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Automotive Electronics and Accessories 2015/16




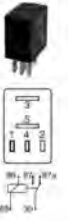
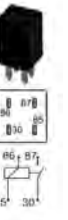
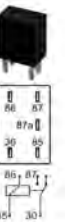
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# MIKRO / ULTRAMIKRO RELAIS MICRO / ULTRA MICRO RELAYS

	IKA-No.	Original	References	Technical data	Applications
 	9 9048 1	Bosch VDO	0 332 017 103 V23073-B1005-A302	12V, MICRO 25A T13, C1 Normally open SEALED !	Volvo 29 200 006
 	9 9050 1			12V, MICRO 25A T15, C1 Normally open 2.8mm	
 	9 9051 1			12V, MICRO 25A T15, C3 Normally open 2.8mm with DIODE !	
 	9 9053 1	Bosch	0 332 017 100 0 332 017 300	12V, MICRO 25A T13, C2 Normally open SEALED ! with RESISTOR !	Fiat 11129885 46520412
 	9 9054 1			12V, MICRO 25A T13, C3 Normally open SEALED ! with DIODE !	
 	9 9055 1			12V, MICRO 20/25A T14, C4 Changeover SEALED !	


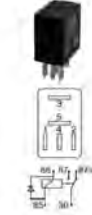
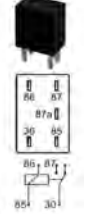

# MIKRO / ULTRAMIKRO RELAIS MICRO / ULTRA MICRO RELAYS

IKA-No.	Original	References	Technical data	Applications
9 9056 1	Bosch VDO	0 332 207 100 0 332 207 307 V23074A1001A403	12V, MICRO 20/25A T14, C5 Changeover SEALED ! with RESISTOR !	Opel 90414477, 90511443 John Deere AL76702
				
9 9057 1	Bosch	0 332 207 104 0 332 207 304	12V, MICRO 20/25A T14, C6 Changeover SEALED ! with DIODE !	
				
9 9058 1			12V, MICRO 25A T15, C3 Normally open 2.8mm SEALED ! with DIODE !	
				
9 9320 1			12V MICRO 20/25A T16, C4 Changeover 2.8mm	
				
9 9364 1			12V ULTRA MICRO 20A T17, C1 Normally open	
				
9 9365 1			12V ULTRA MICRO 20/30A T18, C4 Changeover	
				

# MIKRO / ULTRAMIKRO RELAIS MICRO / ULTRA MICRO RELAYS

IKA-No.	Original	References	Technical data	Applications
9 9059 1			24V, MICRO 15A T13, C1 Normally open	
9 9286 1			24V MICRO 15A T15, C1 Normally open 2.8mm	
9 9287 1			24V MICRO 15A T15, C3 Normally open 2.8mm with DIODE !	
9 9288 1			24V MICRO 5/10A T16, C4 Changeover 2.8mm	
9 9289 1			24V MICRO 10A T13, C3 Normally open SEALED ! with DIODE !	
9 9290 1			24V MICRO 10/15A T14, C4 Changeover SEALED !	







# MIKRO / ULTRAMIKRO RELAIS MICRO / ULTRA MICRO RELAYS

IKA-No.	Original	References	Technical data	Applications
9 9291 1			24V MICRO 10/15A T14, C5 Changeover SEALED ! with RESISTOR !	
9 9292 1			24V MICRO 10/15A T14, C6 Changeover SEALED ! with DIODE !	
9 9384 1			24V ULTRA MICRO 10/20A T18, C4 Changeover	
9 9412 1			24V, MICRO 15A T15, C1 Normally open 2.8mm SEALED!	






