

CURRENT RATING

OF

HAVELL'S MINIATURE CIRCUIT BREAKER



SINGLE PHASE			THREE PHASE		
MOTOR KW	HP	MCB RATING	MOTOR KW	HP	MCB RATING 'G'
0.18	0.25	2A	0.75	1	2A
0.37	0.50	4A	1.1	1.5	2.5A
0.54	0.75	5A	1.5	2	3.5A
0.57	1.00	6A	2.2	3	5A
1.1	1.5	10A	3	4	6A
1.5	2	12A	3.7	5	8A
2.2	3	16A	4	5.5	10A
3.7	5	25A	5	7.5	12A
5.5	7.5	40A	7.5	10	16A
			10	13.5	20A
			11	15	25A
			15	20	32A
			22	30	35A
			25	35	40A

The selection chart for Havell's 'G' Series MCB and Plug & Socket for Air-conditioners :

A/C (Tonne)	CURRENT	PLUG & SOCKET	MCB RATING 'G'
1.0	7.5 - 10A	10A	10A
1.5	12.2 - 16A	20A	16A
2.0	15.8 - 17A	20A	20A

AUTHORISED DEALER :

HIND ELECTRIC & TRADING CO.

22, RABINDRA SARANI, CALCUTTA - 700 073,

PHONES : 27-6264 / 7356 GRAM : HIND LIGHT

TECHNICAL DATA

FOR

TUBULAR STEEL POLES

TABLE - 2 SWAGED POLES MADE FROM STEEL OF

Designation	Over All Length L	Planting Depth	Load Applied From Top At A Distance of	Height Above Ground H	Length of Sections			Outside Diameter And Thickiif of Section		
					Bottom h ₃	Mibble h ₂	Top h ₁	Bottom	Midle	Top
					6	7	8	9	10	11
1	2	3	4	5	(m)	(m)	(m)	(mm)	(mm)	(mm)
410 SP-1	7.00	1.25	0.30	5.75	4.00	1.50	1.50	114.3 x 3.65	88.9 x 3.25	76.1 x 3.25
410 SP-2	7.00	1.25	0.30	5.75	4.00	1.50	1.50	114.3 x 4.50	88.9 x 4.05	76.1 x 3.25
410 SP-3	7.00	1.25	0.30	5.75	4.00	1.50	1.50	114.3 x 5.40	88.9 x 4.85	76.1 x 3.25
410 SP-4	7.50	1.25	0.30	6.25	4.50	1.50	1.50	114.3 x 3.65	88.9 x 3.25	76.1 x 3.25
410 SP-5	7.50	1.25	0.30	6.25	4.50	1.50	1.50	114.3 x 4.50	88.9 x 4.05	76.1 x 3.25
410 SP-6	7.50	1.25	0.30	6.25	4.50	1.50	1.50	114.3 x 5.40	88.9 x 4.85	76.1 x 3.25
410 SP-7	7.50	1.25	0.30	6.25	4.50	1.50	1.50	139.7 x 4.50	114.3 x 3.65	88.9 x 3.25
410 SP-8	7.50	1.25	0.30	6.25	4.50	1.50	1.50	139.7 x 4.85	114.3 x 3.65	88.9 x 3.25
410 SP-9	7.50	1.25	0.30	6.25	4.50	1.50	1.50	139.7 x 5.40	114.3 x 3.65	88.9 x 3.25
410 SP-10	8.00	1.50	0.30	6.50	4.50	1.75	1.75	114.3 x 3.65	88.9 x 3.25	76.1 x 3.25
410 SP-11	8.00	1.50	0.30	6.50	4.50	1.75	1.75	114.3 x 4.50	88.9 x 4.05	76.1 x 3.25
410 SP-12	8.00	1.50	0.30	6.50	4.50	1.75	1.75	114.3 x 5.40	88.9 x 4.85	76.1 x 3.25
410 SP-13	8.00	1.50	0.30	6.50	4.50	1.75	1.75	139.7 x 4.50	114.3 x 3.65	88.9 x 3.25
410 SP-14	8.00	1.50	0.30	6.50	4.50	1.75	1.75	139.7 x 4.85	114.3 x 4.50	88.9 x 3.25
410 SP-15	8.00	1.50	0.30	6.50	4.50	1.75	1.75	139.7 x 4.50	114.3 x 4.50	88.9 x 3.25
410 SP-16	8.50	1.50	0.30	7.00	5.00	1.75	1.75	114.3 x 3.65	88.9 x 3.25	76.1 x 3.25
410 SP-17	8.50	1.50	0.30	7.00	5.00	1.75	1.75	114.3 x 4.50	88.9 x 4.05	76.1 x 3.25
410 SP-18	8.50	1.50	0.30	7.00	5.00	1.75	1.75	114.3 x 5.40	88.9 x 4.85	76.1 x 3.25
410 SP-19	8.50	1.50	0.30	7.00	5.00	1.75	1.75	139.7 x 4.50	114.3 x 3.65	88.9 x 3.25
410 SP-20	8.50	1.50	0.30	7.00	5.00	1.75	1.75	139.7 x 4.85	114.3 x 3.65	88.9 x 3.25
410 SP-21	8.50	1.50	0.30	7.00	5.00	1.75	1.75	139.7 x 5.40	114.3 x 4.50	88.9 x 3.25
410 SP-22	8.50	1.50	0.30	7.00	5.00	1.75	1.75	165.1 x 4.50	139.7 x 4.50	114.3 x 3.65
410 SP-23	8.50	1.50	0.30	7.00	5.00	1.75	1.75	165.1 x 4.85	139.7 x 4.50	114.3 x 3.65
410 SP-24	8.50	1.50	0.30	7.00	5.00	1.75	1.75	165.1 x 5.40	139.7 x 4.50	114.3 x 3.65
410 SP-25	9.00	1.50	0.30	7.50	5.00	2.00	2.00	114.3 x 3.65	88.9 x 3.25	76.1 x 3.25
410 SP-26	9.00	1.50	0.30	7.50	5.00	2.00	2.00	114.3 x 4.50	88.9 x 4.05	76.1 x 3.25
410 SP-27	9.00	1.50	0.30	7.50	5.00	2.00	2.00	114.3 x 5.40	88.9 x 4.85	76.1 x 3.25

