



Westinghouse Electric Corporation
Switchgear Division
East Pittsburgh, Pa. 15112

Technical Data
34-220

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January 16, 1980
Supersedes Catalog Section 34-220,
dated January, 1979
Mailed to: E, D, C/1976/PL

600 Volts, 20 Amperes
Continuous Capacity

Instrument and Control Switches Type W

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Symbols

Style Number

Suffix Letters Incoming (I); Running (R)

Contact Type

Momentary (MO);
Maintained (MA)
Type: Heavy duty (HD);
Modern (M)

Handles

Shape: Round (R); Pistol
Grip (PG); Oval (O)
Fixed: Yes (Handle fastened
with indicator set
screws)
Fixed: No (Without handle,
operated with re-
movable key, See
removable key style
numbers). Refer to
Page 12

Further Information

Descriptive Bulletin 34-250

Prices

Price List 34-009

Instrument and Control Switches
 Listed in DB 34-250

Style Number ⑤ +	Handle			Con- tacts	Panel Thick- ness: in.	Fig. No. ▲	No. of Stages	Style Number ⑤ +	Handle			Con- tacts	Panel Thick- ness: in.	Fig. No. ▲	No. of Stages
	Type	Shape	Fixed						Type	Shape	Fixed				
1040 744	HD	R	Yes	MA	1/8-1/4	1	3	1151 535	M	R	Key only	1/8-1/4	...	...	...
1040 745+	HD	R	Yes	MA	1/8-1/4	2	3	1151 536⑤	M	R	Key only	1/8-1/4	...	...	...
1040 746	HD	R	Yes	MA	1/8-1/4	③	10	1151 537	M	R	Key only	1/8-1/4	...	...	...
1040 747	...	...	No	MA	1/8-1/4	4	1	1151 538	M	R	Key only	1/8-1/4	...	...	...
1040 748⑤	...	...	No	MA	1/8-1/4	5	2	1151 539	M	R	Key only	1/8-1/4	...	...	...
1040 749	...	...	No	MA	1/8-1/4	6	4	1151 540⑤	M	R	Key only	1/8-1/4	...	...	...
1040 750⑤	...	...	No	MA	1/8-1/4	7	4	1151 541⑤	M	R	Key only	1/8-1/4	...	...	...
1040 751	HD	R	Yes	MA	1/8-1/4	9	6	1151 542	M	R	Key only	1/8-1/4	...	...	...
1040 753	...	...	No	MA	1/8-1/4	5	2	1151 543-R	M	R	Key only	1/8-1/4	...	...	...
1040 755	...	...	No	MA	1/8-1/4	13	6	1151 544	M	R	Key only	1/8-1/4	...	...	...
1040 757	HD	R	Yes	MA	1/8-1/4	②	6	1151 545	M	R	Key only	1/8-1/4	...	...	...
1040 758⑤	...	...	No	MA	1/8-1/4	15	3	1151 558	M	R	Key only	2	...	...	...
1040 759⑤	...	...	No	MA	1/8-1/4	15	4	1151 559	M	R	Key only	2	...	...	...
1040 760	...	...	No	MA	1/8-1/4	16	2	1151 560	M	R	Key only	2	...	...	...
1040 761⑤	...	...	No	MA	1/8-1/4	16	3	1151 561	M	R	Key only	2	...	...	...
1040 762	...	...	No	MA	1/8-1/4	8	4	1151 562	M	R	Key only	2	...	...	...
1040 763+	HD	R	Yes	MA	1/8-1/4	21	6	1151 563	M	R	Key only	2	...	...	...
1040 764	HD	R	Yes	MA	1/8-1/4	③	10	1151 564	M	R	Key only	2	...	...	...
1040 765⑤	HD	R	Yes	MA	1/8-1/4	④	7	1151 565	M	R	Key only	2	...	...	...
1040 766	HD	R	Yes	MA	1/8-1/4	22	7	1151 566-R	M	R	Key only	2	...	...	...
1040 770	HD	PG	Yes	MO	1/8-1/4	27	5	1151 567-R	M	R	Key only	2	...	...	...
1040 785	HD	PG	Yes	MO	2	...	4	1151 568	M	R	Key only	2	...	...	...
1105 144	HD	R	Key only	...	1/8-1/4	...	...	1151 877⑤	HD	R	Yes	MA	1/8-1/4	3	5
1105 145⑤	HD	R	Key only	...	1/8-1/4	...	...	1151 878⑤	M	R	Yes	MA	1/8-1/4	3	5
1105 146	HD	R	Key only	...	1/8-1/4	...	...	1170 858	...	...	No	MA	1/8-1/4	12	6
1105 147	HD	R	Key only	...	1/8-1/4	...	...	1170 859⑤	...	...	No	MA	1/8-1/4	13	5
1105 148⑤	HD	R	Key only	...	1/8-1/4	...	...	1173 014⑤	M	R	Yes	MA	1/8-1/4	7	4
1105 149	HD	R	Key only	...	1/8-1/4	...	...	1173 288	HD	R	Yes	MA	1/8-1/4	23	6
1105 150	HD	R	Key only	...	1/8-1/4	...	...	1173 289⑤	M	R	Yes	MA	1/8-1/4	23	6
1105 151	HD	R	Key only	...	1/8-1/4	...	...	1173 297	M	R	Key only	1/8-1/4	...	...	...
1105 152	HD	R	Key only	...	1/8-1/4	...	...	1176 899⑤	M	R	Yes	MA	1/8-1/4	17	6
1105 153	HD	R	Key only	...	1/8-1/4	...	...	1176 900	...	...	No	MA	1/8-1/4	17	6
1105 154-R⑤	HD	R	Key only	...	1/8-1/4	...	...	1176 901	M	R	Key only	1/8-1/4	...	...	...
1105 155-I	HD	R	Key only	...	1/8-1/4	...	...	1176 902	M	R	Yes	MA	1/8-1/4	19	8
1105 156-R	HD	R	Key only	...	1/8-1/4	...	...	1176 903	M	R	Yes	MA	1/8-1/4	20	9
1105 157-I	HD	R	Key only	...	1/8-1/4	...	...	1176 904	M	R	Key only	1/8-1/4	...	...	...
1105 390	...	...	No	MA	1/8-1/4	⑤	9	1227 216	HD	O	Yes	MA	1/8-1/4	⑤	2
1105 391	HD	R	Key only	...	1/8-1/4	...	...	1241 725	M	O	Yes	MA	1/8-1/4	40	6
1124 114	...	...	No	MA	1/8-1/4	⑤	8	1247 751⑤	M	R	Yes	MA	1/8-1/4	8	4
1124 232-I	M	R	Key only	...	1/8-1/4	...	...	1251 247	M	R	Yes	MA	1/8-1/4	6	4
1124 234	M	R	Key only	...	2	...	...	1251 547	...	...	No	MA	1/8-1/4	14	2
1151 500	M	R	Yes	MA	1/8-1/4	1	3	1254 746	HD	R	Yes	MA	1/8-1/4	6	4
1151 501⑤	M	R	Yes	MA	1/8-1/4	2	3	1257 804	HD	PG	Yes	MO	1/8-1/4	41	9
1151 503	M	R	Yes	MA	1/8-1/4	9	6	1305 390	M	R	Yes	MA	1/8-1/4	⑥	10
1151 505-I	M	R	Key only	...	1/8-1/4	...	...	1332 265	M	PG	Yes	MO	1/8-1/4	⑩	8
1151 506	M	R	Yes	MA	1/8-1/4	②	6	1332 266	M	PG	Yes	MO	1/8-1/4	⑩	10
1151 507⑤	M	R	Yes	MA	1/8-1/4	21	6	1350 077	M	R	Yes	MA	2	...	8
1151 508	M	R	Yes	MA	1/8-1/4	②	10	1404 171	HD	R	Key only	2	...	...	...
1151 509	M	R	Yes	MA	1/8-1/4	④	7	1404 864	HD	R	Yes	MA	1/8-1/4	10	8
1151 522	M	R	Yes	MA	2	1	3	1404 865⑤	M	R	Yes	MA	1/8-1/4	10	8
1151 523+	M	R	Yes	MA	2	2	3	1418 722⑤	HD	R	Yes	MA	1/8-1/4	7	4
1151 525	M	R	Yes	MA	2	9	6	1481 431⑤	M	R	Yes	MA	1/8-1/4	11	6
1151 527-I	M	R	Key only	...	2	...	...	1481 467	M	R	Yes	MA	1/8-1/4	108	6
1151 528	M	R	Yes	MA	2	②	6	1481 698	M	R	Yes	MA	2	3	5
1151 529+	M	R	Yes	MA	2	21	6	1481 699	M	R	Yes	MA	2	6	4
1151 530	M	R	Yes	MA	2	②	10	1481 700	M	R	Yes	MA	2	7	4
1151 531	M	R	Yes	MA	2	④	7	1481 701	M	R	Yes	MA	2	8	4
1151 532	M	R	Yes	MA	2	22	7	1481 702	M	R	Yes	MA	2	10	8
1151 533	M	R	Key only	...	1/8-1/4	...	...	1481 737⑤	...	...	No	MA	1/8-23	18	8
1151 534	M	R	Key only	...	1/8-1/4	...	...	1481 738	...	...	No	MA	1/8-1/4	20	11

⑤ Stocked as complete unit. Order as one style only.

+ Stocked as components. Order component styles as listed on Page 14.

▲ Refer to tabulations on Pages 2 to 25 inc., DB 34-250.

① Drawing 851620.

② Drawing 95-D-120.

③ Drawing 1-D-2739.

④ Drawing 1-D-2740.

⑤ Drawing 1-D-2730

⑥ Drawing 1-D-2741

⑦ Drawing 1-B-6159.



