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Certificate Record

Customer	Class	File Number
Marquardt GmbH Schlosstrasse 16, Rietheim-Weilheim Germany 78604	6241-10 SWITCHES-Snap - Special Use	016270_0_000

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(Replaces: November 7, 2012)

TO THE REQUIREMENTS OF C22.2 NO 55-M1986, ECN 526:

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0331	R17
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1019	R18, R57
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1806	R30, R50
1807	125Vac, 250Vac
1808	R58, R88
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1832	R30, R81, R52, R11, R70
1833	R30, R70, R52
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2505	R23, R25, R148, R202
2506	R23, R25, R148, R202
2507	R23, R25, R148, R202
2600	R141, R127, R128, R181
2601	R102
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2707	R160, R179
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4024	R48

- Reversing switch, no load break, Type 1201, 8A, 125V ac.
- Pilot light Type 1607, 125V max, 1807 and 1837, 250V ac max.

Notes:

1. Suffix numbers or letters may be added, indicating contact arrangement, type of actuator and mechanical details.
2. The push in terminals of Type 2085 must be used with special wire connectors, which are specified in the manufacturers instruction sheet.
3. Certified as a component where the suitability of the combination is to be determined by CSA International or another NRTL Type 1202 is a reversing type switch, not intended for switching loads, tested for temperature only.
4. Conductors in the final installation of the 80°C ambient rated switches must be rated 110°C minimum.
5. Type 1095 was operated 1000x with load and 5000x without load, this must be evaluated in the end use.
6. Type 2069 was additionally tested, on manufacturers request, according to IEC 61058-1:2000 + A1:2001 for rating 8(8)A - 250 V~, 5E4.

R1	4A 2A	125V ac-dc 250V ac-dc
R2	4A 2A 1/6 hp 1/10 hp	125V ac-dc 250V ac-dc 125V ac 250V ac
R3	4A 2A 1/10 hp	125V ac 250V ac 125-250V ac
R4	6A 3A	125V ac-dc 250V ac-dc
R5	4A	125-250V ac, 1/6 hp
R6	4A 1/6 hp 1/4 hp	125-250V ac 125V ac 250V ac
R9	6A	125-250V ac, 1/4 hp

R10	10A	125-250V ac, 1/2 hp
R11	16A 1/3 hp 1 hp	125-250V ac 125V ac 250V ac
R12	16A 3/4 hp 1-1/2 hp	125-250V ac 125V ac 250V ac
R13	4A 2A 1/4 hp	125V ac-dc 250V ac-dc 125-250V ac
R14	6A 3A 1/4 hp	125V ac 250V ac 125-250V ac
R15	6A 1/3 hp 3/4 hp	125-250V ac 125V ac 250V ac
R16	10A	125V ac, 1-1/2 hp
R17	15A	125V ac, 1-1/2 hp
R18	2A	125-250V ac
R19	16A	125V ac, 1/8 hp
R21	8A 1/6 hp	125-250V ac 125-250V ac
R23 (note 3)	6A	125V ac
R25 (note 4)	8A	125V ac
R27	20A	125V ac
R29	8A 4A	125V ac 250V ac
R30	6A 1/4 hp 1/2 hp	125-250V ac 125V ac 250V ac
R36	6A 6A 1/4 HP	125-250 Vac 48 Vdc 125-250 Vac
R37	20A 1-1/2 hp 2 hp	125-250V ac 125V ac 250V ac
R38	16A 1 hp 2 hp	125/250V ac 125V ac 250V ac
R39	8A	125V ac, 1/16 hp
R40	8A 4A 1/6 hp 1/3 hp	125V ac 250V ac 125V ac 250V ac

R41	8A 4A 1/6 hp	125V ac 250V ac 125-250V ac
R42	10A 3/4 hp 1-1/2 hp	125-250V ac 125V ac 250V ac
R43	20A 10A	125V ac-dc 250V ac
R44	10A	125-250V ac, 1/4hp
R45	10A 6A	125V ac-dc 250V ac-dc
R47	14A	125-250V ac
R48	10A 5A	125V ac 250V ac
R50	10A 1/3 hp 1/2 hp	125-250V ac 125V ac 250V ac
R52	6A 4A 1/10 hp	125V ac 250V ac 125-250V ac
R53	6A	125V ac, 1/10 hp
R54	6A 3A	125V ac-dc 250V ac
R55	6A	125V ac, 1/4 hp
R56	5A	125-250V ac, 1/10 hp
R57	5A	125-250V ac
R58	6A	125-250V ac, 1/8 hp
R61	10A	250V ac, 1/3 hp
R62	16A 10A 1/8 hp 1/3 hp	125V ac 250V ac 125V ac 250V ac
R63	16A	125V ac
R66	16A 8A	125V ac, 1/2 hp 250V ac, 1 hp
R67	5A	125V ac, 1/6 hp
R68	12A 6A 1/6 hp	125V ac 250V ac 125-250V ac
R69	4A	250V ac, 1/10 hp

