-
	-	125	60	1/3hp	6K				
	-	250	60	1hp	6K				
193 w/wo 4 w/wo suffix 0000 thru 9999 w/wo Code R213 (d)									
	14	125-250	60	GP	6K	65	1/2	PP/-	-
	-	125	60	1/3hp	6K				
	-	250	60	1hp	6K				
193 w/wo 4 w/wo suffix 0000 thru 9999 w/wo Code R213 (f)									
	14	125-250	60	GP	6K	65	2/2	PP/-	-
	-	125	60	1/3hp	6K				
	-	250	60	1hp	6K				
193 w/wo 5 w/wo suffix 0000 thru 9999 w/wo Code R11									
	16	125-250	60	GP	6K	65	1/1	PP/-	2, Note 7
	-	125	60	1/3hp	6K				
	-	250	60	1hp	6K				
193 w/wo 5 w/wo suffix 0000 thru 9999 w/wo Code R11 (e)									
	16	125-250	60	GP	6K	65	2/1	PP/-	2, Note 7
	-	125	60	1/3hp	6K				
	-	250	60	1hp	6K				
193 w/wo 9 w/wo suffix 0000 thru 9999 w/wo Code R218									
	4	125	DC	-	6K	65	1/2, 2/2	PP/D1	-
	8	18	DC	-	6K				
2018 w/wo suff .0000 thru .9999									
	12	125-250	60	GP	6K	65	1/1	-/A	-
	-	125-250	60	1/3hp	6K				
	12	25	DC	-	6K				
2022 w/wo Code R92	10	125	60	GP	6K	65	1/1	-/-	5, 6 (16,18)
	6	250	60	GP	6K				
	-	125	60	1/2hp	6K				
	-	250	60	3/4hp	6K				
2069 w/wo suffix .0000 thru .9999 w/wo Code R125									
	15	125	60	GP	6K	65	1/1	-/-	5, 6 (14), 7
2069 w/wo suffix .0000 thru .9999 w/wo Code R168									

	13	125	60	GP	6K	65	1/1	-/-	5, 6 (16/18), 7
2085 w/wo Code R75	8	125	60	GP	6K	65	1/1	-/-	5, 6 (18)
	-	125	60	1/3hp	6K				
2085 w/wo Code R98	6	125	60	GP	6K	65	1/1	-/-	5, 6 (18)
	-	125	60	1/3hp	6K				
2100 w/wo Code R148	10	125	60	GP	6K	65	2/1	-/-	-
2100 w/wo Code R155	12	125	60	GP	6K	65	2/1	-/-	-
2200 w/wo .0000 thru .9999, w/wo Code R114									
	14	125-250	60	GP	6K	65	2/1	-/-	Note 6
	-	125	60	3/4hp	6K				
	-	250	60	1-1/2hp	6K				
2200 w/wo .0000 thru .9999, w/wo Code R37									
	20	125-250	60	GP	6K	65	2/1	-/-	Note 6
	-	125	60	1-1/2hp	6K				
	-	250	60	2hp	6K				
2200 w/wo .0000 thru .9999, w/wo Code R38									
	16	125-250	60	GP	6K	65	2/1	-/-	Note 6
	-	125	60	1hp	6K				
	-	250	60	2hp	6K				
2500 w/wo Code R148	10	125	60	GP	6K	65	1/1	-/-	5
2500 w/wo Code R154	6.5	125	60	GP	6K	65	1/1	-/-	5
2500 w/wo Code R183	8.5	125	60	GP	6K	65	1/1	-/-	5
2500 w/wo Code R23	6	125	60	GP	6K	65	1/1	-/-	5
2500 w/wo Code R25	8	125	60	GP	6K	65	1/1	-/-	5
2500 w/wo Code R63	8.5	125	60	GP	6K	65	1/1	-/-	5
2504 w/wo Code R73	10	125	60	GP	6K	65	1/1	-/-	5, 6 (16)
	-	125	60	1/3hp	6K				
2505, 2506 w/wo Code R148	10	125	60	GP	6K	65	1/1	-/-	5, 6(16), 10
	8	125	60	GP	6K				
2505, 2506 w/wo Code R23	6	125	60	GP	6K	65	1/1	-/-	5
2505, 2506, 2507 w/wo Code R202									
	7	125	60	GP	6K	65	1/1	-/-	5
2505, 2506, 2507 w/wo Code R25									
	8	125	60	GP	6K	65	1/1	-/-	5
2507 w/wo Code R148	10	125	60	GP	6K	65	1/1	-/-	5
2507 w/wo Code R23	6	125	60	GP	6K	65	1/1	-/-	5
2600 w/wo Code R127	15.1	125-250	50/60	GP	6K	65	2/1	-/-	7
2600 w/wo Code R128	18	125	50/60	GP	6K	65	1/1	-/-	5, 7
2600 w/wo Code R141	15.1	125	50/60	GP	6K	65	2/1	-/-	5
2600 w/wo Code R181	27.5	24	DC	-	6K	65	1/1	-/-	5
2601 w/wo Code R23	6	125	60	GP	6K	65	1/1	-/-	5
2602 w/wo Code R63	16	125	60	GP	6K	65	2/1	-/-	5
2610 w/wo Code R27	20	125	60	GP	6K	65	1/1	-/-	5
2700 w/wo Code R140	25	14.4	DC	-	6K	60	1/1	-/-	Note A2
2700 w/wo Code R157	25	24	DC	-	6K	60	1/1	-/-	Note A2
2700, 2702 w/wo Code R133	25	2.4-15	DC	-	6K	60	1/1	-/-	Note A2
	25	18	DC	-	6K	60	1/1	-/-	5, Note A2

