

9001B Standard Duty Control Stations

Table 19.338: Control Stations

No. of Buttons	Nameplate Markings and Features	Contact Symbol [8]	Surface Mounting NEMA1	Stainless Steel Flush Plate [9]	Watertight and Dusttight NEMA4	For Hazardous Locations NEMA 7 & 9 [10]
			Type [11]	Type [11]	Type [11]	Type [11]
1	Start	1	BG101	BF101	BW146	BR101
	Stop	3	BG102	BF102	BW147	—
	Stop (Mushroom Button)	3	BG103	—	BW151	BR103
	Stop (Lockout)	3	BG104	—	BW148	BR104
	Universal (w/o legend insert)	16	BG107	BF107	BW159	BR107
	Off-On (Selector Switch)	19	BG111	—	—	—
	Hand-Off-Auto (Selector Switch)	17	BG112	—	—	—
2	Universal Selector Switch (w/o legend insert)	19 or 17	BG114	—	—	—
	Start-Stop	145	BG201	BF201	BW240	BR204
	Start-Stop (for latching Applications)	146	BG202	—	BW252	BR202
	Start-Stop (Mushroom on Stop)	145	BG203	—	BW250	BR203
	Start-Stop (Lockout on Stop)	145	BG204	—	BW241	BR204
	Start-Stop (Mushroom on both)	145	BG205	—	BW246	BR205
	Forward-Reverse	146	BG206	—	BW242	—
	Open-Close	146	BG207	—	BW244	—
	Up-Down	146	BG208	BF208	BW243	BR208
	Raise-Lower	146	BG209	—	BW253	—
	On-Off	145	BG210	BF210	BW245	—
	On-Off	146	BG211	BF211	BW254	—
	Universal (w/o legend inserts)	25	BG214	—	BW260	BR214
	Start-Stop (Maintained Contact)	10	BG215	BF215	BW255	BR215
	On-Off (Maintained Contact)	10	BG216	BF216	BW256	BR216
	Universal (Maintained contact w/o legend inserts)	10	BG218	—	—	BR218
3	Fast-Slow-Stop	109	BG301	—	—	—
	Forward-Reverse-Stop	109	BG302	—	—	—
	Open-Close-Stop	109	BG303	BF303	—	—
	Raise-Lower-Stop	109	BG304	—	—	—
	Up-Down-Stop	109	BG305	BF305	—	—
	Start-Jog-Stop	109	BG316	—	—	—
	Universal (w/o legend inserts)	8	BG307	—	—	—
	Start-Stop, Red Pilot Light: 120Vac/dc	145 & 121	BG308	BF308	—	—

Table 19.339: Accessories

Description	Color	Type [11]
Mushroom Caps for NEMA 1	Red	B301
Mushroom Caps for NEMA 4	Red	B303
Lockout Kit for NEMA 1	—	B321
Pilot Light Lenses, NEMA 1 Surface Mount	Red	B331
Pilot Light Lenses, NEMA 1 Surface Mount	Green	B332
Pilot Light Lenses, NEMA 1 Flush Mount	Red	B341
Pilot Light Lenses, NEMA 1 Flush Mount	Green	B342
Replacement Covers for BW240 [12]	—	BWD219
Replacement Covers for BW241 [13][12]	—	BWD220
Replacement Covers for BW242-BW260 [12]	—	BWD219

Table 19.340: Interchangeable Push Button Legend Inserts

Marking	For NEMA 1 Surface Mount [11]	For NEMA 4 or 7/9 Lever Type [11]	For NEMA 4 Round Button [11]	For NEMA4 Mushroom Button [11]
Start	B101	B161	B259	B282
Stop	B102	B162	B260	B283
Fast	B103	—	—	—
Slow	B104	—	—	—
Forward	B105	—	B255	—
Reverse	B106	—	B256	—
Open	B107	—	B263	—
Close	B108	—	B264	—
Raise	B109	—	B261	—
Lower	B110	—	B262	—
Up	B111	—	B253	B276
Down	B112	—	B254	B277
On	B115	B175	B257	—
Off	B116	B176	B258	—
Hand	B117	—	B265	—
Auto	B118	—	B266	—
Jog	B119	—	—	—
Blank (Black)	B129	B189	B251	B251
Blank (Red)	B129R	B189R	B252	B252

For Replacement Interiors, see Replacement Interiors for Type B Standard Duty Push Button Stations, page 19-111.

For Ratings, see Electrical Contact Ratings, page 19-111.

[8] See Replacement Interiors For Type B Standard Duty Push Button Stations, page 19-111.