Gram : HEAVY POLES

Steel Poles Corporation

(O) 25-5470

(R) 241-2575



FABRICATORS & ELECTRICAL ENGINEERS

Manufacturers Of : TUBULAR STEEL POLES, BASE PLATES, TUBES ETC.

Specialist In : LATEST DESIGN STREET LIGHTING BENDING POLES

21, RABINDRA SARANI, 1ST FLOOR, ROOM NO. 115, CALCUTTA- 700 073

TECHNICAL DATA

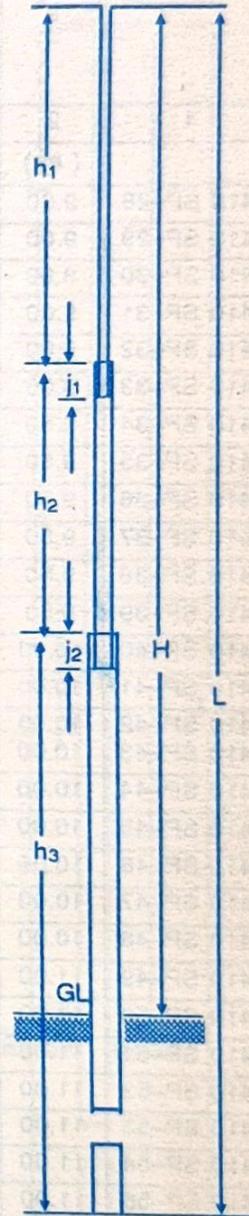
FOR

TUBULAR STEEL POLES

ULTIMATE TENSILE STRENGTH 410 MPa (42 kgf. / mm²)