2700, 2702 w/wo Code R146									
2701 w/wo Code R140	25	14.4	DC	-	6K	85	1/1	-/-	5, Note A2
2701 w/wo Code R157	25	24	DC	-	6K	60	1/1	-/-	5, Note A2
2701, 2703 w/wo Code R146	25	18	DC	-	6K	60	1/1	-/-	5, Note A2
2702 w/wo Code R140	25	14.4	DC	-	6K	85	1/1	-/-	Note A2
2702, 2704 w/wo Code R173	30	36	DC	-	6K	65	1/1	-/-	Note A2
2703 w/wo Code R140	25	14.4	DC	-	6K	85	1/1	-/-	5, Note A2
2703 w/wo Code R157	25	24	DC	-	6K	60	1/1	-/-	5, Note A2
2703 w/wo Code R160	20	7.2-18	DC	-	6K	65	1/1	-/-	5, Note A2
2703 w/wo Code R179	20	24	DC	-	6K	65	1/1	-/-	5, Note A2
2705 w/wo Code R140	25	14.4	DC	-	6K	60	1/1	-/-	5, 9, Note A2
2705 w/wo Code R146	25	18	DC	-	6K	60	1/1	-/-	5, 9, Note A2
2705 w/wo Code R157	25	24	DC	-	6K	65	1/1	-/-	5, 8, 9, Note A2
2707 w/wo Code R160	20	7.2-18	DC	-	6K	65	1/1	-/-	5, 8, 9, Note A2
2707 w/wo Code R179	20	24	DC	-	6K	65	1/1	-/-	5, 8, 9, Note A2
2709 w/wo Code R156	25	12-36	DC	-	6K	60	1/1	-/-	5, 9, Note A2
271 w/wo 5 or 7 w/wo suffix 0000 thru 9999 w/wo code 212, or 2765 w/wo suffix 0000 thru 9999 w/wo code 212									
	20.1	7.2-24	DC	R	6K	65	1/1	-/A	Note A2
271 w/wo 5 or 7, or 276 w/wo 5, w/wo suffix 0000 thru 9999 w/wo code 198 or Code 146									
	25	12-24	DC	-	6K	65	1/1	-/-	5, Note A2
	25	18	DC	-	6K				
271 w/wo 5 or 7, or 276 w/wo 5, w/wo suffix 0000 thru 9999 w/wo Code R198 or Code R146									
	25	12-24	DC	-	6K	65	1/1	-/-	5, Note A2
	25	18	DC	-	6K				
2711 w/wo Code R157	25	24	DC	-	6K	65	1/1	-/-	5, 8, 9, Note A2
2711 w/wo Code R162	25	7.2-18	DC	-	6K	65	1/1	-/-	5, 8, 9, Note A2
2711 w/wo Code R196	25	7.2-20	DC	-	6K	65	1/1	-/-	Note A2
2711 w/wo Code R210	10	4.5-15	DC	-	6K	65	1/1	-/-	5, 8, Note A2
2711 w/wo suff, Code R211	20.1	7.2-14.4	DC	-	6K	65	1/1	-/A	5,Note A2
2711 w/wo suff, Code R212	20.1	7.2-24	DC	-	6K	65	1/1	-/A	5, 8, Note A2
2711 w/wo suff, Code R216	11	7.2-18	DC	-	6K	65	1/1	-/A	5, 8, 10, Note A2
2711 w/wo suff, Code R220	20.1	36	DC	R	6K	65	1/1	-/A	5, 8, 9, Note A2
2713 w/wo Code R157	25	24	DC	-	6K	65	1/1	-/-	5, 8, 9, Note A2
2713 w/wo Code R204	15.1	20.4	DC	-	6K	65	1/1	-/-	5, 8, 9, Note A2
2716 w/wo Code R205	20	36	DC	-	6K	65	1/1	-/-	Note A2
2716 w/wo Code R221	28	36	DC	R	6K	65	1/1	-/A	Note A2
2725 w/wo Code R198	25	12-24	DC	-	6K	65	1/1	-/-	5, 9, Note A2
2725 w/wo Code R203	22	12-24	DC	-	6K	65	1/1	-/-	5, 9, Note A2
2725 w/wo suff, Code R212	20.1	7.2-24	DC	-	6K	65	1/1	-/A	5, 8, Note A2
2731 w/wo Code R196	25	7.2-20	DC	-	6K	65	1/1	-/-	Note A2
2731 w/wo Code R201	20	7.2-20	DC	-	6K	65	1/1	-/-	5, 8, 9, Note A2
2731 w/wo Code R204	15.1	20.4	DC	-	6K	65	1/1	-/-	5, 8, 9, Note A2
2755 w/wo Code R207	18	9.6-18	DC	-	6K	65	1/1	-/-	5, 8, 9, Note A2
4021 w/wo Code R48, w/wo suffix .0000 thru .9999									