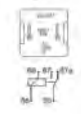

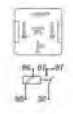






# MINI RELAIS

## MINI RELAYS

IKA-No.	Original	References	Technical data	Applications
	9 9010 1		6V 15A T1, C12 Normally open with FUSE !	
	9 9078 1		6V 30A T2, C9 Normally open 2x87 with BRACKET !	
	9 9112 1		6V 20/30A T3, C4 Changeover with BRACKET !	
	9 9000 1	Bosch Hella  0 332 019 451 4RA003 510-361 4RA003 530-001,003,-007, -363,-367	12V 15A T1, C12 Normally open with FUSE !	Fendt X830250024000 Opel 1238587, 90008100, 03447012 Porsche 91161510301 Volvo 2813702,3542997,43733670
	9 9001 1	Bosch  0 332 003 011 0 332 014 119,-134,-150 -406,-409 Hella Lucas SWF Valeo VDO 4RA003510-082 SRB520 / SRB536 611000 601063, 601253, 611000 V23134-B0052-C642 V23134-B1052-C642	12V 30A T1, C1 Normally open with BRACKET !	Ford 6193228, 90BB9E731EA IHC 3221235R1 John Deere AZ26996 Nissan 03440489 Opel 03440489, 1238604, 1238965, 90320505 Porsche 171 937 503, 311 963 141 B 928 615 117 00 Saab 85 22310 Volvo 841177 VW 141 951 253 A, 171 937 503, 311 963 141 B, 431 951 253 431 455 531
	9 9002 1	Hella 66202 / -U 4RA003 510-111 4RA933 332-101	12V 40A T1, C1 Normally open with BRACKET !	Fendt D450 600 21


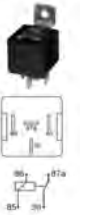




# MINI RELAIS

## MINI RELAYS

IKA-No.	Original	References	Technical data	Applications
9 9003 1			12V 30/40A T3, C4 Changeover	
 				
9 9004 1	Bosch  Hella  Lucas VDO  SWF	0 332 201 101,-113,-125 -150,-151,-402 0 332 209 150,-151,-168 4RD001838-011 4RD003520-081 4RD003520-131 66199U, -200U, -201U SRB525 / SRB501 V23134-A0052-C643 V23134-A1052-C643 V23134-B1052-C642 611008	12V 30/40A T3, C4 Changeover with BRACKET !	Fiat 60507061 Ford 0605 3460, 1574 754 81DB 15K235 RA Iveco 98429863 John Deere AL29657 MB A 000 545 83 05, A 000 545 84 05 A 000 821 01 63 A 001 531 02 60 Renault 50 00 409 318, 5516038407, 7701375547 Scania 321490 Volvo 11987137, 1214764, 1259926... VW 443 951 254 A
 				
9 9005 1	Bosch  Hella  Lucas SWF VDO	0 332 014 107,-113 -118,-119 -125,-150 -406,-801 0 332 019 150, -151 66183, 87118,-152,-153 4RA003510-131,-137, -267 SRB521, SRB528 611016 V223134-C0052-C642	12V 40A T2, C9 Normally open 2x87 with BRACKET !	Fiat 4320625, 4320629 Iveco 4840090, 4849503, 4320625 Volvo 1235893
 				
9 9006 1			12V 40A T2, C7 Normally open 2x87 with RESISTOR ! with BRACKET !	
 				
9 9060 1			12V 30/40A T3, C4 Changeover SEALED !	
 				
9 9061 1			12V 30/40A T3, C5 Changeover SEALED ! with RESISTOR !	
 				







# MINI RELAIS

## MINI RELAYS

IKA-No.	Original	References	Technical data	Applications
 <p>9 9062 1</p>			12V 30/40A T3, C6 Changeover SEALED ! with DIODE !	
 <p>9 9293 1</p>			12V 20A T4, C10 Normally closed with BRACKET !	
 <p>9 9295 1</p>			12V 2x25A T11, C11 double contact with BRACKET !	
 <p>9 9296 1</p>			12V 2x25A T11, C16 double contact with BRACKET ! with RESISTOR !	
 <p>9 9297 1</p>	Bosch  Hella  Lucas	0 332 003 011 0 332 014 409 0 332 019 453 4RA003510-081, -661 SRB523	12V 30A T9, C1 Normally open with BRACKET !	BMW 1 351 317, 1 353 789 Ford 6050578, 6059235 Iveco 0 335 8306 Opel 1238611, 43206400 Volvo 672599 VAG KDWHL09402
 <p>9 9298 1</p>	Bosch Lucas	0 332 204 402 SRB527	12V 20/30A T10, C4 Changeover with BRACKET !	Volvo 268775







