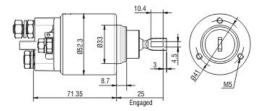
SOLENÓIDE/ SOLENOID SWITCH / SOLENOIDE





Solenóide ZM 378 12v

CAP ZM 378.91

Código Original do Solenóide / Solenoid Original Code / Código Original del Solenoide

BOSCH:

2.339.304.005 2.339.304.009 2.339.304.046

Código do Motor / Starter Code / Código del Motor

BMW:

12 41 1 438 696

12 41 1 712 937 12 41 1 712 973

12 41 1 740 374 12 41 4 354 823

BOSCH:

0.001.107.442

0.001.108.157

0.001.108.401

BX108157

Aplicação / Used on / Aplication

Montadora / Car Maker	Veículo / Vehicle	Variação do modelo / Model variation:	De / From	:Até / To
BMW	3 Series	316i with M43 (16 4 E3) engine	1998	
		Coupe 330Ci with M54 (30 6 S3) engine	2000	
		Convertible 320Ci with M54B22 engine	2000	
		318i with M43B19 engine	1998	2001
		Touring 316i with M40B16 engine	1991	1994
		Convertible 320Ci with M54 (22 6 S1) engine	2000	
		320i with M54 (22 6 S1) engine	2000	
		Touring 316i with M40B16 (Kat.) engine	1991	1994
		Convertible 323Ci with M52B25 engine	2000	2000
		323i with M52B25 (Vanos) engine	1998	2000
		Touring 318i with M40B18 (Kat.) engine	1989	1994
		Convertible 325Ci with M54 (25 6 S5) engine	2000	
		325i with M54 (25 6 S5) engine	2000	
		Touring 318i with M40B18 engine	1987	1991
		Convertible 330Ci with M54 (30 6 S3) engine	2000	
		325xi with M54 (25 6 S5) engine	2000	
		Touring 316i with M43B16 engine	1996	1999
		316i with M40B16 engine	1988	1993
		Coupe 316i with M43B16 engine	1993	1999
		330i with M54 (30 6 S3) engine	2000	
		Touring 318i with M43B18 engine	1995	1999
		316i with M40B16 (Kat.) engine	1987	1993
		Coupe 318is with M44B19 engine	1995	1999
		330xi with M54 (30 6 S3) engine	2000	
		Touring 320i with M52B (20 6 S3) engine	1995	2000
		318i with M40B18 engine	1987	1991
		Coupe 318is with M42B18 engine	1992	1995
		Compact 316g	1995	2000
		Touring 323i 2.5 with M52B25 (vanos) engine	1995	1999
		318i with M40B18 (Kat.) engine	1987	1993
		Coupe 320i with M50B (20 6 S1) engine	1992	1999
		Compact 316i with M43 (16 4 E3) engine	1998	2000
		Touring 328i with M52B28 engine	1995	2000
		318is with M42B18 engine	1989	1997
		Coupe 320i with M50B (20 6 S2) engine	1992	1999
		Compact 316i with M43B16 engine	1994	2000
		Touring 318i with M43B19 engine	1999	2001
		316i with M43B16 engine	1993	1998
		Coupe 320i with M52B (20 6 S3) engine	1992	1999
		Compact 318ti with M42B18 engine	1994	1995
		Touring 320i with M54 (22 6 S1) engine	2000	
		318i with M43B18 engine	1993	1998
		Coupe 323i 2.5 with M52B25 (vanos) engine	1995	1999
		Compact 318ti with M44B19 engine	1995	2000
		Touring 325i with M54 (25 6 S5) engine	2000	1000
		318is with M44B19 engine	1995	1998
		Coupe 325i with M52B25 (vanos) engine	1992	1999
		Compact 323ti with M52B25 (vanos) engine	1997	2000
		Touring 325xi with M54 (25 6 S5) engine	2000	1998
		320i with M50B (20 6 S1) engine	1990	1998
		Coupe 328i with M52B28 engine Compact 325ti with M54 (25 6 S5) engine	1995 2001	1999
		, , ,		-
		Touring 330i with M54 (30 6 S3) engine	2000 1990	1998
		320i with M50B (20 6 S2) (vanos) engine	2000	1998
		Coupe 316Ci with M43B16 (16 4 E3) engine Convertible 318i with M40B18 (Kat.) engine		1002
		` , ,	1990	1993
		Touring 330xi with M54 (30 6 S3) engine	2000	2000
		320i with M52B (20 6 S3) (vanos) engine Coupe 318Ci with M43B19 engine	1990	2000
		Coupe 318Ci with M43B19 engine Convertible 318i with M40B18 engine	1999 1994	1999
		· · · · · · · · · · · · · · · · · · ·		
		323i 2.5 with M52B25 (vanos) engine Coupe 320Ci with M54 (22 6 S1) engine	1995	1998
		Coupe 32001 with 19134 (22 to 31) engine	2000	