Instrument and Control Switches
Listed in DB 34-250

Style Number ⑨ +	Handle Type	Shape	Fixed	Con-tacts	Panel Thick-ness: in.	Fig. No. ▲	No. of Stages	Style Number ⑨ +	Handle Type	Shape	Fixed	Con-tacts	Panel Thick-ness: in.	Fig. No. ▲	No. of Stages
1482 066⑨	M	R	Yes	MA	1/8-1/4	19	9	1530 014+	M	R	Yes	MA	2	59	4
1491 627	M	PG	Yes	MO	2	117	5	1530 015+	HD	O	Yes	MA	1/8-1/4	59	4
1491 628⑨	M	PG	Yes	MO	1/8-1/4	117	5	1530 016+	HD	PG	Yes	MA	1/8-1/4	59	4
1529 776	M	O	Yes	MA	1/8-1/4	1⑩	5	1530 017+	HD	R	Yes	MA	1/8-1/4	59	4
1529 777	M	PG	Yes	MA	1/8-1/4	1⑩	5	1530 018+	M	O	Yes	MA	1/8-3/8	60	6
1529 778	M	R	Yes	MA	1/8-1/4	1⑩	5	1530 019+	M	PG	Yes	MA	1/8-1/4	60	6
1529 779	HD	PG	Yes	MA	1/8-1/4	1⑩	5	1530 020+	M	R	Yes	MA	1/8-1/4	60	6
1529 780	M	O	Yes	MA	1/8-1/4	3⑩	6	1530 021	M	O	Yes	MA	2	60	6
1529 781	M	PG	Yes	MA	1/8-1/4	3⑩	6	1530 022	M	PG	Yes	MA	2	60	6
1529 782	M	R	Yes	MO	1/8-1/4	3⑩	6	1530 023	M	R	Yes	MA	2	60	6
1529 783	HD	PG	Yes	MA	1/8-1/4	3⑩	6	1530 024	HD	O	Yes	MA	1/8-1/4	60	6
1529 784	M	O	Yes	MA	1/8-1/4	3⑩	10	1530 025	HD	PG	Yes	MA	1/8-1/4	60	6
1529 785	M	PG	Yes	MA	1/8-1/4	3⑩	10	1530 026	HD	R	Yes	MA	1/8-1/4	60	6
1529 786	M	R	Yes	MA	1/8-1/4	3⑩	10	1530 027	HD	O	Yes	MA	1/8-1/4	61	6
1529 787	HD	PG	Yes	MA	1/8-1/4	5⑩	10	1530 028	M	PG	Yes	MA	1/8-1/4	61	8
1529 788	M	O	Yes	MA	1/8-1/4	102	4	1530 029	M	R	Yes	MA	3/8-1/4	61	8
1529 789	M	PG	Yes	MO	1/8-1/4	102	4	1530 030	M	O	Yes	MA	2	61	8
1529 790	M	R	Yes	MA	1/8-1/4	102	4	1530 031	M	PG	Yes	MA	2	61	8
1529 791	HD	PG	Yes	MA	1/8-1/4	102	4	1530 032	M	R	Yes	MA	2	61	8
1529 792	M	O	Yes	MA	1/8-1/4	103	6	1530 033	HD	O	Yes	MA	1/8-1/4	61	8
1529 793	M	PG	Yes	MA	1/8-1/4	103	6	1530 034	HD	PG	Yes	MA	1/8-1/4	61	8
1529 794	HD	PG	Yes	MA	1/8-1/4	103	6	1530 035	HD	R	Yes	MA	1/8-1/4	61	8
1529 795	M	O	Yes	MA	1/8-1/4	11⑩	10	1530 036	M	O	Yes	MA	1/8-1/4	62	10
1529 796	M	PG	Yes	MA	1/8-1/4	11⑩	10	1530 037	M	PG	Yes	MA	1/8-1/4	62	10
1529 797	HD	PG	Yes	MA	1/8-1/4	11⑩	10	1530 038	M	O	Yes	MA	1/8-1/4	62	10
1529 798	M	O	Yes	MO	1/8-1/4	13⑩	7	1530 039	M	O	Yes	MA	2	62	10
1529 799	M	PG	Yes	MO	1/8-1/4	2⑩	5	1530 040	M	PG	Yes	MA	2	62	10
1529 800	HD	PG	Yes	MO	1/8-1/4	2⑩	5	1530 041	M	R	Yes	MA	2	62	10
1529 801	M	PG	Yes	MO	1/8-1/4	4⑩	7	1530 042	HD	O	Yes	MA	1/8-1/4	62	10
1529 802	HD	PG	Yes	MO	1/8-1/4	4⑩	7	1530 043	HD	PG	Yes	MA	1/8-1/4	62	10
1529 803	M	PG	Yes	MO	1/8-1/4	6⑩	9	1530 044	HD	R	Yes	MA	1/8-1/4	62	10
1529 804	HD	PG	Yes	MO	1/8-1/4	6⑩	9	1530 045+	M	O	Yes	MA	1/8-1/4	63	2
1529 805	M	PG	Yes	MO	1/8-1/4	8⑩	4	1530 046▲	M	PG	Yes	MA	1/8-1/4	63	2
1529 806	HD	PG	Yes	MO	1/8-1/4	8⑩	4	1530 047+	M	R	Yes	MA	1/8-1/4	63	2
1529 807	M	PG	Yes	MO	1/8-1/4	10⑩	6	1530 048	M	O	Yes	MA	2	63	2
1529 808	HD	PG	Yes	MO	1/8-1/4	10⑩	6	1530 049	M	PG	Yes	MA	2	63	2
1529 809	M	PG	Yes	MO	1/8-1/4	11⑩	9	1530 050	M	R	Yes	MA	2	63	2
1529 810	HD	PG	Yes	MO	1/8-1/4	11⑩	9	1530 051	HD	O	Yes	MA	1/8-1/4	63	2
1529 811	M	PG	Yes	MO	1/8-1/4	13⑩	7	1530 052	HD	PG	Yes	MA	1/8-1/4	63	2
1529 812	HD	O	Yes	MO	1/8-1/4	13⑩	7	1530 053	HD	R	Yes	MA	1/8-1/4	63	2
1529 813	HD	PG	Yes	MO	1/8-1/4	13⑩	7	1530 054	M	O	Yes	MA	1/8-1/4	64	4
1529 814	M	R	Yes	MA	1/8-1/4	103	6	1530 055+	M	PG	Yes	MA	1/8-1/4	64	4
1529 815	M	R	Yes	MA	1/8-1/4	11⑩	10	1530 056+	M	R	Yes	MA	1/8-1/4	64	4
1529 816	HD	R	Yes	MA	1/8-1/4	8	4	1530 057+	M	O	Yes	MA	2	64	4
1529 846	M	O	Yes	MO	2	38	6	1530 058+	M	PG	Yes	MA	2	64	4
1529 847	M	O	Yes	MO	2	39	4	1530 059+	M	R	Yes	MA	2	64	4
1530 000+	M	O	Yes	MA	1/8-1/4	57	2	1530 060+	HD	O	Yes	MA	1/8-1/4	64	4
1530 001+	M	PG	Yes	MA	1/8-1/4	57	2	1530 061+	HD	PG	Yes	MA	1/8-1/4	64	4
1530 002+	M	R	Yes	MA	1/8-1/4	57	2	1530 062+	HD	R	Yes	MA	1/8-1/4	64	4
1530 003+	M	O	Yes	MA	2	57	2	1530 063+	M	O	Yes	MA	1/8-1/4	65	6
1530 004+	M	PG	Yes	MA	2	57	2	1530 064+	M	PG	Yes	MA	1/8-1/4	65	6
1530 005+	M	R	Yes	MA	2	57	2	1530 065+	M	R	Yes	MA	1/8-1/4	65	6
1530 006+	HD	O	Yes	MA	1/8-1/4	57	2	1530 066	M	O	Yes	MA	2	65	6
1530 007+	HD	PG	Yes	MA	1/8-1/4	57	2	1530 067	M	PG	Yes	MA	2	65	6
1530 008+	HD	R	Yes	MA	1/8-1/4	57	2	1530 068	M	R	Yes	MA	2	65	6
1530 009+	M	O	Yes	MA	1/8-1/4	59	4	1530 069	HD	O	Yes	MA	1/8-1/4	65	6
1530 010+	M	PG	Yes	MA	1/8-1/4	59	4	1530 070	HD	PG	Yes	MA	1/8-1/4	65	6
1530 011+	M	R	Yes	MA	1/8-1/4	59	4	1530 071	HD	R	Yes	MA	1/8-1/4	65	6
1530 012+	M	O	Yes	MA	2	59	4	1530 072+	M	O	Yes	MA	1/8-1/4	65	8
1530 013+	M	PG	Yes	MA	2	59	4	1530 073+	M	PG	Yes	MA	1/8-1/4	66	8

⑨ Stocked as complete unit. Order as one style only.

+ Stocked as components. Order component styles as listed on Page 14

▲ Refer to tabulations on Pages 2 to 25 inc., DB 34-250.

⑨ Drawing 18-D-8867.

⑩ Drawing 18-D-8870.

⑪ Drawing 15-A-3812.

⑫ Drawing 25-A-5136.

Instrument and Control Switches
 Listed in DB 34-250

Style Number ③ +	Handle			Con- tacts	Panel Thick- ness: in.	Fig. No. ▲	No. of Stages	Style Number ③ +	Handle			Con- tacts	Panel Thick- ness: in.	Fig. No. ▲	No. of Stages
Type	Shape	Fixed						Type	Shape	Fixed					
1530 074+	M	R	Yes	MA	1/8-1/4	66	8	1530 134	HD	R	Yes	MA	1/8-1/4	72	10
1530 075+	M	O	Yes	MA	2	66	8	1530 135+	M	O	Yes	MA	1/8-1/4	73	2
1530 076+	M	PG	Yes	MA	2	66	8	1530 136+	M	PG	Yes	MA	1/8-1/4	73	2
1530 077+	M	R	Yes	MA	2	66	8	1530 137+	M	R	Yes	MA	1/8-1/4	73	2
1530 078+	HD	O	Yes	MA	1/8-1/4	66	8	1530 138	M	O	Yes	MA	2	73	2
1530 079+	HD	PG	Yes	MA	1/8-1/4	66	8	1530 139	M	PG	Yes	MA	2	73	2
1530 080+	HD	R	Yes	MA	1/8-1/4	66	8	1530 140	M	R	Yes	MA	2	73	2
1530 081	M	O	Yes	MA	1/8-1/4	67	10	1530 141	HD	O	Yes	MA	1/8-1/4	73	2
1530 082	M	PG	Yes	MA	1/8-1/4	67	10	1530 142	HD	PG	Yes	MA	1/8-1/4	73	2
1530 083	M	R	Yes	MA	1/8-1/4	67	10	1530 143	HD	R	Yes	MA	1/8-1/4	73	2
1530 084	M	O	Yes	MA	2	67	10	1530 144+	M	O	Yes	MA	1/8-1/4	74	4
1530 085	M	PG	Yes	MA	2	67	10	1530 145+	M	PG	Yes	MA	1/8-1/4	74	4
1530 086	M	R	Yes	MA	2	67	10	1530 146+	M	R	Yes	MA	1/8-1/4	74	4
1530 087	HD	O	Yes	MA	1/8-1/4	67	10	1530 147+	M	O	Yes	MA	2	74	4
1530 088	HD	PG	Yes	MA	1/8-1/4	67	10	1530 148+	M	PG	Yes	MA	2	74	4
1530 089	HD	R	Yes	MA	1/8-1/4	67	10	1530 149+	M	R	Yes	MA	2	74	4
1530 090+	M	O	Yes	MA	1/8-1/4	68	2	1530 150+	HD	O	Yes	MA	1/8-1/4	74	4
1530 091+	M	PG	Yes	MA	1/8-1/4	68	2	1530 151+	HD	PG	Yes	MA	1/8-1/4	74	4
1530 092+	M	R	Yes	MA	3/8-1/4	68	2	1530 152+	HD	R	Yes	MA	1/8-1/4	74	4
1530 093+	M	O	Yes	MA	2	68	2	1530 153+	M	O	Yes	MA	1/8-1/4	75	6
1530 094+	M	PG	Yes	MA	2	68	2	1530 154+	M	PG	Yes	MA	1/8-1/4	75	6
1530 095+	M	R	Yes	MA	2	68	2	1530 155+	M	R	Yes	MA	1/8-1/4	75	6
1530 096+	HD	O	Yes	MA	1/8-1/4	68	2	1530 156	M	O	Yes	MA	2	75	6
1530 097+	HD	PG	Yes	MA	1/8-1/4	68	2	1530 157	M	PG	Yes	MA	2	75	6
1530 098+	HD	R	Yes	MA	1/8-1/4	68	2	1530 158	M	R	Yes	MA	2	75	6
1530 099+	M	O	Yes	MA	1/8-1/4	69	4	1530 159	HD	O	Yes	MA	1/8-1/4	75	6
1530 100+	M	PG	Yes	MA	1/8-1/4	69	4	1530 160	HD	PG	Yes	MA	1/8-1/4	75	6
1530 101+	M	R	Yes	MA	1/8-1/4	69	4	1530 161	HD	R	Yes	MA	1/8-1/4	75	6
1530 102+	M	O	Yes	MA	2	69	4	1530 162	M	O	Yes	MA	1/8-1/4	75	8
1530 103+	M	PG	Yes	MA	2	69	4	1530 163	M	PG	Yes	MA	1/8-1/4	75	8
1530 104+	M	R	Yes	MA	2	69	4	1530 164	M	R	Yes	MA	1/8-1/4	76	8
1530 105+	HD	O	Yes	MA	1/8-1/4	69	4	1530 165	M	O	Yes	MA	2	76	8
1530 106+	HD	PG	Yes	MA	1/8-1/4	69	4	1530 166	M	PG	Yes	MA	2	76	8
1530 107+	HD	R	Yes	MA	1/8-1/4	69	4	1530 167	M	R	Yes	MA	2	76	8
1530 108+	M	O	Yes	MA	1/8-1/4	70	6	1530 168	HD	O	Yes	MA	1/8-1/4	76	8
1530 109+	M	PG	Yes	MA	1/8-1/4	70	6	1530 169	HD	PG	Yes	MA	1/8-1/4	76	8
1530 110+	M	R	Yes	MA	1/8-1/4	70	6	1530 170	HD	R	Yes	MA	1/8-1/4	76	8
1530 111	M	O	Yes	MA	2	70	6	1530 171	M	O	Yes	MA	1/8-1/4	77	10
1530 112	M	PG	Yes	MA	2	70	6	1530 172	M	PG	Yes	MA	1/8-1/4	77	10
1530 113	M	R	Yes	MA	2	70	6	1530 173	M	R	Yes	MA	1/8-1/4	77	10
1530 114	HD	O	Yes	MA	1/8-1/4	70	6	1530 174	M	O	Yes	MA	2	77	10
1530 115	HD	PG	Yes	MA	1/8-1/4	70	6	1530 175	M	PG	Yes	MA	2	77	10
1530 116	HD	R	Yes	MA	1/8-1/4	70	6	1530 176	M	R	Yes	MA	2	77	10
1530 117+	M	O	Yes	MA	1/8-1/4	71	8	1530 177	HD	O	Yes	MA	1/8-1/4	77	10
1530 118+	M	PG	Yes	MA	1/8-1/4	71	8	1530 178	HD	PG	Yes	MA	1/8-1/4	77	10
1530 119+	M	R	Yes	MA	1/8-1/4	71	8	1530 179	HD	R	Yes	MA	1/8-1/4	77	10
1530 120	M	O	Yes	MA	2	71	8	1530 180+	M	O	Yes	MA	1/8-1/4	78	3
1530 121	M	PG	Yes	MA	2	71	8	1530 181+	M	PG	Yes	MA	1/8-1/4	78	3
1530 122	M	R	Yes	MA	2	71	8	1530 182+	M	R	Yes	MA	1/8-1/4	78	3
1530 123	HD	O	Yes	MA	1/8-1/4	71	8	1530 183	M	O	Yes	MA	2	78	3
1530 124	HD	PG	Yes	MA	1/8-1/4	71	8	1530 184	M	PG	Yes	MA	2	78	3
1530 125	HD	R	Yes	MA	1/8-1/4	71	8	1530 185	M	R	Yes	MA	2	78	3
1530 126+	M	O	Yes	MA	1/8-1/4	72	10	1530 186	HD	O	Yes	MA	1/8-1/4	78	3
1530 127+	M	PG	Yes	MA	1/8-1/4	72	10	1530 187	HD	PG	Yes	MA	1/8-1/4	78	3
1530 128+	M	R	Yes	MA	1/8-1/4	72	10	1530 188	HD	R	Yes	MA	1/8-1/4	78	3
1530 129	M	O	Yes	MA	2	72	10	1530 189	M	O	Yes	MA	1/8-1/4	79	6
1530 130	M	PG	Yes	MA	2	72	10	1530 190	M	PG	Yes	MA	1/8-1/4	79	6
1530 131	M	R	Yes	MA	2	72	10	1530 191	M	R	Yes	MA	1/8-1/4	79	6
1530 132	HD	O	Yes	MA	1/8-1/4	72	10	1530 192	M	O	Yes	MA	2	79	6
1530 133	HD	PG	Yes	MA	1/8-1/4	72	10	1530 193	M	PG	Yes	MA	2	79	6

