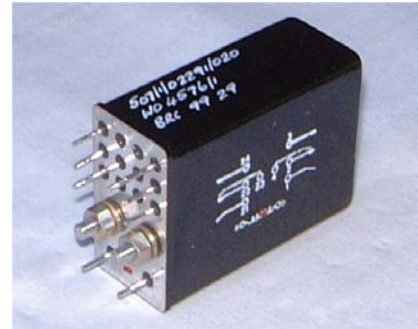


The CB Type Relay in its sealed version is fully approved to DEF 5165 Style SM5M.
In its unsealed version it is fully approved to RCS166 style SM4C
It replaces obsolete style SM5J



Key Features

- Available in normal duty or heavy duty versions.
- Twinned contacts on normal duty.
- Plug in facilities.
- Socket available for plug-in.

Type CB

Specification

Electrical

Bounce Time	10 ms
Switching Rate	Capable of 500 ops/minute
Maximum Permissible Coil Dissipation	1.5W at 70 °C 1.38W at 100 °C
Voltage Rating (Coil and/or springset to frame)	300 V ac 50 Hz
Dielectric Strength (Between all parts not electrically connected)	1000 V ac at 500 Hz
Insulation Resistance	500MΩ (min) at 500 V dc

Contact Data

See sheet 2

Environmental and Physical

Weight	Unsealed - 85 gram (3 oz) max. Sealed - 137.5 gm (5 oz) max.
Temperature category	-55 °C to +100 °C (-40 °C to +70 °C with transparent dust cover)
Humidity Classification	Unsealed – unclassified to RCS166 Sealed – H1 to RCS11 : 6 climactic damp-heat cycles (accelerated) Duration 16 hours (per cycle) at 55 °C, R.H. 95-100% 84 days tropical exposure
Vibration	To RCS11 – velocity 25.4mm (1in)/s at 10 Hz to 76.2 mm (3in)/s at 60 Hz, then 3 g at 60 Hz to 6.5 g at 150 Hz
Acceleration	To DEF 5165 : 12 g for 8 min.
Bump	B3 to DEF 5165 – 4000 bumps at 40 g.

Dimensions

See sheet 2 for dimensional details

Ordering Information

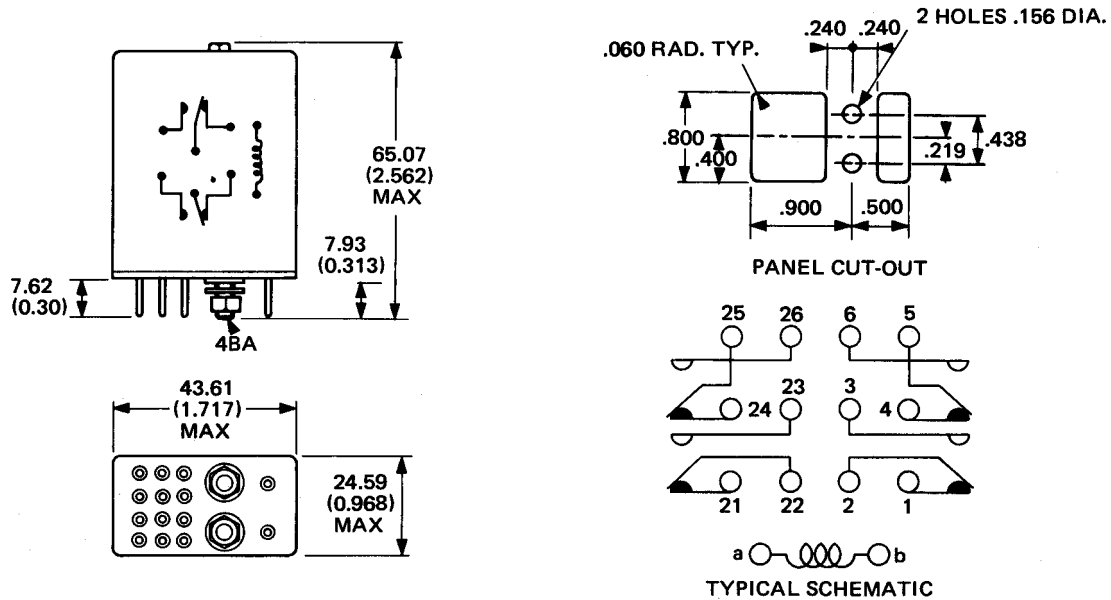
Quote Part Number from Tables on Sheets 3 or 4.