# MINI RELAIS

## MINI RELAYS

IKA-No.	Original	References	Technical data	Applications
 <p>9 9300 1</p>			12V 30A T1, C2 Normally open SEALED ! with RESISTOR !	
 <p>9 9301 1</p>			12V 20/30A T3, C5 Changeover SEALED ! with RESISTOR !	
 <p>9 9302 1</p>			12V 30A T9, C2 Normally open SEALED ! with RESISTOR !	
 <p>9 9303 1</p>			12V 20/30A T10, C5 Changeover SEALED ! with RESISTOR !	
 <p>9 9304 1</p>			12V 40A T1, C2 Normally open with RESISTOR !	
 <p>9 9305 1</p>	Bosch  Hella	0 332 014 106 0 332 019 103, -110 0 986 332 002, -003 4RA003510-067	12V 40A T1, C2 Normally open with BRACKET ! with RESISTOR !	VAG 141 951 253 B 431 951 253 H 8D0 951 253 A


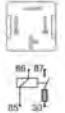



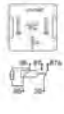
# MINI RELAIS

## MINI RELAYS

	IKA-No.	Original	References	Technical data	Applications
	9 9306 1			12V 40A T1, C3 Normally open with BRACKET ! with DIODE !	
	9 9307 1	Bosch  Hella	0 332 204 109 0 332 209 137, -138, -159 -161, -167 4RD003520-241	12V 30/40A T3, C5 Changeover with BRACKET ! with RESISTOR !	MB 210 824 00 18 PSA 6555 68, 6555 88 VAG 191 927 841 431 951 253 D
	9 9308 1	Bosch	0 332 209 135 0 332 208 152 0 332 209 158	12V 30/40A T3, C6 Changeover with BRACKET ! with DIODE !	Iveco 5158609, 99434621 Renault 77 00 807 154 Volvo 1 324 492
	9 9309 1			12V 40A T2, C8 Normally open 2x87 with BRACKET ! with DIODE !	
	9 9310 1			12V 40A T9, C3 Normally open with BRACKET ! with DIODE !	
	9 9314 1			12V 20/30A T10, C5 Changeover with BRACKET !	