③ Stocked as complete unit. Order as one style only.

+ Stocked as components. Order component styles as listed on Page 14

▲ Refer to tabulations on Pages 2 to 25 inc., DB 34-250.



Instrument and Control Switches
Listed in DB 34-250

Style Number ③ +	Handle			Con- tacts	Panel Thick- ness: in.	Fig. No. ▲	No. of Stages	Style Number ③ +	Handle			Con- tacts	Panel Thick- ness: in.	Fig. No. ▲	No. of Stages
	Type	Shape	Fixed						Type	Shape	Fixed				
1530 194	M	R	Yes	MA	2	79	6	1530 254	M	R	Yes	MA	1/8-1/4	86	10DB
1530 195	HD	O	Yes	MA	1/8-1/4	79	6	1530 255	M	O	Yes	MA	2	86	10DB
1530 196	HD	PG	Yes	MA	1/8-1/4	79	6	1530 256	M	PG	Yes	MA	2	86	10DB
1530 197	HD	R	Yes	MA	1/8-1/4	79	6	1530 257	M	R	Yes	MA	2	86	10DB
1530 198	M	O	Yes	MA	1/8-1/4	80	6	1530 258	HD	O	Yes	MA	1/8-1/4	86	10DB
1530 199	M	PG	Yes	MA	1/8-1/4	80	9	1530 259	HD	PG	Yes	MA	1/8-1/4	86	10DB
1530 200	M	R	Yes	MA	1/8-1/4	80	9	1530 260	HD	R	Yes	MA	1/8-1/4	86	10DB
1530 201	M	O	Yes	MA	2	80	9	1530 261	M	O	Yes	MA	1/8-1/4	87	6DB
1530 202	M	PG	Yes	MA	2	80	9	1530 262	M	PG	Yes	MA	1/8-1/4	87	6DB
1530 203	M	R	Yes	MA	2	80	9	1530 263	M	R	Yes	MA	1/8-1/4	87	6DB
1530 204	HD	O	Yes	MA	1/8-1/4	80	9	1530 264	M	O	Yes	MA	2	87	6DB
1530 205	HD	PG	Yes	MA	1/8-1/4	80	9	1530 265	M	PG	Yes	MA	2	87	6DB
1530 206	HD	R	Yes	MA	1/8-1/4	80	9	1530 266	M	R	Yes	MA	2	87	6DB
1530 207	M	O	Yes	MA	1/8-1/4	81	3	1530 267	HD	O	Yes	MA	1/8-1/4	87	6DB
1530 208	M	PG	Yes	MA	1/8-1/4	81	3	1530 268	HD	PG	Yes	MA	1/8-1/4	87	6DB
1530 209	M	R	Yes	MA	1/8-1/4	81	3	1530 269	HD	R	Yes	MA	1/8-1/4	87	6DB
1530 210	M	O	Yes	MA	2	81	3	1530 270	M	O	Yes	MA	1/8-1/4	88	8DB
1530 211	M	PG	Yes	MA	2	81	3	1530 271	M	PG	Yes	MA	1/8-1/4	88	8DB
1530 212	M	R	Yes	MA	2	81	3	1530 272	M	R	Yes	MA	1/8-1/4	88	8DB
1530 213	HD	O	Yes	MA	1/8-1/4	81	3	1530 273	M	O	Yes	MA	2	88	8DB
1530 214	HD	PG	Yes	MA	1/8-1/4	81	3	1530 274	M	PG	Yes	MA	2	88	8DB
1530 215	HD	R	Yes	MA	1/8-1/4	81	3	1530 275	M	R	Yes	MA	2	88	8DB
1530 216	M	O	Yes	MA	1/8-1/4	82	6	1530 276	HD	O	Yes	MA	1/8-1/4	88	8DB
1530 217	M	PG	Yes	MA	1/8-1/4	82	6	1530 277	HD	PG	Yes	MA	1/8-1/4	88	8DB
1530 218	M	R	Yes	MA	1/8-1/4	82	6	1530 278	HD	R	Yes	MA	1/8-1/4	88	8DB
1530 219	M	O	Yes	MA	2	82	6	1530 279	M	O	Yes	MA	1/8-1/4	89	10DB
1530 220	M	PG	Yes	MA	2	82	6	1530 280	M	PG	Yes	MA	1/8-1/4	89	10DB
1530 221	M	R	Yes	MA	2	82	6	1530 281	M	R	Yes	MA	1/8-1/4	89	10DB
1530 222	HD	O	Yes	MA	1/8-1/4	82	6	1530 282	M	O	Yes	MA	2	89	10DB
1530 223	HD	PG	Yes	MA	1/8-1/4	82	6	1530 283	M	PG	Yes	MA	2	89	10DB
1530 224	HD	R	Yes	MA	1/8-1/4	82	6	1530 284	M	R	Yes	MA	2	89	10DB
1530 225	M	O	Yes	MA	1/8-1/4	83	9	1530 285	HD	O	Yes	MA	1/8-1/4	89	10DB
1530 226	M	PG	Yes	MA	1/8-1/4	83	9	1530 286	HD	PG	Yes	MA	1/8-1/4	89	10DB
1530 227	M	R	Yes	MA	1/8-1/4	83	9	1530 287	HD	R	Yes	MA	1/8-1/4	89	10DB
1530 228	M	O	Yes	MA	2	83	9	1530 288	M	O	Yes	MA	1/8-1/4	90	2
1530 229	M	PG	Yes	MA	2	83	9	1530 289	M	PG	Yes	MA	1/8-1/4	90	2
1530 230	M	R	Yes	MA	2	83	9	1530 290	M	R	Yes	MA	1/8-1/4	90	2
1530 231	HD	O	Yes	MA	1/8-1/4	83	9	1530 291	M	O	Yes	MA	2	90	2
1530 232	HD	PG	Yes	MA	1/8-1/4	83	9	1530 292	M	PG	Yes	MA	2	90	2
1530 233	HD	R	Yes	MA	1/8-1/4	83	9	1530 293	M	R	Yes	MA	2	90	2
1530 234	M	O	Yes	MA	1/8-1/4	84	6DB	1530 294	HD	O	Yes	MA	1/8-1/4	90	2
1530 235	M	PG	Yes	MA	1/8-1/4	84	6DB	1530 295	HD	PG	Yes	MA	1/8-1/4	90	2
1530 236	M	R	Yes	MA	1/8-1/4	84	6DB	1530 296	HD	R	Yes	MA	1/8-1/4	90	2
1530 237	M	O	Yes	MA	2	84	6DB	1530 297	M	O	Yes	MA	1/8-1/4	91	4
1530 238	M	PG	Yes	MA	2	84	6DB	1530 298	M	PG	Yes	MA	1/8-1/4	91	4
1530 239	M	R	Yes	MA	2	84	6DB	1530 299	M	R	Yes	MA	1/8-1/4	91	4
1530 240	HD	O	Yes	MA	1/8-1/4	84	6DB	1530 300	M	O	Yes	MA	2	91	4
1530 241	HD	PG	Yes	MA	1/8-1/4	84	6DB	1530 301	M	PG	Yes	MA	2	91	4
1530 242	HD	R	Yes	MA	1/8-1/4	84	6DB	1530 302	M	R	Yes	MA	2	91	4
1530 243	M	O	Yes	MA	1/8-1/4	85	8DB	1530 303	HD	O	Yes	MA	1/8-1/4	91	4
1530 244	M	PG	Yes	MA	1/8-1/4	85	8DB	1530 304	HD	PG	Yes	MA	1/8-1/4	91	4
1530 245	M	R	Yes	MA	1/8-1/4	85	8DB	1530 305	HD	R	Yes	MA	1/8-1/4	91	4
1530 246	M	O	Yes	MA	2	85	8DB	1530 306	M	O	Yes	MA	1/8-1/4	92	4
1530 247	M	PG	Yes	MA	2	85	8DB	1530 307	M	PG	Yes	MA	1/8-1/4	92	4
1530 248	M	R	Yes	MA	2	85	8DB	1530 308	M	R	Yes	MA	1/8-1/4	92	4
1530 249	HD	O	Yes	MA	1/8-1/4	85	8DB	1530 309	M	O	Yes	MA	2	92	4
1530 250	HD	PG	Yes	MA	1/8-1/4	85	8DB	1530 310	M	PG	Yes	MA	2	92	4
1530 251	HD	R	Yes	MA	1/8-1/4	85	8DB	1530 311	M	R	Yes	MA	2	92	4
1530 252	M	O	Yes	MA	1/8-1/4	86	10DB	1530 312	HD	O	Yes	MA	1/8-1/4	92	4
1530 253	M	PG	Yes	MA	1/8-1/4	86	10DB	1530 313	HD	PG	Yes	MA	1/8-1/4	92	4

③ Stocked as complete unit. Order as one style only.

+ Stocked as components. Order component styles as listed on Page 14

▲ Refer to tabulations on Pages 2 to 25 inc., DB 34-250.