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All dimensions are in millimetres (inches)

Coil Data

Nominal dc Coil Voltage	Nominal Coil Resistance Ω at 15°C $\pm 5\%$	Limit Circuit Current (mA0)		
		(a)	(b)	(c)
1.3	2	310	360	398
6	40	72	85	89
12	180	32	38	39.7
24	670	18	21	21.4
48	2500	10	11	11.5
85	7600	5.3	6	-

- (a) For normal-duty contacts 1C
 (b) For normal-duty contacts 2C: heavy-duty 2M, MB.
 (c) For normal-duty contacts 4C, 2C2K, 4K: heavy-duty 2B2M, 4M

Contact Data

Contact arrangements available (preferred styles)	* Contact Material	Contact ratings (resistive load) and contact life
Normal duty 1C, 2C, 4C, 2C2K, 4K	Palladium	100mA at 300 V dc – 10^7 ops. 1A at 60 V dc – 10^8 ops.
Heavy duty 2M, MB, 2B2M, 4M	Silver Cadmium	4A at 60 V dc – 2×10^5 ops 2A at 300 V dc – 2×10^5 ops

* Contact materials and styles shown are preferred configurations in DEF 5165

Note : For inductive loads an adequate contact protection and spark quenching circuit must be fitted.

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Relay Unsealed Type CB

Part No.	Style Ref.	NATO Stock No.	Coil Volt/Res. V/ Ω	Contact		
				Action	Duty	Material
507/1/02292/054	SM4CN44	5945-99-012-3973	1.3/2	1C	Normal	Palladium
507/1/02292/055	SM4CN45	5945-99-012-3974	6/40	1C	Normal	Palladium
507/1/02292/056	SM4CN46	5945-99-012-3975	12/180	1C	Normal	Palladium
507/1/02292/057	SM4CN47	5945-99-012-3976	24/670	1C	Normal	Palladium
507/1/02292/058	SM4CN48	5945-99-012-3977	48/2500	1C	Normal	Palladium
507/1/02292/059	SM4CN49	5945-99-012-3978	85/7600	1C	Normal	Palladium
507/1/02292/017	SM4CN50	5945-99-012-3979	1.3/2	2C	Normal	Palladium
507/1/02292/018	SM4CN51	5945-99-012-3980	6/40	2C	Normal	Palladium
507/1/02292/019	SM4CN52	5945-99-012-3981	12/180	2C	Normal	Palladium
507/1/02292/020	SM4CN53	5945-99-012-3982	24/670	2C	Normal	Palladium
507/1/02292/021	SM4CN54	5945-99-012-3983	48/2500	2C	Normal	Palladium
507/1/02292/022	SM4CN55	5945-99-012-3984	85/7600	2C	Normal	Palladium
507/1/02292/001	SM4CN56	5945-99-012-3985	1.3/2	4C	Normal	Palladium