R70	16A 1/4 hp 1/2 hp	125-250V ac 125V ac 250V ac
R71	16A	125V ac, 1/4 hp
R72	16A	250V ac, 1/2 hp
R73	10A	125V ac, 1/3 hp
R74	10A	250V ac, 1/2 hp
R75	8A	125V ac, 1/3 hp
R76	8A	250V ac, 1/2 hp
R77	8A 1/3 hp 1/2 hp	125-250V ac 125V ac 250V ac
R78	6A	125V ac-dc
R79	6A	125-250V ac, 1/6 hp
R80	20A 10A	125V ac-dc, 1/1 hp 250V ac-dc, 1 hp
R81	16A	125-250V ac
R83	4A	250V ac, 1/3 hp
R84	12A 1/6 hp 1/2 hp	125-250V ac 125V ac 250V ac
R85	12A	125V ac, 1/6 hp
R86	12A	250V ac, 1/2 hp
R87	6A	250V ac, 1/2 hp
R88	10A 1/8 hp 1/4 hp	125-250V ac 125V ac 250V ac
R89	2A	125V ac
R91	20A 10A 1 hp	125V ac-dc, 1-1/2 hp 250V ac-dc 250V ac

R92	10A 6A	125V ac, 1/2 hp 250V ac, 3/4 hp
R93	20A 10A	125V ac-dc 250V ac-dc
R94	2A	125-250V ac, 1/10 hp
R95	16A 1 hp 1-1/2 hp	125-250V ac 125V ac 250V ac
R96	13A 6A	125V ac 250V ac
R97	12A 1/2 hp 1/2 hp	125-250V ac 125V ac 250V ac
R98	6A 1/3 hp	125Vac 125Vac
R100	8A 4A	125V ac, 1/2 hp 250V ac, 3/4 hp
R102 (Note 1)	3A	125V ac, 1/10 hp
R103	12A	125V ac, 1/2 hp
R104	8A 4A	125V ac-dc 250V ac-dc
R105	12.5A	125V ac, 1/8 hp 250V dc, 1/4 hp
R106	10A	14V dc T
R109	16A	125-250V ac, 1/2 hp
R110	15A 1/2 hp 3/4 hp	125-250V ac 125V ac 250V ac
R111 (note 2)	9A	125V ac
R112	10A 1/4 hp 1/2 hp	125-250V ac 125V ac 250V ac
R113	10A	125V ac, 1/4 hp
R114	14A	125-250V ac 125V ac, 3/4 hp 250V ac, 1-1/2 hp
R115	12A 6A	125V ac 250V ac
R116	8A	125-250V ac, 1/4 hp
R122	8A	125V ac, 1/2 hp

R124	12A 8A 6A	125V ac 125V dc 250V ac
R125	15A	125V ac
R126	10.1A	125-250V ac, 1/4 hp
R127	15.1A	125-250V ac
R128	18A	125V ac
R130	11A 0.5A	125V ac 125V ac
R131	16A	28V dc
R132	3A	125-250V ac
R134	6A	125-250V ac 125V ac, 1/10 hp 250V ac, 1/4 hp
R135	16A	125-250V ac 125V ac, 1/3 hp 250V ac, 1/2 hp
R137	20A 10A	125V, 1 1/2 hp 250V ac, 1 hp
R138	12A	125-250V ac 125V ac, 1/3 hp 250V ac, 1/2 hp
R139	14A 8A 8A	125V ac 125V dc 250V ac
R141	15.1A	125V ac
R142	16A	250V ac, 1 hp
R143	16A	125V ac, 1/3 hp
R144	16A 1 hp	125V ac 125V ac
<u>R146</u>	<u>25A</u>	<u>18Vdc</u>
R145	16A 2 hp	250V ac 250V ac
R148	10A	125V ac