	10	125	60	GP	6K	50	2/2	-/-	Note 1
	5	250	60	GP	6K				
5000 w/wo suffix 0000 thru 9999, w/wo rating Code R3, f/b 1 thru 999									
	4	125	60	GP	6K	65	1/1	-/-	-
	2	250	60	GP	6K				
	-	125-250	60	1/10hp	6K				
61 f/b 00 thru 99, ww/o P, B or 0/0									
	15	24	DC	R	6K	50	1/1	-/-	7, Notes 3,6,9,10
Steering Electronic Unit Cat. No. 2074									
	-	-	-	GP	-	-	-	-/-	5
Torque Adjustment Unit Cat. No. 2075									
	-	-	-	GP	-	-	-	-/-	5

(a) - Temperature is 85 C for suffix N-N

(b) - Temperature is 105 C for suffix T105

(c) - These switches are SPST switches

(d) - These switches are SPDT switches

(e) - These switches are DPST switches

(f) - These switches are DPDT switches

(g) - These switches are SPTT switches

(h) - These switches are DPTT switches

*(a) - UL61058-1 - This is a tool switch with mechanical contacts and optional internal potentiometer, it does not contain a Solid State Switching device (tested mechanical only).

*(b) - UL61058-1 - This is a tool switch with mechanical contacts werial and parallel to the Solid State Switching Devce (SSD). Tested mechanical and electronically. Endurance was tested with simulated load, Heating test for the SSD was conducted based on the declared thermal current.

*(c) - UL61058-1 - This is a tool switch with mechanical contacts werial to the solid state.

*D1 - UL61058-1 - Switches with momentary contact.

*E1 - UL61058-1 - The declared thermal current is 19A.

*E2 - UL61058-1 - Heating Test for other parts has only been conducted for a duty cycle S3 with N/R=N/R=0.65, where N-13 minutes and R=20 minutes is.

*G3 - UL61058-1 - IPX7 testing was compelted on the complete switch without an end product enclosure. The switch gasket (seal) to the end product enclosure is evaluated in the end product testing.

*Noe B4 - UL61058-1 - The tests wre conducted with wire size 16AWG, stranded only.

*Note 4 - UL61058-1 - the solder type terminal has evaluated the solerability of 260C.

*Note A - UL61058-1 - When mounted in accordance with the manufacturers instruction, this switch get a protection degree of IP40.

*Note A1 - UL61058-1 - These switches employ an integral potentiometer. The investigation was limited to the switching function of the switch. The insulating materials and spacings of the integral potentiometer should be investigated for compliance with the end-use product standard.