# MINI RELAIS

## MINI RELAYS

IKA-No.	Original	References	Technical data	Applications	
 	9 9007 1		24V 15A T1, C12 Normally open with FUSE !		
	9 9008 1	Bosch Hella  Lucas VDO	0 332 003 012 4RA003510-151,-157 4RA933332-111,-117 SRB530 V23134-B0053-C642 V23134-B1053-C642	24V 20A T9, C1 Normally open with BRACKET !	BMW 1 378 302 Scania 235940 VW 183 951 253
 	9 9009 1	Bosch  Hella  SWF VDO	0 332 200 014 0 332 204 201-204, -802 0 332 209 203, -211 4RD001838-021 4RD003520-071,-091, -093 4RD933332-061,-067 611009 V23134-A1053-C642	24V 10/20A T3, C4 Changeover with BRACKET !	BMW 2010080, 7920100 Ford 11 000 107 50 John Deere 014372, 15730019,59024 Iveco 0 116 4018,-4648 0 124 5710 MAN 81 259 02 0102,-0130,-0137,-0171,-0202 0248,-0250 MB 000 545 5405, -8405, -9005 000 820 17 10 001 531 02 60 350 264 86 01 Opel 3 436 400 Scania 243 460, 243 879 Volvo 1504 951, 241 595, 870 451
	9 9063 1	Bosch  Hella	0 332 204 206 0 332 204 207 66106, -B 87115, -B 4RD003520-227	24V 10/20A T3, C5 Changeover with BRACKET ! with FUSE ! with RESISTOR !	Iveco 9267701 Fiat 1164018 MB 000 820 17 10
 	9 9064 1	Bosch  Hella	0 332 204 204, -212 -213,-214 0 332 209 204 66107, -B 4RD003520-151 -157	24V 10/20A T3, C6 Changeover with BRACKET ! with FUSE ! with DIODE !	Hanomag 3097 003 M1, 4901 665 M1 MB 000 545 58 05 Renault 55 00 504 445
	9 9065 1	Bosch  Hella  Lucas	0 332 003 018 0 332 014 202, -203 -213 0 332 019 203, -213 87116 4RA003510-141, -147 SRB531/538	24V 20A T2, C9 Normally open 2x87 with BRACKET ! with FUSE !	Iveco 0 116 4016, 6 115 9225, 4718224 MAN 81 25902 0058, -0109, -0156 MB 000 545 72 05 001 542 11 19, 001 542 56 19 Renault 50 00 560 865 Volvo 1501833, 839424, 839534

# MINI RELAIS

## MINI RELAYS

IKA-No.	Original	References	Technical data	Applications
9 9066 1			24V 20A T2, C8 Normally open 2x87 with BRACKET ! with FUSE ! with DIODE !	
9 9067 1			24V 2x15A T11, C11 Double Contact with BRACKET ! with FUSE !	MAN 812 590 20133
9 9068 1			24V 2x15A T11, C16 Double Contact with BRACKET ! with FUSE ! with RESISTOR !	
9 9069 1	Bosch Hella Lucas	0 332 014 408 4RA003510-091 SRB533	24V 20A T9, C1 Normally open with BRACKET !	
9 9070 1			24V 10/20A T10, C4 Changeover with BRACKET !	
9 9071 1			24V 20A T1, C2 Normally open SEALED ! with RESISTOR !	

# MINI RELAIS



## MINI RELAYS

IKA-No.	Original	References	Technical data	Applications
9 9072 1			24V 10/20A T3, C4 Changeover SEALED !	
9 9073 1			24V 10/20A T3, C5 Changeover SEALED ! with RESISTOR !	
9 9074 1			24V 10/20A T3, C6 Changeover SEALED ! with FUSE ! with DIODE !	
9 9075 1			24V 10/20A T10, C5 Changeover SEALED ! with FUSE ! with RESISTOR !	
9 9076 1			24V 30A T1, C3 Normally open with BRACKET ! with DIODE !	
9 9077 1			24V 30A T9, C3 Normally open with BRACKET ! with DIODE !	



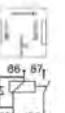


# MINI RELAIS







## MINI RELAYS

IKA-No.	Original	References	Technical data	Applications
9 9105 1			24V 20A T1, C3 Normally open with BRACKET ! with DIODE !	
				
9 9079 1			48V 5/10A T3, C4 Changeover with BRACKET ! with FUSE !	
				

# HOCHLEISTUNGSRELAIS HD RELAYS

IKA-No.	Original	References	Technical data	Applications
 	9 9011 1	Hella 4RA003437-047	12V 70A T8, C1 Normally open with BRACKET !	Iveco 51395260 MB 000 542 9719 VW 431 951 253 H 433 951 253 B, -J, -K, -L Volvo 3464104, 28058151
 	9 9012 1		12V 75A T19, C1 Normally open with BRACKET !	
 	9 9013 1		12V 75A T19, C17 Normally open with BRACKET ! with DIODE !	
 	9 9080 1		12V 70A T8, C2 Normally open with BRACKET ! with RESISTOR !	
 	9 9082 1		12V 70A T8, C3 Normally open with BRACKET ! with DIODE !	
 	9 9083 1		12V 60/70A T7, C4 Changeover with BRACKET !	