Instrument and Control Switches
 Listed in DB 34-250

Style Number ⑤ +	Handle			Con- tacts	Panel Thick- ness: in.	Fig. No. ▲	No. of Stages	Style Number ⑤ +	Handle			Con- tacts	Panel Thick- ness: in.	Fig. No. ▲	No. of Stages
	Type	Shape	Fixed						Type	Shape	Fixed				
1530 314	HD	R	Yes	MA	1/8-1/4	92	4	1533 385	HD	PG	Yes	MO	1/8-1/4	104	5
1530 315	M	O	Yes	MA	1/8-1/4	93	4	1533 406	M	O	Yes	MO	1/8-1/4	14⑤	5
1530 316	M	PG	Yes	MA	1/8-1/4	92	4	1533 407	M	PG	Yes	MO	1/8-1/4	14⑤	5
1530 317	M	R	Yes	MA	1/8-1/4	93	4	1533 408	M	R	Yes	MO	1/8-3/4	14⑤	5
1530 318	M	O	Yes	MA	2	93	4	1533 409	HD	PG	Yes	MO	1/8-1/4	14⑤	5
1530 319	M	PG	Yes	MA	2	93	4	1533 653	HD	PG	Yes	MA	1/8-1/4	18⑤	6
1530 320	M	R	Yes	MA	2	93	4	1533 654	HD	PG	Yes	MA	1/8-1/4	19⑤	4
1530 321	HD	O	Yes	MA	1/8-1/4	93	4	1533 998	...	...	No	MA	1/8-1/4	5	2
1530 322	HD	PG	Yes	MA	1/8-1/4	93	4	1533 999	...	...	No	MA	1/8-1/4	5	2
1530 323	HD	R	Yes	MA	1/8-1/4	93	4	1534 403	...	...	No	MA	1/8-1/4	5	2
1530 324	M	O	Yes	MA	1/8-1/4	94	6	1534 404	...	...	No	MA	1/8-1/4	5	2
1530 325	M	PG	Yes	MA	1/8-1/4	94	6	1534 405	...	...	No	MA	1/8-1/4	5	2
1530 326	M	R	Yes	MA	1/8-1/4	94	6	1534 406	...	...	No	MA	1/8-1/4	6	4
1530 327+	M	O	Yes	MA	2	94	6	1534 407	...	...	No	MA	1/8-1/4	6	4
1530 328+	M	PG	Yes	MA	2	94	6	1534 408	...	...	No	MA	1/8-1/4	6	4
1530 329+	M	R	Yes	MA	2	94	6	1534 409	...	...	No	MA	1/8-1/4	7	4
1530 330+	HD	O	Yes	MA	1/8-1/4	94	6	1534 410	...	...	No	MA	1/8-1/4	7	4
1530 331+	HD	PG	Yes	MA	1/8-1/4	94	6	1534 411	...	...	No	MA	1/8-1/4	7	4
1530 332+	HD	R	Yes	MA	1/8-1/4	94	6	1534 412	...	...	No	MA	1/8-1/4	12	6
1530 333	M	O	Yes	MA	1/8-1/4	95	10	1534 413	...	...	No	MA	1/8-1/4	12	6
1530 334	M	PG	Yes	MA	1/8-1/4	95	10	1534 414	...	...	No	MA	1/8-1/4	12	6
1530 335	M	R	Yes	MA	1/8-1/4	95	10	1534 415	...	...	No	MA	1/8-1/4	13	5
1530 336	M	O	Yes	MA	2	95	10	1534 416	...	...	No	MA	1/8-1/4	14	2
1530 337	M	PG	Yes	MA	2	95	10	1534 417	...	...	No	MA	1/8-1/4	15	3
1530 338	M	R	Yes	MA	2	95	10	1534 418	...	...	No	MA	1/8-1/4	15	3
1530 339	HD	O	Yes	MA	1/8-1/4	95	10	1534 419	...	...	No	MA	1/8-1/4	15	4
1530 340	HD	PG	Yes	MA	1/8-1/4	95	10	1534 420	...	...	No	MA	1/8-1/4	15	4
1530 341	HD	R	Yes	MA	1/8-1/4	95	10	1534 421	...	...	No	MA	1/8-1/4	20	11
1530 342	M	O	Yes	MA	1/8-1/4	97	4	1534 422	...	...	No	MA	1/8-1/4	16	2
1530 343	M	PG	Yes	MA	1/8-1/4	97	4	1534 423	...	...	No	MA	1/8-1/4	16	3
1530 344	M	R	Yes	MA	1/8-1/4	97	4	1534 424	...	...	No	MA	1/8-1/4	5	2
1530 345	M	O	Yes	MA	2	97	4	1534 425	...	...	No	MA	1/8-1/4	8	4
1530 346	M	PG	Yes	MA	2	97	4	1534 426	...	...	No	MA	1/8-1/4	8	4
1530 347	M	R	Yes	MA	2	97	4	1534 427	...	...	No	MA	1/8-1/4	8	4
1530 348	HD	O	Yes	MA	1/8-1/4	97	4	1534 428	...	...	No	MA	1/8-1/4	8	4
1530 349	HD	PG	Yes	MA	1/8-1/4	97	4	1534 481	HD	R	Yes	MA	1/8-1/4	22	8
1530 350	HD	R	Yes	MA	1/8-1/4	97	4	1534 482	M	R	Yes	MA	1/8-1/4	22	8
1530 351	M	O	Yes	MA	1/8-1/4	98	8	1534 483	M	R	Yes	MA	2	22	8
1530 352	M	PG	Yes	MA	1/8-1/4	98	8	1534 632	M	O	Yes	MO	1/8-1/4	116	8
1530 353	M	R	Yes	MA	1/8-1/4	98	8	1581 564+	M	O	Yes	MA	1/8-1/4	56	1
1530 354	M	O	Yes	MA	2	98	8	1581 565+	M	PG	Yes	MA	1/8-1/4	56	1
1530 355	M	PG	Yes	MA	2	98	8	1581 566+	M	R	Yes	MA	1/8-1/4	56	1
1530 356	M	R	Yes	MA	2	98	8	1581 567	M	O	Yes	MA	2	56	1
1530 357	HD	O	Yes	MA	1/8-1/4	98	8	1581 568	M	PG	Yes	MA	2	56	1
1530 358	HD	PG	Yes	MA	1/8-1/4	98	8	1581 569	M	R	Yes	MA	2	56	1
1530 359	HD	R	Yes	MA	1/8-1/4	98	8	1581 570	HD	O	Yes	MA	1/8-1/4	56	1
1530 441	M	O	Yes	MO	1/8-1/4	67	10	1581 571	HD	PG	Yes	MA	1/8-1/4	56	1
1530 442	M	PG	Yes	MO	1/8-1/4	67	10	1581 572	HD	R	Yes	MA	1/8-1/4	56	1
1530 443	M	R	Yes	MO	1/8-1/4	67	10	1581 573+	M	O	Yes	MA	1/8-1/4	58	3
1530 444	M	O	Yes	MO	2	67	10	1581 574+	M	PG	Yes	MA	1/8-1/4	58	3
1530 445	M	PG	Yes	MO	2	67	10	1581 575+	M	R	Yes	MA	1/8-1/4	58	3
1530 446	M	R	Yes	MO	2	67	10	1581 576	M	O	Yes	MA	2	58	3
1530 447	HD	O	Yes	MO	1/8-1/4	67	10	1581 577	M	PG	Yes	MA	2	58	3
1530 448	HD	PG	Yes	MO	1/8-1/4	67	10	1581 578	M	R	Yes	MA	2	58	3
1530 449	HD	R	Yes	MO	1/8-1/4	67	10	1581 579	HD	O	Yes	MA	1/8-1/4	58	3
1533 380	M	O	Yes	MA	1/8-1/4	104	5	1581 580	HD	PG	Yes	MA	1/8-1/4	58	3
1533 381	M	PG	Yes	MA	1/8-1/4	104	5	1581 581	HD	R	Yes	MA	1/8-1/4	58	3
1533 382	M	R	Yes	MA	1/8-1/4	104	5	1581 582	M	O	Yes	MA	1/8-1/4	96	4
1533 383	HD	PG	Yes	MA	1/8-1/4	104	5	1581 583	M	PG	Yes	MA	1/8-1/4	96	4
1533 384	M	PG	Yes	MO	1/8-1/4	104	5	1581 584	M	R	Yes	MA	1/8-1/4	96	4

⑤ Stocked as complete unit. Order as one style only.

+ Stocked as components. Order component styles as listed on Page 14

▲ Refer to tabulations on Pages 2 to 25 inc., DB 34-250.

⑤ Drawing 25-A-5136.

**Instrument and Control Switches**
Listed in DB 34-250

Style Number ③ +	Handle			Con- tacts	Panel Thick- ness: in.	Fig. No. ▲	No. of Stages	Style Number ③ +	Handle			Con- tacts	Panel Thick- ness: in.	Fig. No. ▲	No. of Stages
	Type	Shape	Fixed						Type	Shape	Fixed				
1581 585	M	O	Yes	MA	2	96	4	1645 632	M	R	Yes	MO	1/8-1/4	61	8
1581 586	M	PG	Yes	MA	2	96	4	1645 633	M	O	Yes	MO	2	61	8
1581 587	M	R	Yes	MA	2	96	4	1645 634	M	PG	Yes	MO	2	61	8
1581 588	HD	O	Yes	MA	1/8-1/4	96	4	1645 635	M	R	Yes	MO	2	61	8
1581 589	HD	PG	Yes	MA	1/8-1/4	96	4	1645 636	HD	O	Yes	MO	1/8-1/4	61	8
1581 590	HD	R	Yes	MA	1/8-1/4	96	4	1645 637	HD	PG	Yes	MO	1/8-1/4	61	8
1584 284	M	R	Yes	MA	1/8-1/4	113	8	1645 638	HD	R	Yes	MO	1/8-1/4	61	8
1584 285	M	R	Yes	MA	1 1/2	113	8	1645 639	M	O	Yes	MO	1/8-1/4	62	10
1584 373	M	R	Yes	MA	1/8-1/4	114	11	1645 640	M	PG	Yes	MO	1/8-1/4	62	10
1611 494	M	R	Yes	MA	1/8-1/4	110	6	1645 641	M	R	Yes	MO	1/8-1/4	61	10
1616 078	M	R	Yes	MA	1/8-1/4	115	11	1645 642	M	O	Yes	MO	2	62	10
1616 150	M	O	Yes	MA	1/8-1/4	100	6	1645 643	M	PG	Yes	MO	2	62	10
1616 151	M	O	Yes	MA	1/8-1/4	99	4	1645 644	M	R	Yes	MO	2	62	10
1654 585	M	O	Yes	MO	1/8-1/4	56	1	1645 645	HD	O	Yes	NO	1/8-1/4	62	10
1645 586	M	PG	Yes	MO	1/8-1/4	56	1	1645 646	HD	PG	Yes	MO	1/8-1/4	62	10
1645 587	M	R	Yes	MO	1/8-1/4	56	1	1645 647	HD	R	Yes	MO	1/8-1/4	62	10
1645 588	M	O	Yes	MO	2	56	1	1645 648	M	O	Yes	MO	1/8-1/4	63	2
1645 589	M	PG	Yes	MO	2	56	1	1645 649	M	PG	Yes	MO	1/8-1/4	63	2
1645 590	M	R	Yes	MO	2	56	1	1645 650	M	R	Yes	MO	1/8-1/4	63	2
1645 591	HD	O	Yes	MO	1/8-1/4	56	1	1645 651	M	O	Yes	MO	2	63	2
1645 592	HD	PG	Yes	MO	1/8-1/4	56	1	1645 652	M	PG	Yes	MO	2	63	2
1645 593	HD	R	Yes	MO	1/8-1/4	56	1	1645 653	M	R	Yes	MO	2	63	2
1645 594	M	O	Yes	MO	1/8-1/4	57	2	1645 654	HD	O	Yes	MO	1/8-1/4	63	2
1645 595	M	PG	Yes	MO	1/8-1/4	57	2	1645 655	HD	PG	Yes	MO	1/8-1/4	63	2
1645 596	M	R	Yes	MO	1/8-1/4	57	2	1645 656	HD	R	Yes	MO	1/8-1/4	63	2
1645 597	M	O	Yes	MO	2	57	2	1645 657	M	O	Yes	MO	1/8-1/4	64	4
1645 598	M	PG	Yes	MO	2	57	2	1645 658	M	PG	Yes	MO	1/8-1/4	64	4
1645 599	M	R	Yes	MO	2	57	2	1645 659	M	R	Yes	MO	1/8-1/4	64	4
1645 600	HD	O	Yes	MO	1/8-1/4	57	2	1645 660	M	O	Yes	MO	2	64	4
1645 601	HD	PG	Yes	MO	1/8-1/4	57	2	1645 661	M	PG	Yes	MO	2	64	4
1645 602	HD	R	Yes	MO	1/8-1/4	57	2	1645 662	M	R	Yes	MO	2	64	4
1645 603	M	O	Yes	MO	1/8-1/4	58	3	1645 663	HD	O	Yes	MO	1/8-1/4	64	4
1645 604	M	PG	Yes	MO	1/8-1/4	58	3	1645 664	HD	PG	Yes	MO	1/8-1/4	64	4
1645 605	M	R	Yes	MO	1/8-1/4	59	3	1645 665	HD	R	Yes	MO	1/8-1/4	64	4
1645 606	M	O	Yes	MO	2	58	3	1645 666	M	O	Yes	MO	1/8-1/4	64	6
1645 607	M	PG	Yes	MO	2	58	3	1645 667	M	PG	Yes	MO	1/8-1/4	65	6
1645 608	M	R	Yes	MO	2	58	3	1645 668	M	R	Yes	MO	1/8-1/4	65	6
1645 609	HD	O	Yes	MO	1/8-1/4	58	3	1645 669	M	O	Yes	MO	2	65	6
1645 610	HD	PG	Yes	MO	1/8-1/4	58	3	1645 670	M	PG	Yes	MO	2	65	6
1645 611	HD	R	Yes	MO	1/8-1/4	58	3	1645 671	M	R	Yes	MO	2	65	6
1645 612	M	O	Yes	MO	1/8-1/4	58	4	1645 672	HD	O	Yes	MO	1/8-1/4	65	6
1645 613	M	PG	Yes	MO	1/8-1/4	58	4	1645 673	HD	PG	Yes	MO	1/8-1/4	65	6
1645 614	M	R	Yes	MO	1/8-1/4	59	4	1645 674	HD	R	Yes	MO	1/8-1/4	65	6
1645 615	M	O	Yes	MO	2	59	4	1645 675	M	O	Yes	MO	1/8-1/4	66	8
1645 616	M	PG	Yes	MO	2	59	4	1645 676	M	PG	Yes	MO	1/8-1/4	66	8
1645 617	M	R	Yes	MO	2	59	4	1645 677	M	R	Yes	MO	1/8-1/4	66	8
1645 618	HD	O	Yes	MO	1/8-1/4	59	4	1645 678	M	O	Yes	MO	2	66	8
1645 619	HD	PG	Yes	MO	1/8-1/4	59	4	1645 679	M	PG	Yes	MO	2	66	8
1645 620	HD	R	Yes	MO	1/8-1/4	59	4	1645 680	M	R	Yes	MO	2	66	8
1645 621	M	O	Yes	MO	1/8-1/4	60	6	1645 681	HD	O	Yes	MO	1/8-1/4	66	8
1645 622	M	PG	Yes	MO	1/8-1/2	60	6	1645 682	HD	PG	Yes	MO	1/8-1/4	66	8
1645 623	M	R	Yes	MO	1/8-1/4	60	6	1645 683	HD	R	Yes	MO	1/8-1/4	66	8
1645 624	M	O	Yes	MO	2	60	6	1645 684+	M	O	Yes	MO	1/8-1/4	73	2
1645 625	M	PG	Yes	MO	2	60	6	1645 685+	M	PG	Yes	MO	1/8-1/4	73	2
1645 626	M	R	Yes	MO	2	60	6	1645 686+	M	R	Yes	MO	1/8-1/4	73	2
1645 627	HD	O	Yes	MO	1/8-1/4	60	6	1645 687+	M	O	Yes	MO	2	73	2
1645 628	HD	PG	Yes	MO	1/8-1/4	60	6	1645 688+	M	PG	Yes	MO	2	73	2
1645 629	HD	R	Yes	MO	1/8-1/4	60	6	1645 689+	M	R	Yes	MO	2	73	2
1645 630	M	O	Yes	MO	1/8-1/4	61	8	1645 690+	HD	O	Yes	MO	1/8-1/4	73	2
1645 631	M	PG	Yes	MO	1/8-1/4	61	8	1645 691+	HD	PG	Yes	MO	1/8-1/4	73	2