*Note B - UL61058-1 - The tests were conducted with wire size 12AWG only, except the R-M rating. The tests for the R-M rating has been condcted with 1mm2.

*Note B1 - The tests for rating R-M 13(12)A were conducted with wire size 18AWG on load side and 16AWG on line side, stranded only.

*Note B2 - UL61058-1 - The tests were conducted with wire size 18AWG on load side and 16AWG line side, stranded only.

*Note B3 - UL61058-1 - The tests for rating 4<13A were conducted with wire size 18AWG on load side and 16AWG on line side, stranded only.

*Note B5 - UL61058-1 -The tests were conducted with wire size 1mm2, stranded only.

*Note B6 - UL610581 - The tests were conducted with wire size 2.5mm2.

*Note C - UL61058-1 the heating test with the contacts in series to the SSD were tested with the contacts short before bypass the SSD with the declared thermal current. In the end-use application the heating test should be conducted under the declared cooling conditions.

*Note C1 - UL61058-1 - The declared thermal current is 4A.

*Note C2 - UL61058-1 - The declared thermal current is 5.5A.

*Note C3 - UL61058-1 - If provided with a "Unindirectional or Bidirectional Transient Voltage Suppressor Diode" conected to the motor terminals, the function shall be evaluated for compliance with the end-use Standard within the end product.

*Note C4 - Switch 2711.888x has may a customer specific battery terminal and a female connector at the motor wire leads. Both terminals shall be investigated in the end use application.

*Note D10 - UL61058-1 - Change Over Switch type 1202, described in this report can be optional mounted on this switch 1298.

*Note D11 - UL61058-1 - Change Over function has been evaluated for no load switching only. Temperature test has been conducted with 13A as declared under electrical ratings. the change over switch can be mounted as accessory on switches where also declared. The switch has been evaluated for a voltage of 250 Vac and 127 Vac, 50/60 Hz.

*Note D12 - UL61058-1 - Dust ring is optional provided.

*Note D13 - UL61058-1 - Brake contact path to be evaluated in end application.

*Note D14 - UL61058-1 - The soldering terminals were tested for iron soldering only.

*Note D15 - UL61058-1 - The switch was sitched off over the integrated coil at rate of 6 operations/min (5sec=ON, 15sec=OFF).

*Note D16 - UL61058-1 - As the design allows the switches are operted at a rate of: 1sec ON/19sec OFF making: actuated mechanically, braking: actuated by remote function.

*Note D2 - UL61058-1 - The soldering terminals wre tested for solder bath soldering only.

*Note D3 - UL61058-1 - Only appear to switch rated 16A GP, 250 Vac. Heating tests after 6K cycles have been done with wire size AWG No. 12.

*Note D4 - UL61058-1 - Switches with continuous contact.

*Note D5 - UL61058-1 - Only appear to switch 16A resistive, 250 Vac and to 16A GP, 250 Vac. Switches may be provided by a coil to open the switch by an electrical impulse (remote off function). The functionality has not een investigated and shall be evaluated in the end use application.

*Note D6 - UL61058-1 - the wire set was not part of this investigation and shall be investigated in the end use application.

*Note D7 - UL61058-1 - the standard rotating reversing switch has not been investigated for "Making" or "Breaking" current. It is attached to the switch as accessory and has no impact of the switching function. The suitability of the combination must be determined in accordance with the end-product requirements.

*Note D8 - UL61058-1 - The potentiometer has not been evaluated.

*Note D9 - UL61058-1 - Switch is rated 2<13(13). The heating test withthe contacts in series to the SSD were tested withthe contacts short before bypass the SSd with the declared thermal current. In the end use application the heating test should be conducted under the declared cooling conditions. This is a tool switch with mechanical contacts with serial and parallel to the Solid state Switching Device (SSD).

*Note E3 - UL61058-1 - Brak contact path to be evaluated in end application.

*Note F1 - UL61058-1 - These are lighted switches maybe employing a lamp. The lamp life should be evaluated when required by the end-use product Standard.

*Note G1 - UL61058-1 - IP4X for accessible parts and enclosure of the end product enclosure when mounted or installed according to the manufacturers directions. Internal parts were not evaluated for IP ratings and must be considered in the end product.

*Note G2 - UL61058-1 - IP6X testing was completed on the complete switch without an end product enclosure. Under IP Category 1 (pressure difference). The switch gasket (seal) to the end product enclosure is evaluated in the end product testing.