# HOCHLEISTUNGSRELAIS HD RELAYS







IKA-No.	Original	References	Technical data	Applications
9 9084 1			12V 70A T8, C1 Normally open SEALED !	
9 9085 1			12V 70A T8, C2 Normally open SEALED ! with RESISTOR !	
9 9086 1			12V 70A T8, C3 Normally open SEALED ! with DIODE !	
9 9087 1			12V 60/70A T7, C6 Changeover SEALED ! with DIODE !	
9 9088 1			12V 100A T8, C1 Normally open SEALED !	
9 9089 1			12V 100A T8, C2 Normally open SEALED ! with RESISTOR !	

# HOCHLEISTUNGSRELAIS HD RELAYS







IKA-No.	Original	References	Technical data	Applications
9 9090 1			12V 100A T8, C3 Normally open SEALED ! with DIODE !	
9 9091 1			12V 80/100A T7, C4 Changeover SEALED !	
9 9092 1			12V 80/100A T7, C5 Changeover SEALED ! with RESISTOR !	
9 9093 1			12V 80/100A T7, C6 Changeover SEALED ! with DIODE !	
9 9138 1	Bosch Hella Valeo	0 332 002 192 0 986 332 001 4RA003510-461 4RA003510-021 66130, 66132 643827	12V 70A Normally open with BRACKET ! with RESISTOR !	VAG 191 937 503 7M0 951 253 A 8D0 951 253
9 9174 1			12V 70A	






# HOCHLEISTUNGSRELAIS HD RELAYS

IKA-No.	Original	References	Technical data	Applications
9 9175 1			12V 70A with BRACKET !	
9 9014 1			24V 70A T8, C1 Normally open with BRACKET !	
9 9094 1			24V 40A T8, C1 with BRACKET !	
9 9095 1			24V 30/40A T7, C4 Changeover with BRACKET !	
9 9096 1			24V 50A T19, C1 Normally open with BRACKET !	
9 9097 1			24V 50A T19, C17 Normally open with BRACKET ! with DIODE !	

# HOCHLEISTUNGSRELAIS HD RELAYS

IKA-No.	Original	References	Technical data	Applications
9 9098 1			24V 40A T8, C1 Normally open SEALED !	
9 9099 1			24V 40A T8, C2 Normally open SEALED ! with DIODE !	
9 9100 1			24V 40A T8, C3 Normally open SEALED ! with DIODE !	
9 9101 1			24V 30/40A T7, C6 Changeover SEALED ! with DIODE !	
9 9102 1			24V 50A T8, C1 Normally open SEALED !	
9 9103 1			24V 50A T8, C2 Normally open SEALED ! with RESISTOR !	

# HOCHLEISTUNGSRELAIS HD RELAYS







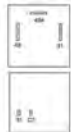

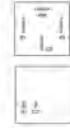


IKA-No.	Original	References	Technical data	Applications
9 9104 1			24V 40/50A T7, C4 Changeover SEALED !	
9 9312 1			24V 70A T8, C2 Normally open with RESISTOR !	
9 9313 1			24V 70A T8, C2 Normally open with BRACKET ! with RESISTOR !	

# BLINKGEBER FLASHERS / PULSE GENERATORS





IKA-No.	Original	References	Technical data	Applications
9 9182 1			6V 42W	
				
9 9189 1			6V 42W	
				
9 9026 1	Bosch  Hella	0 335 200 078 0 336 203 005 0 336 206 004 4DB001887-001,-002 -021,-022 4DB003425-037,-041,-047	12V 2/4x21W	BMW 1 371 907 MB 001 544 48 32 Opel 1226331, 1226919, 1226923, 1226929 1226935 Porsche 901 618 303 02, 914 618 303 10 Volvo 1 210 124, 1 214 008 VW 191 953 277, -A
				