R149	15A 3/4A 1-1/2A	125 - 250V ac 125V ac 250V ac
R150 (note 2)	4A	125V ac, 1/3 hp
R151	10A	125V ac
R152	21A 1hp 2hp	125-250V ac 125V ac 250V ac
R153	21A	125-250V ac 125V ac, 0.5 hp 250V, 1.5 hp
R154	6.5A	125V ac
R155	12A	125 Vac
R156 (note 5)	25A	36V dc
R157	25A	24V dc
R163, R177	5 A 20 A	110-250Vac 15 Vdc
R165	10A 1/8 HP 1/3 HP	125-250 Vac 125 Vac 250 Vac
R168	13A	125V ac
R169	22 A 1?/td>	125 Vac/dc 125 Vac/dc
R170	9A	125 Vdc
R171	18A	48 Vdc
R172	15A 1 HP	125V ac/dc 125V ac/dc
R174	20A 1 hp 2 hp	125-250Vac 125Vac 250Vac
R175	5A (L)	125V ac
R176	20A 1/2 hp	125V ac 125V ac
R178	15A 8A	125V ac 250V ac
R133	25A	2.4-15 Vdc
R136	25A	12 Vdc
R140	25A	14.4 Vdc
R146	25A	18 Vdc
R160	20A	7.2-18Vdc
R162	25A	7.2-18 Vdc
R173	30A	36 Vdc
R179	20A	24 Vdc
R181	27,5 A	24 Vdc

R182	12A	125-250V ac
	1/2 hp	125V ac
	1 hp	250V ac
R183	8.5A	125 Vac
R184	16A	125 Vac
	1/6 hp	125 Vac
R185	16A	125 Vac
	1/6 hp	125-250 Vac
R186	3/4 hp	125 Vac
	1 hp	250 Vac
	14A	125-250 Vac
R188	1/4 hp	125 Vac
	1/2 hp	250 Vac
R191	8A	125 Vdc
	1/3 HP	125 Vdc
R192	14A	125 Vac
	3/4 HP	125 Vac
R193	14A	125-250 Vac
	1/3 hp	125 Vac
	3/4 hp	250 Vac
R195	22A	125 Vac
	15A	125Vac/dc
R197	30A	24Vdc
R198	25A	12-24Vdc
R199	10A	125 Vac
	5A	250 Vac
	1/10 HP	125-250 Vac
R196	25A	7.2-24 Vdc
R202	7A	125Vac
R205	20A	30Vdc
R206	30mA	12Vdc
R212	20.1A	7.2-24Vdc

Rating code notes:

- Code rating R102 of speed control switch Type 1297 applies in stationary air. In forced air circulation the rating may be increased to the following max values the switch has been tested for 6A, 1/4 hp, 125V ac.
- Code rating R111 and R150 of speed control switch Type 1298 applies in stationary air, in forced air circulation the rating may be increased to the following maximum values the switch has been tested for 10A, 125V ac, 1/3 hp, R73.
- The rating code R23 and R148 of switch Cat. No. 2500 applies in forced air circulation. In stationary air, the max current is 5A.

4. The rating code R25 and R63 of switch Cat. No. 2500 applies in forced air circulation. In stationary air, the max current is 7A.
5. The rating code R156 of switch Cat. No. 2709 applies in forced air circulation. In stationary air, the max current is 5A.

• Special-Use Switches, Component

Cat. No.	Electrical Rating	Temp. (° C)	POL/THR	PP	ENDURANCE
17 f/b 00 to 99 w/wo 0/0 or P	8(8) A 125Vac	50	1/1	--	50.000
44 f/b 00 to 99 w/wo 0/0 or T	3R(3)A, 125/250 Vac 4R(4)A, 125/250 Vac 6R(6)A, 125/250 Vac 8R(8)A, 125/250 Vac	50	1/1	--	50.000
45 f/b 00 to 99 w/wo 0/0 or T	3R(3)A, 125/250 Vac 4R(4)A, 125/250 Vac 6R(6)A, 125/250 Vac 8R(8)A, 125/250 Vac	50	1/1	--	50.000

• Special-Use Switches, Component, Change-Over Selector

70 f/b 00 to 99	8A, 250 Vac no load switching	50	1/1	--	50.000 mechanical only
71 f/b 00 to 99	8A, 250 Vac no load switching	50	1/1	--	50.000 mechanical only

EXPLANATION OF PRODUCT COVERED TABLE

Abbreviations if used:

f/b - followed by

ww/o - with or without

Res. - Resistive load. 98-100 percent power factor

POL/THR - No. of Poles/No. of Throws. "M" stands for Multi-Pole or Multi-Throw, e.g. 2/M indicates 2 Pole, Multi-Throw.

PP - "PP" stands for Per Pole. PP in this column indicates that each pole is capable of switching the rated current

ENDUR - Endurance Rating

Notes:

- 1 Suffix numbers may be added, indicating contact arrangement, type of actuator and mechanical details.
- 2 Certified as a components for use only where the suitability of the combination is determined by CSA International or another NRTL.
- 3 The Amp value of 3.5 A applies in stationary air for Model 17-..., in forced air circulation the rating may be increased to 8(8) A 125VAC, being the maximum rating the switch has been tested for according C22.2 No 156
- 4 The Amp value of 3.5 A applies in stationary air for Models 44-... and 45-..., in forced air circulation the rating may be increased to 8(8) A 125/250VAC, being the maximum rating the switch has been tested for according C22.2 No. 156
- 5 The Amp value of 3.5 A applies in stationary air for Model 77-..., in forced air circulation the rating may be increased to 8(8) A 125VAC, being the maximum rating the switch has been tested for according C22.2 No 156