③ Stocked as complete unit. Order as one style only.

+ Stocked as components. Order component styles as listed on Page 14

▲ Refer to tabulations on Pages 2 to 25 inc., DB 34-250.

Instrument and Control Switches

Listed in DB 34-250

Style Number ③ +	Handle			Con- tacts	Panel Thick- ness: in.	Fig. No. ▲	No. of Stages	Style Number ③ +	Handle			Con- tacts	Panel Thick- ness: in.	Fig. No. ▲	No. of Stages
Type	Shape	Fixed						Type	Shape	Fixed					
1645 692+	HD	R	Yes	MO	1/8-1/4	73	2	1645 752	M	R	Yes	MO	2	80	9
1645 693+	M	O	Yes	MO	1/8-1/4	74	4	1645 753	HD	O	Yes	MO	1/8-1/4	80	9
1645 694+	M	PG	Yes	MO	1/8-1/4	74	4	1645 754	HD	PG	Yes	MO	1/8-1/4	80	9
1645 695+	M	R	Yes	MO	1/8-1/4	74	4	1645 755	HD	R	Yes	MO	1/8-1/4	80	9
1645 696	M	O	Yes	MO	2	74	4	1645 756	M	O	Yes	MO	1/8-1/4	90	2
1645 697	M	PG	Yes	MO	2	74	4	1645 757	M	PG	Yes	MO	1/8-1/4	90	2
1645 698	M	R	Yes	MO	2	74	4	1645 758	M	R	Yes	MO	1/8-1/4	90	2
1645 699	HD	O	Yes	MO	1/8-1/4	74	4	1645 759+	M	O	Yes	MO	2	90	2
1645 700+	HD	PG	Yes	MO	1/8-1/4	74	4	1645 7631	M	PG	Yes	MO	2	90	2
1645 701	HD	R	Yes	MO	1/8-1/4	74	4	1645 761+	M	R	Yes	MO	2	90	2
1645 702	M	O	Yes	MO	1/8-1/4	75	6	1645 762+	HD	O	Yes	MO	1/8-1/4	90	2
1645 703	M	PG	Yes	MO	1/8-1/4	75	6	1645 763+	HD	PG	Yes	MO	1/8-1/4	90	2
1645 704	M	R	Yes	MO	1/8-1/4	75	6	1645 764+	HD	R	Yes	MO	1/8-1/4	90	2
1645 705	M	O	Yes	MO	2	75	6	1645 765	M	O	Yes	MO	1/8-1/4	91	4
1645 706	M	PG	Yes	MO	2	75	6	1645 766	M	PG	Yes	MO	1/8-1/4	91	4
1645 707	M	R	Yes	MO	2	75	6	1645 767	M	R	Yes	MO	1/8-1/4	91	4
1645 708	HD	O	Yes	MO	1/8-1/4	75	6	1645 768	M	O	Yes	MO	2	91	4
1645 709	HD	PG	Yes	MO	1/8-1/4	75	6	1645 769	M	PG	Yes	MO	2	91	4
1645 710	HD	R	Yes	MO	1/8-1/4	75	6	1645 770	M	R	Yes	MO	2	91	4
1645 711	M	O	Yes	MO	1/8-1/4	76	8	1645 771	HD	O	Yes	MO	1/8-1/4	91	4
1645 712	M	PG	Yes	MO	1/8-1/4	76	8	1645 772	HD	PG	Yes	MO	1/8-1/4	91	4
1645 713	M	R	Yes	MO	1/8-1/4	76	8	1645 773	HD	R	Yes	MO	1/8-1/4	91	4
1645 714	M	O	Yes	MO	2	76	8	1645 774	M	O	Yes	MO	1/8-1/4	92	4
1645 715	M	PG	Yes	MO	2	76	8	1645 775	M	PG	Yes	MO	1/8-1/4	92	4
1645 716	M	R	Yes	MO	2	76	8	1645 776	M	R	Yes	MO	1/8-1/4	92	4
1645 717	HD	O	Yes	MO	1/8-1/4	76	8	1645 777+	M	O	Yes	MO	2	92	4
1645 718	HD	PG	Yes	MO	1/8-1/4	76	8	1645 778+	M	PG	Yes	MO	2	92	4
1645 719	HD	R	Yes	MO	1/8-1/4	76	8	1645 779+	M	R	Yes	MO	2	92	4
1645 720	M	O	Yes	MO	1/8-1/4	77	10	1645 780+	HD	O	Yes	MO	1/8-1/4	92	4
1645 721	M	PG	Yes	MO	1/8-1/4	77	10	1645 781+	HD	PG	Yes	MO	1/8-1/4	92	4
1645 722	M	R	Yes	MO	1/8-1/4	77	10	1645 782+	HD	R	Yes	MO	1/8-1/4	92	4
1645 723	M	O	Yes	MO	2	77	10	1645 783	M	O	Yes	MO	1/8-1/4	93	4
1645 724	M	PG	Yes	MO	2	77	10	1645 784	M	PG	Yes	MO	1/8-1/4	93	4
1645 725	M	R	Yes	MO	2	77	10	1645 785	M	R	Yes	MO	1/8-1/4	93	4
1645 726	HD	O	Yes	MO	1/8-1/4	77	10	1645 786	M	O	Yes	MO	2	93	4
1645 727	HD	PG	Yes	MO	1/8-1/4	77	10	1645 787	M	PG	Yes	MO	2	93	4
1645 728	HD	R	Yes	MO	1/8-1/4	77	10	1645 788	M	R	Yes	MO	2	93	4
1645 729	M	O	Yes	MO	1/8-1/4	78	3	1645 789	HD	O	Yes	MO	1/8-1/4	93	4
1645 730	M	PG	Yes	MO	1/8-1/4	78	3	1645 790③	HD	PG	Yes	MO	1/8-1/4	93	4
1645 731	M	R	Yes	MO	1/8-1/4	78	3	1645 791	HD	R	Yes	MO	1/8-1/4	93	4
1645 732+	M	O	Yes	MO	2	78	3	1645 792	M	O	Yes	MO	1/8-1/4	94	6
1645 733+	M	PG	Yes	MO	2	78	3	1645 793	M	PG	Yes	MO	1/8-1/4	94	6
1645 734+	M	R	Yes	MO	2	78	3	1645 794	M	R	Yes	MO	1/8-1/4	94	6
1645 735+	HD	O	Yes	MO	1/8-1/4	78	3	1645 795	M	O	Yes	MO	2	94	6
1645 736+	HD	PG	Yes	MO	1/8-1/4	78	3	1645 796	M	PG	Yes	MO	2	94	6
1645 737+	HD	R	Yes	MO	1/8-1/4	78	3	1645 797	M	R	Yes	MO	2	94	6
1645 738	M	O	Yes	MO	1/8-1/4	79	6	1645 798	HD	O	Yes	MO	1/8-1/4	94	6
1645 739	M	PG	Yes	MO	1/8-1/4	79	6	1645 799③	HD	PG	Yes	MO	1/8-1/4	94	6
1645 740	M	R	Yes	MO	1/8-1/4	79	6	1645 800	HD	R	Yes	MO	1/8-1/4	94	6
1645 741	M	O	Yes	MO	2	79	6	1645 801	M	O	Yes	MO	1/8-1/4	95	10
1645 742	M	PG	Yes	MO	2	79	6	1645 802	M	PG	Yes	MO	1/8-1/4	95	10
1645 743	M	R	Yes	MO	2	79	6	1645 803	M	R	Yes	MO	1/8-1/4	95	10
1645 744	HD	O	Yes	MO	1/8-1/4	79	6	1645 804	M	O	Yes	MO	2	95	10
1645 745	HD	PG	Yes	MO	1/8-1/4	79	6	1645 805	M	PG	Yes	MO	2	95	10
1645 746	HD	R	Yes	MO	1/8-1/4	79	6	1645 806	M	R	Yes	MO	2	95	10
1645 747	M	O	Yes	MO	1/8-1/4	80	6	1645 807	HD	O	Yes	MO	1/8-1/4	95	10
1645 748	M	PG	Yes	MO	1/8-1/4	80	9	1645 808	HD	PG	Yes	MO	1/8-1/4	95	10
1645 749	M	R	Yes	MO	1/8-1/4	80	9	1645 809	HD	R	Yes	MO	1/8-1/4	95	10
1645 750	M	O	Yes	MO	2	80	9	1645 810	M	O	Yes	MO	1/8-1/4	96	4
1645 751	M	PG	Yes	MO	2	80	9	1645 811	M	PG	Yes	MO	1/8-1/4	96	4

③ Stocked as complete unit. Order as one style only.

+ Stocked as components. Order component styles as listed on Page 14.

▲ Refer to tabulations on Pages 2 to 25 inc., DB 34-250.