9 9027 1	Bosch  Hella  Lucas Valeo	0 335 200 003,-004 012,-013,-022 023,-027,-028 035,-036,-038 043,-045,-052 053,-054,-066 068,-073,-075 4DB002478-171 4DB002895-011,-012 -017,-021 4DB003750-060,-071 -092,-102 -137,-151 -645,-648 -651,-661 -674 4DB003895-021 SFB161, SFB182 739187	12V 2/4x21W	BMW 1 244 377, 1 244 392, 1 365 113, 1 371 539 4 257 342, 1 243 565, 1 244 314, 1 366 727, 1 371 907 Fiat 464 635 29, 608 05 630 Ford 4078559, 4162892, 6048781 85GG13350AA MB A002 544 86 32, - 98 32 A003 544 27 32 002 544 13 32, -37 32, -48 32, -85 32 Opel 09148292, 090055543 Porsche 111 923 227 D, 111 953 227 D VW 111 953 227 A-D, 113 953 227 191 953 227 A 1H0953227 431 953 231
				
9 9029 1			12V max. 300W L X	
				
9 9030 1			12V max. 300W L P X	
				



# BLINKGEBER FLASHERS / PULSE GENERATORS

IKA-No.	Original	References	Technical data	Applications
 <b>9 9081 1</b>			12V 110W	
  <b>9 9176 1</b>			12V 2/4x21W with lamp failure control	
  <b>9 9177 1</b>	Bosch           Hella           Lucas	0 335 200 005, -006 -016, -017 -029,-031 -037, -044 -044, -067 0 335 207 006 4DM003360-001, -002 4DM003390-011 4DM004420-011, -027 -028, -101 -107, -197 4DM005698-011, -017 4DW003390-051 SFB 164	12V 2+1/6x21W with lamp failure control	BMW 1 367 158 Ford 1479291, 5002210, 5003694, 73849634 75NB-13350-AA, V92VG-13350-AA Iveco 2 562 676 John Deere 506 586, 506 678, 507 807, 564 37 MB 002 544 87 32 Opel 03 463 128, 12 26 926, 17 36 505 90040385 Renault 0037960200 VAG 000 055 206, 211 953 231G KDW HL0 925 0 .....
  <b>9 9178 1</b>			12V 2+1/6x21W lamp failure control	
  <b>9 9179 1</b>			12V 2+1/6x21W lamp failure control	
  <b>9 9180 1</b>	Hella	4DB003460-02	12V 2+1/6x21W lamp failure control	







# BLINKGEBER FLASHERS / PULSE GENERATORS

IKA-No.	Original	References	Technical data	Applications
9 9183 1			12V 2+1/6x21W lamp failure control	
9 9185 1			12V 2+1/6x21W lamp failure control	
9 9186 1			12V 180W	
9 9190 1			12V 2+1+1/8x21W lamp failure control	
9 9196 1			12V 2+1/6x21W	BMW 1 388 533 61 31 1 388 533
9 9324 1			12V 0.02A-10A LED lamp failure control	

# BLINKGEBER FLASHERS / PULSE GENERATORS

IKA-No.	Original	References	Technical data	Applications	
 	9 9329 1		12V 2+1/6x21W lamp failure control		
 	9 9346 1	Bosch Hella	0 335 200 160 4DN006208-011, -017 -021, -027 -031, -037	12V 2+1+1x21W lamp failure control	Iveco 51542780, 51514910, 5125586, 5122663 Volvo 4803262
	9 9350 1		12V 42/92 2/4x21W 3 poles		
 	9 9396 1		12V 2/4x21W	Fiat 7595406 PSA 925359780, 7551093710, 7520053006 549040486, 6323.15, 6323.07 Renault 7700576470, 7700628656 7700639864, 7701348105	
 	9 9399 1	Bosch	0 335 210 053 0 335 210 150, -153	12V 3+1/8x21W lamp failure control	MB 001 544 53 32, 002 544 10 32 A 001 544 53 32, A 002 544 10 32 Volvo 649739
	9 9416 1	Hella	4LZ003750-401	12V 2+1x21W 5-poles	VAG 5B0 953 227 UNIVERSAL