507/1/02292/002	SM4CN57	5945-99-012-3986	6/40	4C	Normal	Palladium
507/1/02292/003	SM4CN58	5945-99-012-3987	12/180	4C	Normal	Palladium
507/1/02292/004	SM4CN59	5945-99-012-3988	24/670	4C	Normal	Palladium
507/1/02292/005	SM4CN60	5945-99-012-3989	42/2500	4C	Normal	Palladium
507/1/02292/033	SM4CN61	5945-99-012-3990	1.3/2	2C2K	Normal	Palladium
507/1/02292/034	SM4CN62	5945-99-012-3991	6/40	2C2K	Normal	Palladium
507/1/02292/035	SM4CN63	5945-99-012-3992	12/180	2C2K	Normal	Palladium
507/1/02292/036	SM4CN64	5945-99-012-3993	24/670	2C2K	Normal	Palladium
507/1/02292/037	SM4CN65	5945-99-012-3994	48/2500	2C2K	Normal	Palladium
507/1/02292/040	SM4CN66	5945-99-012-3995	12/180	4K	Normal	Palladium
507/1/02292/041	SM4CN67	5945-99-012-3996	24/670	4K	Normal	Palladium
507/1/02293/012	SC4CH7	5945-99-012-3997	1.3/2	2M	Heavy	Silver Cad.
507/1/02293/013	SM4CH8	5945-99-012-3998	6/40	2M	Heavy	Silver Cad.
507/1/02293/014	SM4CH9	5945-99-012-3999	12/180	2M	Heavy	Silver Cad.
507/1/02293/015	SM4CH10	5945-99-012-4599	24/670	2M	Heavy	Silver Cad.
507/1/02293/016	SM4CH11	5945-99-012-4629	48/2500	2M	Heavy	Silver Cad.
507/1/02293/017	SM4CH12	5945-99-012-4630	1.3/2	MB	Heavy	Silver Cad.
507/1/02293/018	SM4CH13	5945-99-012-4631	6/40	MB	Heavy	Silver Cad.
507/1/02293/019	SM4CH14	5945-99-012-4659	18/180	MB	Heavy	Silver Cad.
507/1/02293/020	SM4CH15	5945-99-012-4660	24/670	MB	Heavy	Silver Cad.
507/1/02293/021	SM4CH16	5945-99-012-4661	48/2500	MB	Heavy	Silver Cad.
507/1/02293/022	SM4CH17	5945-99-012-4662	1.3/2	2B2M	Heavy	Silver Cad
507/1/02293/023	SM4CH18	5945-99-012-4663	6/40	2B2M	Heavy	Silver Cad
507/1/02293/024	SM4CH19	5945-99-012-4664	12/180	2B2M	Heavy	Silver Cad
507/1/02293/025	SM4CH20	5945-99-012-4665	24/670	2B2M	Heavy	Silver Cad
507/1/02293/026	SM4CH21	5945-99-012-4666	48/2500	2B2M	Heavy	Silver Cad
507/1/02293/009	SM4CH22	5945-99-012-4667	12/180	4M	Heavy	Silver Cad
507/1/02293/010	SM4CH23	5945-99-012-4668	24/670	4M	Heavy	Silver Cad
507/1/09682/004		5945-99-195-1174	24/670	4C	Normal	Palladium
507/1/09683/015		5945-99-107-6385	24/670	2M	Heavy	Silver Cad