IS : 2713 (Part-I to II) 1980

Approx Weight of Pole	Breaking Load	Crippling Load	Working Load		Load for Permanent Set not Exceeding 13mm	Load for Temporary Deflection of 157.5mm
			Col 14 2	Col 13 2.5		
12	13	14	15	16	17	18
(kg)	N (kgf)	N (kgf)	N (kgf)	N (kgf)	N (kgf)	N (kgf)
62	2570 (262)	1820 (186)	912 (93)	1030 (105)	1245 (127)	785 (80)
73	3100 (316)	2240 (224)	1100 (112)	1240 (126)	1510 (154)	941 (96)
85	3630 (370)	2580 (263)	1280 (131)	1450 (148)	1760 (180)	1090 (111)
67	2350 (240)	1670 (170)	1320 (135)	941 (96)	1150 (117)	627 (64)
79	2760 (281)	1960 (200)	981 (100)	1100 (112)	1340 (137)	745 (76)
93	3320 (339)	2360 (241)	1180 (120)	1330 (136)	1620 (165)	873 (89)
97	4330 (442)	3080 (314)	1540 (157)	1740 (177)	2110 (215)	1400 (143)
103	4630 (472)	3280 (335)	1650 (168)	1850 (189)	2250 (229)	1480 (151)
110	5100 (520)	3620 (369)	1810 (185)	2040 (208)	2480 (253)	1600 (163)
70	2260 (230)	1600 (163)	804 (82)	902 (92)	1100 (112)	520 (53)
83	2730 (278)	1930 (197)	971 (99)	1090 (111)	1320 (135)	618 (63)
97	3190 (325)	2270 (231)	1130 (115)	1270 (130)	1550 (158)	725 (74)
101	4160 (424)	2950 (301)	1480 (151)	1670 (170)	2020 (206)	1180 (120)
111	4440 (453)	3160 (322)	1580 (161)	1770 (181)	2160 (220)	1280 (131)
119	4890 (499)	3470 (354)	1740 (177)	1960 (200)	2380 (243)	1380 (140)
75	2090 (213)	1480 (151)	745 (76)	834 (85)	1020 (104)	432 (44)
89	2520 (257)	1790 (182)	893 (91)	1010 (103)	1230 (125)	510 (52)
104	2950 (301)	2100 (214)	1050 (107)	1180 (120)	1430 (146)	598 (61)S
109	3844 (392)	2730 (278)	1360 (139)	1540 (157)	1800 (191)	961 (98)
115	4110 (419)	2910 (297)	1460 (149)	1650 (168)	2000 (204)	1010 (103)
129	4530 (462)	3220 (328)	1620 (164)	1810 (185)	2210 (225)	1130 (115)
141	5450 (556)	3870 (395)	1930 (197)	2180 (222)	2650 (270)	1730 (176)
148	5840 (596)	4150 (423)	2080 (212)	2330 (238)	2840 (290)	1820 (186)
158	6450 (658)	4580 (467)	2340 (234)	2579 (263)	3140 (320)	1970 (201)
78	1940 (198)	1380 (141)	686 (70)	775 (79)	941 (96)	333 (34)
92	2340 (239)	1670 (170)	834 (85)	941 (96)	1140 (116)	402 (41)
108	2750 (280)	1950 (199)	971 (99)	1100 (112)	1330 (136)	461 (47)



Gram : HEAVY POLES

Steel Poles Corporation

© (O) 25-5470 (R) 241-2575

Our Approved Customers:

- ☆ C. P. W. D ☆ C. M. C. ☆ P. W. D. ☆ M. E. S. ☆ CESC Ltd.
- ☆ Durgapur Steel Plant ☆ Alloy Steels Plants ☆ Bokora Steel Plants
- ☆ Rourkela Steel Plants ☆ MECON