TO THE REQUIREMENTS OF CSA STD C22.2 NO 55-M1986 (R2012):

Special-Use Switches, Component

Cat. No.	Electrical Rating	Temp. (°C)	POL/THR	PP	ENDURANCE
1004 w/wo suffix 0000-9999 w/wo Code R5	4 A 125-250 Vac	65	1/1,2	--	6 K
1004 w/wo suffix 0000-9999 w/wo Code R21	8 A 1/6 hp 125-250 Vac 125-250 Vac	65	1/1,2	--	6 K
1004 w/wo suffix 0000-9999 w/wo Code R109	16 A 1/2 hp 125-250 Vac 125-250 Vac	65	1/1,2	--	6 K
Series 1005	1hp 125Vac	65	1/1,2	--	30K
1005 w/wo suffix 0000-9999 w/wo Code R6	4 A 1/6 hp 1/4 hp 125-250 Vac 125 Vac 250 Vac	65	1/1,2	--	6 K
1005 w/wo suffix 0000-9999 w/wo Code R9	6 A 1/4 hp 125-250 Vac 125-250 Vac	65	1/1,2	--	6 K
1005 w/wo suffix 0000-9999 w/wo Code R10	10 A 1/2 hp 125-250 Vac 125/250 Vac	65	1/1,2	--	6 K
1005 w/wo suffix 0000-9999 w/wo Code R36	6 A 6A 1/4 hp 125-250 Vac 48 Vdc 125/250 Vac	65	1/1,2	--	6 K
1005 w/wo suffix 0000-9999 w/wo Code R38	16 A 1 hp 2 hp 125 Vac 125 Vac 250 Vac	65	1/1,2	--	6 K
1005 w/wo suffix 0000-9999 w/wo Code R44	10 A 1/4 hp 125-250 Vac 125-250 Vac	65	1/1,2	--	6 K
1005 w/wo suffix 0000-9999 w/wo Code R109	16 A 1/2 hp 125-250 Vac 125-250 Vac	65	1/1,2	--	6 K
1005 w/wo suffix 0000-9999 w/wo Code R152	21 A 1 hp 2 hp 125-250 Vac 125 Vac 250 Vac	65	1/1,2	--	6 K
1005 w/wo suffix 0000-9999 w/wo Code R171	18 A 18 Vdc	60	1/1,2	--	6 K
1006 w/wo suffix 0000-9999 w/wo Code R6	4 A 1/6 hp 1/4 hp 125-250 Vac 125 Vac 250 Vac	65	1/1,2	--	6 K
1006 w/wo suffix 0000-9999 w/wo Code R9	6 A 1/4 hp 125-250 Vac 125-250 Vac	65	1/1,2	--	6 K
1006 w/wo suffix 0000-9999 w/wo Code R10	10 A 1/2 hp 125-250 Vac 125/250 Vac	65	1/1,2	--	6 K

1006 w/wo suffix 0000-9999 w/wo Code R36	6 A	125-250 Vac	65	1/1,2	--	6 K
	6 A	48 Vdc				
	1/4 hp	125/250 Vac				
1006 w/wo suffix 0000-9999 w/wo Code R38	16 A	125 Vac	65	1/1,2	--	6 K
	1 hp	125 Vac				
	2 hp	250 Vac				
1006 w/wo suffix 0000-9999 w/wo Code R44	10 A	125-250 Vac	65	1/1,2	--	6 K
	1/4 hp	125-250 Vac				
1006 w/wo suffix 0000-9999 w/wo Code R109	16 A	125-250 Vac	65	1/1,2	--	6 K
	1/2 hp	125-250 Vac				
Cat. no. with 4 digits may be f/b “.” w/wo suffix 0000-9999 w/wo Rating Code R f/b 1-999						
Cat. no. with 3 digits may be f/b “.” or 0-9 may be f/b by “.” w/wo suffix 0000-9999 w/wo Rating Code R f/b 1-999						

Explanation of product covered table

Abbreviations if used:

f/b - followed by

ww/o - with or without

Res. - Resistive load. 98-100 percent power factor

POL/THR - No. of Poles/No. of Throws. "M" stands for Multi-Pole or Multi-Throw, e.g. 2/M indicates 2 Pole, Multi-Throw.

PP - Per Pole. PP in this column indicates that each pole is capable of switching the rated current

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Notes:

1. Suffix numbers may be added, indicating contact arrangement, type of actuator and mechanical details.

2. Certified as a component for use only where the suitability of the final combination is determined in the end use.

/mk

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