[9] Uses standard 2.0 or 2.13 in. deep wall boxes, single gang for Types BF1 and BF2, two gang for Type BF3

[10] Also rated for Class I, Division I and II, Groups B, C, or D; Class II, Division I and II, Groups E, F, or G

[11] When ordering, add prefix 9001 to the catalog number.

[12] Replacement case/covers are not available for Type BR devices.

[13] Includes factory installed lockout on the cover.

Type BW Pendant Stations and Accessories

This pre-assembled, two-button station now comes complete with internal and external strain relief. Oversized finger grips on the rear of the enclosure make it easy to grip and operate.

- Well suited for standard hoist applications
- Push button legend inserts
- Field-installable mushroom button
- Full cover gasket, to exclude harmful contaminants

Table 19.382: BW90 and BW100 Pendant Stations – with cord connector and strain relief

Description	Legend Insert Markings	Mechanical Interlock	Enclosure Color			Contact Symbol	Replacement Interior [8]	
			Yellow	Black	Red		9001 Type	Contact Symbol
	Single Speed	Up-Down	BW92Y	BW92B	BW92R	146	BOC368	146
		Forward-Reverse	BW93Y	BW93B	BW93R	146	BOC368	146
		On-Off [9]	BW94Y	BW94B	BW94R	10	BOC358	147
		Start-Stop	BW95Y	BW95B	BW95R	145	BOC359	25
		Start-Stop [9]	BW96Y	BW96B	BW96R	10	BOC358	147
		On-Off [9]	BW97Y	BW97B	BW97R	146	BOC359	25
	Two Speed	Up-Down	BW98Y	BW98B	—	100	—	—
		without Inserts	BW90YU	BW90BU	BW90RU	147	BOC366	25
		without Inserts	BW91YU	BW91BU	BW91RU	25	BOC359	25
		without Inserts [9]	BW94YU	BW94BU	BW94RU	147	BOC358	147
		without Inserts	BW100YU	BW100BU	BW100RU	150	BOC367	150
		Up-Down	BW102Y	BW102B	BW102R	150	BOC367	150

Table 19.383: Hanger Brackets

Description	Form
 Y236	External Bracket (cannot be field installed)

Table 19.384: Strain Relief Replacement

Description	Type
 BWSR	Strain Relief Replacement

Table 19.385: Interchangeable Legend Inserts for Type BW Pendant Stations [10]

Marking	Type
Start	B259
Stop	B260
Forward	B255
Reverse	B256
Open	B263
Close	B264
Raise	B261
Lower	B262
Up	B253
Down	B254
On	B257
Off	B258
Blank - black	B251
Blank - red	B252

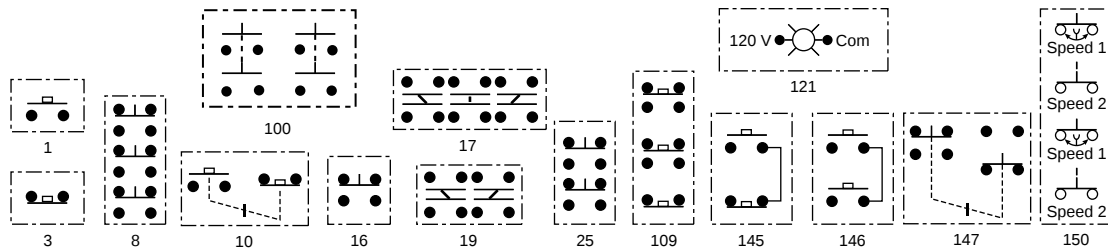
Table 19.386: Replacement Enclosures

Description	Color	Type
Box & Cover with 4 screws	Yellow	BWRY
	Red	BWRR
	Black	BWRB

Table 19.387: Electrical Contact Ratings [11]

AC—NEMA B600							DC—NEMA P600		
Volts	Inductive 35% Power Factor					Resistive 75% Power Factor	Volts	Inductive and Resistive	
	Make		Break		Continuous Carrying Amperes	Make, Break and Continuous Carrying Amperes		Make and Break Amperes	Continuous Carrying Amperes
	A	VA	A	VA					
120	30.5	3600	3.75	360	5	5	120	1.1	5
240	15	3600	1.5	360	5	5	240	0.55	5
480	7.5	3600	.75	360	5	5	600	0.2	5
600	6	3600	.6	360	5	5			

Contact Symbols (Type BW Pendant Stations)



[8] Includes gasket

[9] Maintained Contact

[10] Order must specify a quantity of 10 or multiples of 10.

[11] OSHA Regulation, Section 1910.70, Overhead and Gantry Cranes, limits the voltage of pendant push buttons to 150 Vac or 300 Vdc.