Instrument and Control Switches

Listed in DB 34-250

Style Number ③ +	Handle			Con- tacts	Panel Thick- ness: in.	Fig. No. ▲	No. of Stages	Style Number ③ +	Handle			Con- tacts	Panel Thick- ness: in.	Fig. No. ▲	No. of Stages
	Type	Shape	Fixed						Type	Shape	Fixed				
1645 812	M	R	Yes	MO	1/8-1/4	96	4	1645 872	M	O	Yes	MO	2	36	4
1645 813	M	O	Yes	MO	2	96	4	1645 873	M	O	Yes	MO	2	37	5
1645 814	M	PG	Yes	MO	2	96	4	1645 874	M	O	Yes	MO	2	38	6
1645 814	M	R	Yes	MO	2	96	4	1645 875+	M	O	Yes	MO	2	39	4
1645 816	HD	O	Yes	MO	1/8-1/4	96	4	1645 876+	M	O	Yes	MO	2	42	8
1645 817	HD	PG	Yes	MO	1/8-1/4	96	4	1645 877	M	O	Yes	MO	2	43	9
1645 818	HD	R	Yes	MO	1/8-1/4	96	4	1645 878	M	O	Yes	MO	2	44	6
1645 819	M	O	Yes	MO	1/8-1/4	102	4	1645 879	M	O	Yes	MO	2	45	7
1645 820+	M	O	Yes	MO	1/8-1/4	24	3	1645 880+	M	PG	Yes	MO	2	24	3
1645 821+	M	O	Yes	MO	1/8-1/4	25	4	1645 881+	M	PG	Yes	MO	2	25	4
1645 822	M	O	Yes	MO	1/8-1/4	26	4	1645 882	M	PG	Yes	MO	2	26	4
1645 823	M	O	Yes	MO	1/8-1/4	27	5	1645 883	M	PG	Yes	MO	2	27	5
1645 824+	M	O	Yes	MO	1/8-1/4	28	6	1645 884+	M	PG	Yes	MO	2	28	6
1645 825	M	O	Yes	MO	1/8-1/4	29	7	1645 885+	M	PG	Yes	MO	2	29	7
1645 826	M	O	Yes	MO	1/8-1/4	30	5	1645 886+	M	PG	Yes	MO	2	30	5
1645 827	M	O	Yes	MO	1/8-1/4	31	4	1645 887	M	PG	Yes	MO	2	31	4
1645 828+	M	O	Yes	MO	1/8-1/4	32	7	1645 888+	M	PG	Yes	MO	2	32	7
1645 829⑤	M	O	Yes	MO	1/8-1/4	33	4	1645 889+	M	PG	Yes	MO	2	33	4
1645 830+	M	O	Yes	MO	1/8-1/4	34	6	1645 890	M	PG	Yes	MO	2	34	6
1645 831	M	O	Yes	MO	1/8-1/4	35	6	1645 891	M	PG	Yes	MO	2	35	6
1645 832	M	O	Yes	MO	1/8-1/4	36	4	1645 892	M	PG	Yes	MO	2	36	4
1645 833	M	O	Yes	MO	1/8-1/4	37	5	1645 893	M	PG	Yes	MO	2	37	5
1645 834	M	O	Yes	MO	1/8-1/4	38	6	1645 894	M	PG	Yes	MO	2	38	6
1645 835	M	O	Yes	MO	1/8-1/4	39	4	1645 895+	M	PG	Yes	MO	2	39	4
1645 836+	M	O	Yes	MO	1/8-1/4	42	8	1645 896+	M	PG	Yes	MO	2	42	8
1645 837	M	O	Yes	MO	1/8-1/4	43	9	1645 897	M	PG	Yes	MO	2	43	9
1645 838	M	O	Yes	MO	1/8-1/4	44	6	1645 898	M	PG	Yes	MO	2	44	6
1645 839	M	O	Yes	MO	1/8-1/4	45	7	1645 899	M	PG	Yes	MO	2	45	7
1645 840+	M	PG	Yes	MO	1/8-1/4	24	3	1645 900+	HD	O	Yes	MO	1/8-1/4	24	3
1645 841+	M	PG	Yes	MO	1/8-1/4	25	4	1645 901+	HD	O	Yes	MO	1/8-1/4	25	4
1645 842⑤	M	PG	Yes	MO	1/8-1/4	26	4	1645 902	HD	O	Yes	MO	1/8-1/4	26	4
1645 843⑤	M	PG	Yes	MO	1/8-1/4	27	5	1645 903	HD	O	Yes	MO	1/8-1/4	27	5
1645 844+	M	PG	Yes	MO	1/8-1/4	28	6	1645 904+	HD	O	Yes	MO	1/8-1/4	28	6
1645 845⑤	M	PG	Yes	MO	1/8-1/4	29	7	1645 905+	HD	O	Yes	MO	1/8-1/4	29	7
1645 846⑤	M	PG	Yes	MO	1/8-1/4	30	5	1645 906+	HD	O	Yes	MO	1/8-1/4	30	5
1645 847⑤	M	PG	Yes	MO	1/8-1/4	31	4	1645 907	HD	O	Yes	MO	1/8-1/4	31	4
1645 848+	M	PG	Yes	MO	1/8-1/4	32	7	1645 908+	HD	O	Yes	MO	1/8-1/4	32	7
1645 849⑤	M	PG	Yes	MO	1/8-1/4	33	7	1645 909+	HD	O	Yes	MO	1/8-1/4	33	4
1645 850+	M	PG	Yes	MO	1/8-1/4	34	6	1645 910	HD	O	Yes	MO	1/8-1/4	34	6
1645 851	M	PG	Yes	MO	1/8-1/4	35	6	1645 911	HD	O	Yes	MO	1/8-1/4	35	6
1645 852	M	PG	Yes	MO	1/8-1/4	36	4	1645 912	HD	O	Yes	MO	1/8-1/4	36	4
1645 853	M	PG	Yes	MO	1/8-1/4	37	5	1645 913	HD	O	Yes	MO	1/8-1/4	37	5
1645 854	M	PG	Yes	MO	1/8-1/4	38	6	1645 914	HD	O	Yes	MO	1/8-1/4	38	6
1645 855⑤	M	PG	Yes	MO	1/8-1/4	39	4	1645 915+	HD	O	Yes	MO	1/8-1/4	39	4
1645 856+	M	PG	Yes	MO	1/8-1/4	42	8	1645 916+	HD	O	Yes	MO	1/8-1/4	42	8
1645 857	M	PG	Yes	MO	1/8-1/4	43	9	1645 917	HD	O	Yes	MO	1/8-1/4	43	9
1645 858	M	PG	Yes	MO	1/8-1/4	44	6	1645 918	HD	O	Yes	MO	1/8-1/4	44	6
1645 859	M	PG	Yes	MO	1/8-1/4	45	7	1645 919	HD	O	Yes	MO	1/8-1/4	45	7
1645 860+	M	O	Yes	MO	2	24	3	1645 920+	HD	PG	Yes	MO	1/8-1/4	24	3
1645 861+	M	O	Yes	MO	2	25	4	1645 921+	HD	PG	Yes	MO	1/8-1/4	25	4
1645 862	M	O	Yes	MO	2	26	4	1645 922⑤	HD	PG	Yes	MO	1/8-1/4	26	4
1645 863	M	O	Yes	MO	2	27	5	1645 923	HD	PG	Yes	MO	1/8-1/4	27	5
1645 863+	M	O	Yes	MO	2	28	6	1645 924+	HD	PG	Yes	MO	1/8-1/4	28	6
1645 865+	M	O	Yes	MO	2	29	7	1645 925+	HD	PG	Yes	MO	1/8-1/4	29	7
1645 866+	M	O	Yes	MO	2	30	5	1645 926+	HD	PG	Yes	MO	1/8-1/4	30	5
1645 867	M	O	Yes	MO	2	31	4	1645 927	HD	PG	Yes	MO	1/8-1/4	31	4
1645 868+	M	O	Yes	MO	2	32	7	1645 928+	HD	PG	Yes	MO	1/8-1/4	32	7
1645 869+	M	O	Yes	MO	2	33	4	1645 929+	HD	PG	Yes	MO	1/8-1/4	33	4
1645 870	M	O	Yes	MO	2	34	6	1645 930	HD	PG	Yes	MO	1/8-1/4	34	6
1645 871	M	O	Yes	MO	2	35	6	1645 931	HD	PG	Yes	MO	1/8-1/4	35	6

⑤ Stocked as complete unit. Order as one style only.

+ Stocked as components. Order component styles as listed on Page 14

▲ Refer to tabulations on Pages 2 to 25 inc., DB 34-250.

Instrument and Control Switches
 Listed in DB 34-250

Style Number ⑤ +	Handle			Con- tacts	Panel Thick- ness: in.	Fig. No. ▲	No. of Stages	Style Number ⑤ +	Handle			Con- tacts	Panel Thick- ness: in.	Fig. No. ▲	No. of Stages
Type	Shape	Fixed						Type	Shape	Fixed					
1645 932⑤	HD	PG	Yes	MO	1/8-1/4	36	4	1645 992	HD	PG	Yes	MA	1/8-1/4	107	5
1645 933	HD	PG	Yes	MO	1/8-1/4	37	5	1645 992	HD	R	Yes	MA	1/8-1/4	107	5
1645 934	HD	PG	Yes	MO	1/8-1/4	38	6	1645 994	M	PG	Yes	MO	1/8-1/4	102	4
1645 935+	HD	PG	Yes	MO	1/8-1/4	39	4	1645 995	M	O	Yes	MO	2	102	4
1645 936+	HD	PG	Yes	MO	1/8-1/4	42	8	1645 996	M	PG	Yes	MO	2	102	4
1645 937	HD	PG	Yes	MO	1/8-1/4	43	9	1645 997	HD	O	Yes	MO	1/8-1/4	102	4
1645 938	HD	PG	Yes	MO	1/8-1/4	44	6	1645 998	M	O	Yes	MO	1/8-1/4	103	6
1645 939	HD	PG	Yes	MO	1/8-1/4	45	7	1645 999	M	PG	Yes	MO	1/8-1/4	103	6
1645 940	M	O	Yes	MO	1/8-1/4	46	7	1649 111	M	O	Yes	MO	2	103	6
1645 941	M	O	Yes	MO	1/8-1/4	47	9	1649 112	M	PG	Yes	MO	2	103	6
1645 942	M	O	Yes	MO	1/8-1/2	48	8	1649 113	HD	O	Yes	MO	1/8-1/4	103	6
1645 943	M	O	Yes	MO	1/8-1/4	49	8	1649 114	HD	PG	Yes	MO	1/8-1/4	103	6
1645 944	M	O	Yes	MO	1/8-1/4	50	5	1649 115	M	O	Yes	MO	1/8-1/4	104	5
1645 945	M	PG	Yes	MO	1/8-1/4	46	7	1649 116	M	PG	Yes	MO	1/8-1/4	104	5
1645 946	M	PG	Yes	MO	1/8-1/4	47	9	1649 117	M	O	Yes	MO	2	104	5
1645 947⑤	M	PG	Yes	MO	1/8-1/4	48	8	1649 118	M	PG	Yes	MO	2	104	5
1645 948	M	PG	Yes	MO	1/8-1/4	49	8	1649 119	HD	O	Yes	MO	1/8-1/4	104	5
1645 949	M	PG	Yes	MO	1/8-1/4	50	5	1649 120	HD	PG	Yes	MO	1/8-1/4	104	5
1645 950	M	O	Yes	MO	2	46	7	1649 121	M	O	Yes	MO	1/8-1/4	105	4
1645 951	M	O	Yes	MO	2	47	9	1649 122⑤	M	PG	Yes	MO	1/8-1/4	105	4
1645 952	M	O	Yes	MO	2	48	8	1649 123	M	O	Yes	MO	2	105	4
1645 953	M	O	Yes	MO	2	49	8	1649 124	M	PG	Yes	MO	2	105	4
1645 954	M	O	Yes	MO	2	50	5	1649 125	HD	O	Yes	MO	1/8-1/4	105	4
1645 955	M	PG	Yes	MO	2	46	7	1649 126	HD	PG	Yes	MO	1/8-1/4	105	4
1645 956	M	PG	Yes	MO	2	47	9	1649 127	M	O	Yes	MO	1/8-1/4	107	5
1645 957	M	PG	Yes	MO	2	48	8	1649 128	M	PG	Yes	MO	1/8-1/4	107	5
1645 958	M	PG	Yes	MO	2	49	8	1649 129	M	O	Yes	MO	2	107	5
1645 959	M	PG	Yes	MO	2	50	5	1649 130	M	PG	Yes	MO	2	107	5
1645 960	HD	O	Yes	MO	1/8-1/4	46	7	1649 131	HD	O	Yes	MO	1/8-1/4	107	5
1645 961	HD	O	Yes	MO	1/8-1/4	47	9	1649 132	HD	PG	Yes	MO	1/8-1/4	107	5
1645 962	HD	O	Yes	MO	1/8-1/4	48	8	1649 133	M	O	Yes	MO	1/8-1/4	105	5
1645 963	HD	O	Yes	MO	1/8-1/4	49	8	1649 134	M	PG	Yes	MO	1/8-1/4	106	5
1645 964	HD	O	Yes	MO	1/8-1/4	50	5	1649 135	M	O	Yes	MO	2	106	5
1645 965	HD	PG	Yes	MO	1/8-1/4	46	7	1649 136	M	PG	Yes	MO	2	106	5
1645 966	HD	PG	Yes	MO	1/8-1/4	47	9	1649 137	HD	O	Yes	MO	1/8-1/4	106	5
1645 967	HD	PG	Yes	MO	1/8-1/4	48	8	1649 138	HD	PG	Yes	MO	1/8-1/4	106	5
1645 968	HD	PG	Yes	MO	1/8-1/4	49	8	1649 139	M	O	Yes	MO	1/8-1/4	51	5
1645 969	HD	PG	Yes	MO	1/8-1/4	50	5	1649 140	M	PG	Yes	MO	1/8-1/4	51	5
1645 970	M	O	Yes	MO	2	102	4	1649 141	M	O	Yes	MO	2	51	5
1645 971	M	PG	Yes	MA	2	102	4	1649 142	M	PG	Yes	MO	2	51	5
1645 972	M	R	Yes	MA	2	102	4	1649 143	HD	O	Yes	MO	1/8-1/4	51	5
1645 973	HD	O	Yes	MA	1/8-1/4	102	4	1649 144	HD	PG	Yes	MO	1/8-1/4	51	5
1645 974	HD	R	Yes	MA	1/8-1/4	102	4	1649 145	M	O	Yes	MO	1/8-1/4	52	10
1645 975	M	O	Yes	MA	2	103	6	1649 146⑤	M	PG	Yes	MO	1/8-1/4	52	10
1645 976	M	PG	Yes	MA	2	103	6	1649 147	M	O	Yes	MO	2	52	10
1645 977	M	R	Yes	MA	2	103	6	1649 148	M	PG	Yes	MO	2	52	10
1645 978	HD	O	Yes	MA	1/8-1/4	103	6	1649 149	HD	O	Yes	MO	1/8-1/4	52	10
1645 979	HD	R	Yes	MA	1/8-1/4	103	6	1649 150	HD	PG	Yes	MO	1/8-1/4	52	10
1645 980	M	O	Yes	MA	2	104	5	1649 151	M	O	Yes	MO	1/8-1/4	53	6
1645 981	M	PG	Yes	MA	2	104	5	1649 152	M	PG	Yes	MO	1/8-1/4	53	6
1645 982	M	R	Yes	MA	2	104	5	1649 153	M	O	Yes	MO	2	53	6
1645 983	HD	O	Yes	MA	1/8-1/4	104	5	1649 154	M	PG	Yes	MO	2	53	6
1645 984	HD	R	Yes	MA	1/8-1/4	104	5	1649 155	HD	O	Yes	MO	1/8-1/4	53	6
1645 985	M	O	Yes	MA	1/8-1/4	107	5	1649 156	HD	PG	Yes	MO	1/8-1/4	53	6
1645 986	M	PG	Yes	MA	1/8-1/4	107	5	1649 157	M	O	Yes	MO	1/8-1/4	54	6
1645 987	M	R	Yes	MA	1/8-1/4	107	5	1649 158	M	PG	Yes	MO	1/8-1/4	54	6
1645 988	M	O	Yes	MA	2	107	5	1649 159	M	O	Yes	MO	2	54	6
1645 989	M	PG	Yes	MA	2	107	5	1649 160	M	PG	Yes	MO	2	54	6
1645 990	M	R	Yes	MA	2	107	5	1649 161	HD	O	Yes	MO	1/8-1/4	54	6
1645 991	HD	O	Yes	MA	1/8-1/2	107	5	1649 162	HD	PG	Yes	MO	1/8-1/4	54	6