*Note G4 - UL61058-1 - IP67 for complete switch only if provided with integrated potted wires and sealing at actuator side.

*Note G5 - UL61058-1 - IP67 for accessible parts if sealing is provided only at actuator side and switch gasket (seal) to the end product enclosure is evaluated in the end product testing. Internal parts were not evaluated for IP ratings and must be considered in the end product.

*Note G6 - UL61058-1 - The masimum current for these switches with integrated flexible/stranded potted wires with a minimum cross section of AWG20 or 0.5mm2 or 0.5mm2 shall be Imax. 10A and for AWG18 or 0.75mm2 shall be IMax 12A.

*Note H1 - UL61058-1 - The minimum wire temperature for the 16(16) rated switch shall be 130C.

*Note H2 - The optional Potentiometer was not tested with the swicht, it shall be investigated in the end use application.

Note 1 - This switch has been investigated for use only as a voltage selector.

Note 10 - The switch employes quick-connect terminals. They have been evaluated for use with solid and/or solder dipped stranded conductors, No. 10 AWG.

Note 2 - For Cat. Nos. 1830 and 1835, the suitability of the steel spring as a current-carrying part in the pilot light portion of the switch, shall be determined in the end-use.

Note 3 - The reversing switch has not been evaluated and should be investigated for compliance with the end-use product standard.

Note 4 - The quick-connect terminals have been investigated with a suitable female connector attached to No. 12 AWG wire. The suitability of non-Recognized connector or other size wire shall be determined in the end-use application.

Note 5 - This switch is to be used with Marquardt switches Cat. No. 1293 (rated 6 A-125 V ac, 1/6 hp-125 V ac), Cat. No. 1297 (rated 6 A-125 V ac, 1/4 hp-125 V ac, 5 A-250 V ac, 1/2 hp-250 V ac) and Lucerne switches, Cat No. TRM256 (rated 6 A-125 V ac), Cat No. TSCR-256 (rated 6 A-125 V ac). They each employ a built-in interlock at the trigger to prevent making and breaking current.

Note 6 - The screw-down wire binding terminals have not been investigated. The suitability of these terminals shall be determined in the end-use application.

Note 7 - The supply source of the bulb circuit was not evaluated during the investigation of the switch. The suitability of this feature shall be determined in the end-use application.

Note 8 - The performance of the remote actuated version (suffix RMTE) is dependent upon the combination of (1) the length of the extension rod and (2) the distance between the Recognized Component Switch and the remote actuator button. The suitability of this combination should be determined in the end product.

Note A - The switches are not considered relampable.

Note A2 - The function of the Unidirectional or Bidirectional Transient Voltage Suppressor Diode shall be evaluated for compliance with the end-use Standard within the end product.

Note A3 - Switch is rated 2<11(11).

Note B - Type 1703.3402; Each pole has a special rating: 1st pole 5A 110-250Vac, 2nd pole 0.3A 15Vdc, 3rd pole 5A 110-250Vac, 4th pole 20A 15Vdc

Note C5 - Switch 2711.9xxx was tested with AWG14 wires. The leads (AWG26) connected to the PWB assembly and the four pin connector shall be evaluated within the end product.

Note C7 - UL61058-1 - The declared thermal current for RM 10.5(10.5) is 3A.

Note J1 - The switch shall be installed in an end-use product that provides an enclosure and/or insulating barrier over the front and rear switch enclosure surfaces, which meets the requirements for Basic, Reinforced or Double Insulation.

Note J2 - The switch provides only Basic insulation to live parts. The acceptability of user access of Basic insulation shall be considered in the end-use product. After mounting of the switches in end product, additional insulation measures is necessary to ensure the basic insulation between the switch conductors and the metal surface of end product on which the switches are intended to be mounted.

Note J3 - IP testing was completed on the complete switch without an end product enclosure. To insure IP40 the switch terminals to the end product enclosure shall be evaluated in the end-use product testing.

Note J4 - Due to the construction of the switch the on/off time deviated to the required time the endurance test at very slow speed was conducted with 14 seconds on and 14 seconds off.

Marking: Company name or trademark 

, 

, , catalog, model or part number, electrical ratings and the Recognized Component Mark, on the product or on the smallest unit container in which the product is packaged.

Last Updated on 2015-10-23

Questions? Print this page Terms of Use Page Top