# BLINKGEBER FLASHERS / PULSE GENERATORS

IKA-No.	Original	References	Technical data	Applications
9 9028 1			24V 2+1/6x21W	
				
9 9031 1			24V max. 150W L X	
				
9 9032 1			24V max. 150W L P X	
				
9 9162 1	Hella	5KG005063-00	24V 3+1x21W lamp failure control	MAN
				
9 9181 1			24V 2+1+1/8x21W lamp failure control	
				
9 9187 1			24V 2/4x21W	
				







# BLINKGEBER FLASHERS / PULSE GENERATORS

IKA-No.	Original	References	Technical data	Applications
9 9188 1			24V 2/4x21W lamp failure control	
				
9 9191 1			24V	Volvo 1079476, 3943863 8155312, 8158697
				
9 9192 1	Hella	4DJ004589-00	24V 1+1+1/6x21W 1+1+1x21W 1+3+3x21W 14x21W lamp failure control	
				
9 9193 1			24V 500W lamp failure control	
				
9 9194 1	Hella	4DZ004019-01	12/24V 1+8x18/21W	
				
9 9195 1	Hella	4DZ002834-16	12/24V 170W	
				

# BLINKGEBER FLASHERS / PULSE GENERATORS

IKA-No.	Original	References	Technical data	Applications
9 9252 1			24V lamp failure control	Stribel 89270200
				
9 9347 1			24V 1/6x21W CV	Iveco 920690 Volvo 15048941
				
9 9351 1			24V max. 140W pulse generator	
				
9 9367 1			24V 2/4x21W lamp failure control	
				
9 9400 1			24V 2+1/6x21W lamp failure control	
				
9 9401 1	Bosch	0 335 215 163 0 335 215 164	24V 2+1+1/8x21W lamp failure control	
				

# LÜFTERSTEUERUNGEN FAN REGULATORS

	IKA-No.	Original	References	Technical data	Applications
	9 9033 1	VDO	V15-71-0035	12V	VW 1J0 919 506 M
	9 9034 1	Bosch Hella VDO	9 140 010 343 5HL351321-011 V30-79-0002	12V	MB 210 820 62 10, 202 820 73 10 A 210 820 62 10, A 202 820 7310
	9 9035 1	Hella	5HL 351 321-191 5HL 351 321-511	12V	BMW 64 11 69 20365, -23204, -29486, -31680, 64 11 83 64173, -77579, -83835, -85549,
	9 9036 1	Hella	5HL351321-131	12V	MB 210 820 61 10 210 821 15 51, -29 51, -46 51 A 210 820 61 10
	9 9210 1			12V	VAG 1J0 919 506 K
	9 9211 1			12V	VAG 357 919 506A 3A0 919 506

# LÜFTERSTEUERUNGEN FAN REGULATORS

IKA-No.	Original	References	Technical data	Applications
9 9212 1			12V	VAG 1J0 919 506 H
				
9 9213 1			12V	VAG 1J0 919 506 N
				
9 9214 1			12V	PSA
				
9 9253 1			12V	VAG 1GD 919 506 C
				
9 9264 1			12V	VAG 1J0 919 506 G
				
9 9266 1			12V	VAG 701 919 506 A
				















# LÜFTERSTEUERUNGEN FAN REGULATORS

IKA-No.	Original	References	Technical data	Applications
9 9275 1			12V	VAG 1H0 919 506
				