⑤ Stocked as complete unit. Order as one style only.

+ Stocked as components. Order component styles as listed on Page 14

▲ Refer to tabulations on Pages 2 to 25 inc., DB 34-250.



Instrument and Control Switches
Listed in DB 34-250

Style Number ③ +	Handle			Con- tacts	Panel Thick- ness: in.	Fig. No. ▲	No. of Stages	Style Number ③ +	Handle			Con- tacts	Panel Thick- ness: in.	Fig. No. ▲	No. of Stages
	Type	Shape	Fixed						Type	Shape	Fixed				
1649 169	M	R	Yes	MA	2	108	6	1649 229	HD	O	Yes	MA	1/8-1/4	100	6
1649 170	HD	R	Yes	MA	1/8-1/4	108	6	1649 230	HD	PG	Yes	MA	1/8-1/4	100	6
1649 171	....	....	No	MA	1/8-1/4	108	6	1649 231	HD	R	Yes	MA	1/8-1/4	100	6
1649 172	M	R	Key only		1/8-1/4	....	....	1649 232	M	O	Yes	MA	1/8-1/4	101	4
1649 173	M	R	Key only		2	....	....	1649 233	M	PG	Yes	MA	1/8-1/4	101	4
1649 174	M	PG	Yes	MO	1/8-1/2	⑦	3	1649 234	M	R	Yes	MA	1/8-1/4	101	4
1645 175	HD	R	Key only		1/8-1/4	....	....	1649 235	M	O	Yes	MA	2	101	4
1649 176	M	R	Yes	MA	1/8-1/4	109	2	1649 236	M	PG	Yes	MA	2	101	4
1649 177	M	R	Yes	MA	2	109	2	1649 237	M	R	Yes	MA	2	101	4
1649 178	HD	R	Yes	MA	1/8-1/4	109	2	1649 238	HD	O	Yes	MA	1/8-1/4	101	4
1649 179	....	....	No	MA	1/8-1/4	109	2	1649 239	HD	PG	Yes	MA	1/8-1/4	101	4
1649 180	M	R	Key only		1/8-1/4	....	....	1649 240	HD	R	Yes	MA	1/8-1/4	101	4
1649 181	M	R	Key only		2	....	....	1649 261	M	PG	Yes	MO	1/8-1/4	24	3
1649 182	M	PG	Yes	MO	1/8-1/4	⑦	5	1649 440	HD	PG	Yes	MO	1/8-1/4	55	5
1649 183	RHD	....	Key only		1/8-1/4	....	....	1649 447	M	PG	Yes	MO	2	55	5
1649 184	HD	PG	Yes	MO	1/8-1/4	⑦	4	1718 815	HD	PG	Yes	MA	1/8-1/4	102	4
1649 185	M	R	Yes	MA	2	110	6	1718 999	HD	PG	Yes	MA	1/8-1/4	118	3
1649 186	HD	R	Yes	MA	1/8-1/4	110	6	1735 715	M	PG	Yes	MO	1/8-1/4	55	5
1649 187	....	....	No	MA	1/8-1/4	110	6	1736 221	HD	R	Yes	MA	1/8-1/4	11	6
1649 188	M	R	Key only		1/8-1/4	....	....	1736 222	HD	R	No	MA	1/8-1/4	11	6
1649 189	M	R	Key only		2	....	....	1736 450	M	PG	Yes	MO	1/8-1/4	....	4
1649 190	HD	PG	Yes	MO	1/8-1/4	⑦	8								
1649 191	HD	R	Key only		1/8-1/4	....	....								
1649 192	M	R	Yes	MA	1/8-1/4	112	8								
1649 193	M	R	Yes	MA	2	112	8								
1649 194	HD	R	Yes	MA	1/8-1/4	112	8								
1649 195	....	....	No	MA	1/8-1/4	112	8								
1649 196	M	R	Key only		1/8-1/4	....	....								
1649 197	M	R	Key only		2	....	....								
1649 198	M	R	Key only		2	....	....								
1649 199	HD	R	Key only		1/8-1/4	....	....								
1649 200	M	R	Yes	MA	1/8-1/4	111	3								
1649 201	M	R	Yes	MA	2	111	3								
1649 202	HD	R	Yes	MA	1/8-1/4	111	3								
1649 203	....	....	No	MA	1/8-1/4	111	3								
1649 204	M	R	Key only		1/8-1/4	....	....								
1649 205	M	R	Key only		2	....	....								
1649 206	M	R	Yes	MA	2	19	9								
1649 207	HD	R	Key only		1/8-1/4	....	....								
1649 208	M	R	Key only		2	....	....								
1649 209	M	R	Yes	MA	1/8-1/4	17	6								
1649 210	HD	R	Yes	MA	1/8-1/4	17	6								
1649 211	HD	R	Key only		1/8-1/4	....	....								
1649 212	HD	R	Yes	MA	1/8-1/4	19	9								
1649 213	HD	R	Key only		1/8-1/4	....	....								
1649 214	HD	R	Yes	MA	1/8-1/4	114	11								
1649 215	HD	R	Yes	MA	1/8-1/4	115	11								
1649 216	M	PG	Yes	MA	1/8-1/4	99	4								
1649 217	M	R	Yes	MA	1/8-1/4	99	4								
1649 218	M	O	Yes	MA	2	99	4								
1649 219	M	PG	Yes	MA	2	99	4								
1649 220	M	R	Yes	MA	2	99	4								
1649 221	HD	O	Yes	MA	1/8-1/4	99	4								
1649 222	HD	PG	Yes	MA	1/8-1/4	99	4								
1649 223	HD	R	Yes	MA	1/8-1/4	99	4								
1649 224	M	PG	Yes	MA	1/8-1/4	100	6								
1649 225	M	R	Yes	MA	1/8-1/4	100	6								
1649 226	M	O	Yes	MA	2	100	6								
1649 227	M	PG	Yes	MA	2	100	6								
1649 228	M	R	Yes	MA	2	100	6								

③ Stocked as complete unit. Order as one style only.

+ Stocked as components. Order component styles as listed on Page 14

▲ Refer to tabulations on Pages 2 to 25 inc., DB 34-250.

Removable Key Style Numbers

For Switches Without Handles

Listed on Pages 2 to 12 Incl.

Switch Style Number	Panel Thickness - Inches	Key Style Number (Round Handle With Removable Key)		Switch Style Number	Panel Thickness - Inches	Key Style Number (Round Handle With Removable Key)	
		Heavy Duty+	Modern+			Heavy Duty+	Modern+
1040 747	1/8-1/4	1105 144	1151 533	1534 412	1/8-1/4	1105 145	1151 534
1040 748	1/8-1/4	1105 145	1151 534	1534 413	1/8-1/4	1105 148	1151 536
1040 749	1/8-1/4	1105 146	1151 535	1534 414	1/8-1/4	1105 146	1151 535
1040 750	1/8-1/4	1105 148	1151 536	1534 415	1/8-1/4	1105 148	1151 536
1040 753	1/8-1/4	1105 149	1151 537	1534 416	1/8-1/4	1105 148	1151 536
1040 755	1/8-1/4	1105 151	1151 539	1534 418	1/8-1/4	1105 156-(R)	1151 543-(R)
1040 758	1/8-1/4	1105 152	1151 540	1534 418	1/8-1/4	1105 157-(I)	1124 232-(I)
1040 759	1/8-1/4	1105 153	1151 541	1534 419	1/8-1/4	1105 154-(R)	1151 542-(R)
1040 760	1/8-1/4	1105 154-(R)	1151 542-(R)	1534 419	1/8-1/4	1105 155-(I)	1151 505-(I)
1040 760	1/8-1/4	1105 155-(I)	1151 505-(I)	1534 423	1/8-1/4	1105 152	1151 540
1040 761	1/8-1/4	1105 156-(R)	1151 543-(R)	1534 424	1/8-1/4	1105 147	1151 544
1040 761	1/8-1/4	1105 157-(I)	1124 232-(I)	1534 425	1/8-1/4	1105 145	1151 534
1040 762	1/8-1/4	1105 147	1151 544	1534 426	1/8-1/4	1105 148	1151 536
1105 390	1/8-1/4	1105 391	1173 297	1534 426	1/8-1/4	.....	1176 904
1124 114	1/8-1/4	1105 153	.....	1534 427	1/8-1/4	1105 146	1151 535
1170 858	1/8-1/4	1105 150	1151 538	1534 428	1/8-1/4	1105 149	1151 537
1170 859	1/8-1/4	1105 151	1151 539	1649 171	1/8-1/4	.....	1649 172
1176 900	1/8-1/4	.....	1176 901	1649 171	2	.....	1649 173
1176 903	1/8-1/4	1649 213	1176 904	1649 171	1/8-1/4	1649 175	.....
1251 547	1/8-1/4	1105 151	1151 539	1649 179	1/8-1/4	.....	1649 180
1481 737	1/8-1/4	.....	1649 208	1649 179	2	.....	1649 181
1481 737	1/8-1/4	1649 211	1176 901	1649 179	1/8-1/4	1649 183	.....
1481 738	1/8-1/4	1649 213	1176 904	1649 187	1/8-1/4	.....	1649 188
1481 738	2	.....	1649 198	1649 187	2	.....	1649 189
1533 998	1/8-1/4	1105 145	1151 534	1649 187	1/8-1/4	1649 191	.....
1533 999	1/8-1/4	1105 148	1151 536	1649 195	1/8-1/4	.....	1649 196
1534 403	1/8-1/4	1105 148	1151 536	1649 195	2	.....	1649 197
1534 404	1/8-1/4	1105 150	1151 538	1649 195	1/8-1/4	1649 199	.....
1534 405	1/8-1/4	1105 146	1151 535	1649 203	1/8-1/4	.....	1649 204
1534 406	1/8-1/4	1105 145	1151 534	1649 203	2	.....	1649 205
1534 407	1/8-1/4	1105 148	1151 536	1649 203	1/8-1/4	1649 207	.....
1534 408	1/8-1/4	1105 150	1151 538	1736 222	1/8-1/4	1105 148	1151 536
1534 409	1/8-1/4	1105 146	1151 535				
1534 410	1/8-1/4	1105 150	1151 538				
1534 411	1/8-1/4	1105 146	1151 535				

(R) - Running Key.