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ontadora / Car	Veículo / Vehicle	Variação do modelo / Model variation:	De / From	Até / To
		Coupe 3.0 with M54 (30 6 S3) engine	2000	
		Coupe 2.8 with M52B28 engine	1997	2000
		3.0 with M54 (30 6 S3) engine	2000	
		2.8 with M52B28 engine	1997	2000
		2.2 with M54 (22 6 S1) engine	2000	
		2.2 with M54B22 engine	2000	
		1.9 with M44B19 engine 2.0 with M52B (20 6 S3) vanos engine	1995	1999
		1.9 with M43B19 engine	1998 1995	1999
		1.9 with M43 (19 4 E1) engine	1998	
	Z3	1.8 with M43B18 engine	1995	1998
	70	728iL with M52B28 engine	1995	2001
	7 Series	728i with M52B28 engine	1995	2001
		Touring 520i with M52B (206S4) engine	1997	2000
		525i 24V with M52B25 (vanos) engine	1989	1995
		Touring 523i with M52B25 (vanos) engine	1997	2000
		520i 24V with M50B (20 6 S2) vanos engine	1989	1995
		Touring 520i with M52B (206S3) engine	1997	2000
		520i 24V with M50B (20 6 S1) engine	1989	1995
		Touring 520i with M 54 B 22 engine	2000	
		518i with M43B18 (Kat.) engine	1989	1995
		Touring 525i X with M52B25 (vanos) engine	1992	1997
		518i with M43B18 engine	1989	1995
		Touring 525i X with M50B25 engine	1992	1997
		Touring 525i with M50B25 engine	1991	1997
		Touring 525i with M52B25 (vanos) engine	1991	1997
		Touring 520i with M50B (20 6 S2) engine	1991	1997
		Touring 520i with M50B (20 6 S1) engine	1991	1997
		Touring 518i with M40B18 (Kat.) engine	1993	1994
		Touring 518i with M43B18 engine	1994	1997
		Touring 518g with M43B18 engine	1995	1996
		530i with M54 (30 6 S3) engine	2000	
		528i with M52B28 engine	1995	2000
		525i with M54 (25 6 S5) engine	2000	
		520i with M52B (20 6 S4) engine	1996	2000
		523i with M52B25 (vanos) engine	1995	2000
		520i with M52B (20 6 S3) vanos engine	1996	2000
		Touring 530i with M54 (306S3) engine	2000	
		520i with M54B22 engine	2000	
		Touring 528i with M52B28 engine	1997	2000
		525i X 24V with M52B25 (vanos) engine	1991	1995
		Touring 525i with M54 (256S5) engine	2000	
	5 Series	525i 24V with M50B25 engine	1989	1995
		Convertible 328i with M52B28 engine	1995	1999
		Coupe 328Ci with M52B28 engine	1999	2000
		316i with M43B16 (16 4 E3) engine	2000	
		Convertible 325i with M52B25 engine	1993	1995
		Coupe 325Ci with M54 (25 6 S5) engine	2000	_000
		328i with M52B28 engine	1995	2000
		Convertible 323i 2.5 with M52B25 engine	1995	1999
		Coupe 323Ci with M52B25 (vanos) engine	1999	2000
		325i with M52B25 (vanos) engine	1993	1995
		Convertible 320i with M52B (20 6 S3) engine	1993	1999
		Coupe 320Ci with M52B (20 6 S4) engine	1990	2000
		Convertible 320i with M50B (20 6 S2) engine 325i with M50B25 engine	1993 1990	1999 1995