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DATA SHEET

RELAY

Type CB

Relay Unsealed Type CB

Part No.	Style Ref.	NATO Stock No.	Coil Volt/Res. V/ Ω	Contact		
				Action	Duty	Material
507/1/02326/097	SM5MN141	5945-99-012-3862	1.3/2	1C	Normal	Palladium
507/1/02326/098	SM5MN142	5945-99-012-3863	6/40	1C	Normal	Palladium
507/1/02326/099	SM5MN143	5945-99-012-3864	12/180	1C	Normal	Palladium
507/1/02326/100	SM5MN144	5945-99-012-3865	24/670	1C	Normal	Palladium
507/1/02326/101	SM5MN145	5945-99-012-3866	48/2500	1C	Normal	Palladium
507/1/02326/102	SM5MN146	5945-99-012-3867	85/7600	1C	Normal	Palladium
507/1/02326/016	SM5MN147	5945-99-012-3868	1.3/2	2C	Normal	Palladium
507/1/02326/017	SM5MN148	5945-99-012-3869	6/40	2C	Normal	Palladium
507/1/02326/018	SM5MN149	5945-99-012-3870	12/180	2C	Normal	Palladium
507/1/02326/019	SM5MN150	5945-99-012-3871	24/670	2C	Normal	Palladium
507/1/02326/020	SM5MN151	5945-99-012-3872	48/2500	2C	Normal	Palladium
507/1/02326/021	SM5MN152	5945-99-012-3873	85/7600	2C	Normal	Palladium
507/1/02326/001	SM5MN153	5945-99-012-3874	1.3/2	4C	Normal	Palladium
507/1/02326/002	SM5MN154	5945-99-012-3875	6/40	4C	Normal	Palladium
507/1/02326/003	SM5MN155	5945-99-012-3876	12/180	4C	Normal	Palladium
507/1/02326/004	SM5MN156	5945-99-012-3877	24/670	4C	Normal	Palladium
507/1/02326/005	SM5MN157	5945-99-012-3878	42/2500	4C	Normal	Palladium
507/1/02326/033	SM5MN158	5945-99-012-3879	1.3/2	2K2C	Normal	Palladium
507/1/02326/034	SM5MN159	5945-99-012-3880	6/40	2K2C	Normal	Palladium
507/1/02326/035	SM5MN160	5945-99-012-3881	12/180	2K2C	Normal	Palladium
507/1/02326/036	SM5MN161	5945-99-012-3882	24/670	2K2C	Normal	Palladium
507/1/02326/037	SM5MN162	5945-99-012-3883	48/2500	2K2C	Normal	Palladium
507/1/02326/040	SM5MN163	5945-99-012-3884	12/180	4K	Normal	Palladium
507/1/02326/041	SM5MN164	5945-99-012-3885	24/670	4K	Normal	Palladium
507/1/02291/001	SM5MH85	5945-99-012-3886	1.3/2	2M	Heavy	Silver Cad.
507/1/02291/002	SM5MH86	5945-99-012-3887	6/40	2M	Heavy	Silver Cad.
507/1/02291/003	SM5MH87	5945-99-012-3888	12/180	2M	Heavy	Silver Cad.
507/1/02291/004	SM5MH88	5945-99-012-3889	24/670	2M	Heavy	Silver Cad.
507/1/02291/005	SM5MH89	5945-99-012-3890	48/2500	2M	Heavy	Silver Cad.
507/1/02291/012	SM5MH90	5945-99-012-3891	1.3/2	MB	Heavy	Silver Cad.
507/1/02291/013	SM5MH91	5945-99-012-3892	6/40	MB	Heavy	Silver Cad.
507/1/02291/014	SM5MH92	5945-99-012-3893	18/180	MB	Heavy	Silver Cad.
507/1/02291/015	SM5MH93	5945-99-012-3894	24/670	MB	Heavy	Silver Cad.
507/1/02291/016	SM5MH94	5945-99-012-3895	48/2500	MB	Heavy	Silver Cad.
507/1/02291/006	SM5MH95	5945-99-012-3896	1.3/2	2B2M	Heavy	Silver Cad
507/1/02291/007	SM5MH96	5945-99-012-3897	6/40	2B2M	Heavy	Silver Cad
507/1/02291/008	SM5MH97	5945-99-012-3898	12/180	2B2M	Heavy	Silver Cad
507/1/02291/009	SM5MH98	5945-99-012-3899	24/670	2B2M	Heavy	Silver Cad
507/1/02291/010	SM5MH99	5945-99-012-3868	48/2500	2B2M	Heavy	Silver Cad
507/1/02291/019	SM5MH100	5945-99-012-3871	12/180	4M	Heavy	Silver Cad
507/1/02291/020	SM5MH101	5945-99-012-3872	24/670	4M	Heavy	Silver Cad

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