(I) - Incoming Key.

+ Keys with round handles only. Oval or pistol grip handles can be supplied on request.



Additions and Modifications^①

Fixed type handles – Sold separately – Any shape
Tumble Pin Key Locks (including two keys)
Padlocking Device
Covers – Protective – Polyethylene – 1 to 10 stages
Enclosures:
 Dripproof – surface/bulkhead mtg.
 Dripproof – Panel mounting
 Explosion Proof – Weatherproof
 Dustproof – Terminals exposed
Gears designs: Common handle
 2 units
 3-4 units
Ninety degree (90°) bevel geared (for single or geared units)
Mounting other than vertical upright
Combination maintained and momentary
More than one pull-out position
Spring return from pull-out
Pull-out or push-in from neutral
Solenoid Locking Device
Watertight packing gland
Fungusproofing
Ratchet assembly for uni-directional rotation
Toggle spring device for positive positioning (2 position switches only)

Mounting Screws

For mounting Type W switches on panels, a set of three flathead steel machine screws of various lengths is required, depending on the type of handle and panel thickness.

Switches, having fixed handles of the modern type for $\frac{1}{8}$ and $\frac{1}{4}$ inch thick panel mounting, have a short shaft and cannot be used on thicker panels. Switches of the same type, except for 2-inch panel mounting, have a long shaft and can be mounted on $1\frac{1}{2}$ or 1 inch thick panels by selecting the correct tapped hole in the shaft and the proper style panel mounting screws from the table below.

Switches with heavy duty fixed handles have a long shaft and can be mounted on 2, $1\frac{1}{2}$, 1, $\frac{1}{4}$, or $\frac{1}{8}$ inch thick panels by selecting proper tapped hole in shaft and proper style panel mounting screws from the table below.

Switches with removable key handles of the modern type for $\frac{1}{8}$ and $\frac{1}{4}$ inch thick panel mounting use a key with a short shaft. For 1, $1\frac{1}{2}$, or 2 inch thick panels, the key has a long shaft.

Switches with removable key handles of the heavy duty type use a key with a long shaft and can be used on panels having thicknesses of $\frac{1}{8}$, $\frac{1}{4}$, 1, $1\frac{1}{2}$, or 2 inches. The short shafts cannot be used on panels in excess of $\frac{1}{4}$ inch thickness. The long shafts can be used for the indicated thickness by sliding the handle along the shaft and fastening to the correct tapped hole in the shaft. The proper panel mounting screws for the switch, using a removable key handle, can be selected from the table below under Instrument Switches.

Panel Thickness (inches)

Instrument Switches (Maintained Contacts)	Control Switches (Spring Return Contacts)	Screw Size	Screw Style (Set of 3)
...	$\frac{1}{8}$ or $\frac{1}{4}$	.25-20x.62	519479
$\frac{1}{4}$ or $\frac{1}{2}$	...	.25-20x1.25	555658
...	1	.25-20x1.5	1735870
1	$1\frac{1}{2}$	.25-20x2.0	1735871
$1\frac{1}{2}$	2	.25-20x2.5	1735872
2	...	.25-20x3.0	1332469

Note: Mounting on $1\frac{1}{4}$ inch panel will require two adapter plates $\frac{1}{8}$ inch thick (S# 1245243). Use same mounting screws for $1\frac{1}{4}$ inch panel as $1\frac{1}{2}$ inch panel.

^① Refer to Westinghouse.

Type W Switches

Breakdown of stock switches which cannot be identified in the field by complete switch style.
(This page for identification purposes only.)

Catalog Style	Switch w/o Handle	Handle◆	Mounting Screws (Set of Three)	Catalog Style	Switch w/o Handle	Handle◆	Mounting Screws (Set of Three)	Catalog Style	Switch w/o Handle	Handle◆	Mounting Screws (Set of Three)
1040 745	1802 467	1481 423	.....	1530 103	300P520G01	1481 410	1332 469	1645 759	300P543G01	1481 412	1735 872
1040 763	1802 468	1481 420	.....	1530 104	300P520G01	1481 408	1332 469	1645 760	300P543G01	1481 413	1735 872
1151 523	1802 467	1481 411	1323 469	1530 105	300P520G01	1481 421	.....	1645 761	300P543G01	1481 411	1735 872
1151 529	1802 468	1481 408	1332 469	1530 106	300P520G01	1481 422	.....	1645 762	300P543G01	1481 424	.....
1530 000	1802 471	1481 409	.....	1530 107	300P520G01	1481 420	.....	1645 763	300P543G01	1481 425	.....
1530 001	1802 471	1481 410	.....	1530 108	1802 474	1481 409	.....	1645 764	300P543G01	1481 423	.....
1530 002	1802 471	1481 408	.....	1530 109	1802 474	1481 410	.....	1645 777	300P544G01	1481 412	1735 872
1530 003	1802 490	1481 409	1332 469	1530 110	1802 474	1481 408	.....	1645 778	300P544G01	1481 413	1735 872
1530 004	1802 490	1481 410	1323 469	1530 117	1802 500	1481 409	.....	1645 779	300P544G01	1481 411	1735 872
1530 005	1802 490	1481 408	1332 469	1530 118	1802 500	1481 410	.....	1645 780	300P544G01	1481 424	.....
1530 006	1802 490	1481 421	.....	1530 119	1802 500	1481 408	.....	1645 781	300P544G01	1481 425	.....
1530 007	1802 490	1481 422	.....	1530 126	300P521G01	1481 409	.....	1645 782	300P544G01	1481 423	.....
1530 008	1802 490	1481 420	.....	1530 127	300P521G01	1481 410	.....	1645 820	1802 478	1481 418	.....
1530 009	1802 491	1481 409	.....	1530 128	300P521G01	1481 408	.....	1645 821	1802 480	1481 418	.....
1530 010	1802 491	1481 410	.....	1530 135	1802 475	1481 409	.....	1645 824	1802 482	1481 418	.....
1530 011	1802 491	1481 408	.....	1530 136	1802 475	1481 410	.....	1645 828	1802 485	1481 418	.....
1530 012	1802 492	1481 409	1332 469	1530 137	1802 475	1481 408	.....	1645 830	1802 488	1481 412	.....
1530 013	1802 492	1481 410	1332 469	1530 144	1802 501	1481 409	.....	1645 836	1802 510	1481 418	.....
1530 014	1802 492	1481 408	1332 469	1520 145	1802 501	1481 410	.....	1645 840	1802 478	1481 419	.....
1530 015	1802 492	1481 421	.....	1530 146	1802 501	1481 408	.....	1645 841	1802 480	1481 419	.....
1530 016	1802 492	1481 422	.....	1530 147	1802 476	1481 409	1332 469	1645 844	1802 482	1481 419	.....
1530 017	1802 492	1481 420	.....	1530 148	1802 476	1481 410	1332 469	1645 848	1802 485	1481 419	.....
1530 018	1802 493	1481 409	.....	1530 149	1802 476	1481 408	1332 469	1645 850	1802 488	1481 413	.....
1530 019	1802 493	1481 410	.....	1530 150	1802 476	1481 421	.....	1645 856	1802 510	1481 419	.....
1530 020	1802 493	1481 408	.....	1530 151	1802 476	1481 422	.....	1645 860	1802 479	1481 418	1735 872
1530 045	1802 494	1481 409	.....	1530 152	1802 476	1481 420	.....	1645 861	1802 481	1481 418	1735 872
1530 046	1802 494	1481 410	.....	1530 153	1802 502	1481 409	.....	1645 864	1802 483	1481 418	1735 872
1530 047	1802 494	1481 408	.....	1530 154	1802 502	1481 410	.....	1645 865	1802 509	1481 418	1735 872
1530 054	1802 495	1481 409	.....	1530 155	1802 502	1481 408	.....	1645 866	1802 484	1481 418	1735 872
1530 055	1802 495	1481 410	.....	1530 180	1802 504	1481 409	.....	1645 868	1802 486	1481 418	1735 872
1530 056	1802 495	1481 408	.....	1530 181	1802 504	1481 410	.....	1645 869	1802 487	1481 412	1735 872
1530 057	1802 472	1481 409	1332 469	1530 182	1802 504	1481 408	.....	1645 875	1802 489	1481 412	1735 872
1530 058	1802 472	1481 410	1332 469	1530 327	300P534G01	1481 408	1332 469	1645 876	1802 498	1481 418	1735 872
1530 059	1802 472	1481 408	1332 469	1530 328	300P534G01	1481 410	1332 469	1645 880	1802 479	1481 419	1735 872
1530 060	1802 472	1481 421	.....	1530 329	300P534G01	1481 408	1332 469	1645 881	1802 481	1481 419	1735 872
1530 061	1802 472	1481 422	.....	1530 330	300P534G01	1481 421	.....	1645 884	1802 483	1481 419	1735 872
1530 062	1802 472	1481 420	.....	1530 331	300P534G01	1481 422	.....	1645 885	1802 509	1481 419	1735 872
1530 063	1802 496	1481 409	.....	1530 332	300P534G01	1481 420	.....	1645 886	1802 484	1481 419	1735 872
1530 064	1802 496	1481 410	.....	1581 564	1802 505	1481 409	.....	1645 888	1802 486	1481 419	1735 872
1530 065	1802 496	1481 408	.....	1581 565	1802 505	1481 410	.....	1645 889	1802 487	1481 413	1735 872
1530 072	300P518G01	1481 409	.....	1581 566	1802 505	1481 408	.....	1645 895	1802 489	1481 413	1735 872
1530 073	300P418G01	1481 410	.....	1581 573	1802 506	1481 409	.....	1645 896	1802 498	1481 419	1735 872
1530 074	300P518G01	1481 408	.....	1581 574	1802 506	1481 410	.....	1645 900	1802 479	1481 430	.....
1530 075	300P519G01	1481 409	1332 469	1581 575	1802 506	1481 408	.....	1645 901	1802 481	1481 430	.....
1530 076	300P519G01	1481 410	1332 469	1645 684	1802 477	1481 412	.....	1645 904	1802 483	1481 430	.....
1530 077	300P519G01	1481 408	1332 469	1645 685	1802 477	1481 413	.....	1645 905	1802 509	1481 430	.....
1530 078	300P519G01	1481 421	.....	1645 686	1802 477	1481 411	.....	1645 906	1802 484	1481 430	.....
1530 079	300P519G01	1481 422	.....	1645 687	1802 507	1481 412	1735 872	1645 908	1802 486	1481 430	.....
1530 080	300P519G01	1481 420	.....	1645 688	1802 507	1481 413	1735 872	1645 909	1802 487	1481 424	.....
1530 090	1802 497	1481 409	.....	1645 689	1802 507	1481 411	1735 872	1645 915	1802 489	1481 424	.....
1530 091	1802 497	1481 410	.....	1645 690	1802 507	1481 424	.....	1645 916	1802 498	1481 430	.....
1530 092	1802 497	1481 408	.....	1645 691	1802 507	1481 425	.....	1645 920	1802 479	1482 075	.....
1530 093	1802 499	1481 409	1332 469	1645 692	1802 507	1481 423	.....	1645 921	1802 481	1482 075	.....
1530 094	1802 499	1481 410	1332 469	1645 693	1802 508	1481 412	.....	1645 924	1802 483	1482 075	.....
1530 095	1802 499	1481 408	1332 469	1645 694	1802 508	1481 413	.....	1645 925	1802 509	1482 075	.....
1530 096	1802 499	1481 421	.....	1645 695	1802 508	1481 411	.....	1645 926	1802 484	1482 075	.....
1530 097	1802 499	1481 422	.....	1645 732	300P541G01	1481 412	1735 872	1645 928	1802 486	1482 075	.....
1530 098	1802 499	1481 420	.....	1645 733	300P541G01	1481 413	1735 872	1645 929	1802 487	1481 425	.....
1530 099	1802 473	1481 409	.....	1645 734	300P541G01	1481 411	1735 872	1645 935	1802 489	1481 245	.....
1530 100	1802 473	1481 410	.....	1645 735	300P541G01	1481 424	.....	1645 936	1802 498	1482 075	.....
1530 101	1802 473	1481 408	.....	1645 736	300P541G01	1481 425	.....				
1530 102	300P520G01	1481 409	1332 469	1645 737	300P541G01	1481 423					

◆ Includes set screw and handle nameplate when required.



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