9 9339 1			12V	VAG 1J0 919 506 E, -H
				
9 9340 1			12V	VAG 1J0 919 506 L
				
9 9348 1			12V	VAG 701 919 506
				
9 9373 1	Hella	5HL351321-101	12V	MB 202 820 25 10 A 202 820 25 10
				

# GLÜHZEITRELAIS PREHEATING RELAYS

IKA-No.	Original	References	Technical data	Applications	
 	9 9045 1		12V	MB 000 545 35 16 025 545 28 32 646 153 65 79	
 	9 9046 1		12V	MB 000 545 36 16 019 545 69 32 648 900 00 00 028 545 40 32	
 	9 9049 1		12V	Dacia 6001546572 GM 9201699, 91167210 Nissan 11067BN700 Opel 4506156, 4409990 Renault 7700115078	
 	9 9198 1	Bosch Cartier Hella  Lucas Valeo	0 333 402 509, -517, -524 2394 4RV008188-081, -091 -101, -161 -181, -291 -301, -321  DSC02, DSC03 102180, 102696, 105857	12V	Fiat 7617640, 4792112 5990986, 5946920 Iveco 9462703, 462703 Nissan 75800005-1/2 PSA 5981.15, 9251586680
 	9 9199 1	Bosch Cartier	0 333 402 501 2386, 2389	12V	PSA 9549299580, 95534787 598110, 598113 7920076593, 9250883280
 	9 9201 1	Bosch Hella	0 281 003 005 4RV008188-281	12V	Fiat 9614167780, 9625203680 PSA 598119, 96141677, 96252036 Suzuki 38860 66G00 000

# GLÜHZEITRELAIS PREHEATING RELAYS

IKA-No.	Original	References	Technical data	Applications	
 	9 9202 1	Bosch	0 281 003 099	12V	VAG 321 911 261 321 911 261 C
 	9 9203 1			12V	Nissan 25230-69T00
 	9 9204 1			12V	Ford 83BB006M092BA, 83BB6M092AA 6143688, 6188591, 88BG8B658AA Opel 90341822, 090228928, 90276101 Volvo 34470062
 	9 9205 1	Hella	RV008188-041	12V	MB 0065458932, 0075459832 A0065458932, A0075459832
 	9 9299 1	Delphi	HDC104	12V	VAG 171 911 261, -A, -B, -C, -D, -E 443 911 261, -A 893 911 261
 	9 9357 1			12V 80A	Isuzu 8-94128-856-0 8-99201-790-A




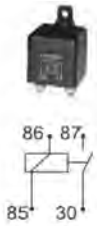


# GLÜHZEITRELAIS PREHEATING RELAYS

IKA-No.	Original	References	Technical data	Applications
9 9358 1			12V 80A	Isuzu 8-94248-161-0 8-94423-314-0
9 9404 1			12V	Nissan 11067JD50B, 82005-58438 Opel 4406678, 4420674, 93168361, 93863895 Renault 8200558438, 11067JD50B, NU61
9 9405 1			12V	GM 9108385 Opel 4400385 Renault 7700109860
9 9406 1			12V	GM 93858431 Nissan 11067 JD50A Opel 4416764 Renault 9640469680 PSA 598140, 9640469680
9 9407 1			12V	Ford YC3Z12B533AA
9 9408 1			12V	Land Rover AV61-12A343-BA PSA 5981.44, 96 638 248 80



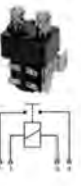
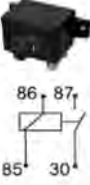
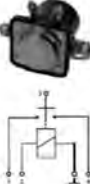
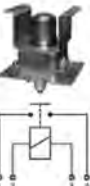
# GLÜHZEITRELAIS PREHEATING RELAYS

IKA-No.	Original	References	Technical data	Applications
9 9409 1			12V	Ford 9M5Q-12A343-AA 1693301
				
9 9410 1			12V	GM 93862497 Nissan 11067JD50C, 2523080A0A Opel 4419200 Renault 8200859243
				
9 9411 1			12V	
				
9 9413 1	Beru	GR081	12V	VAG 357 911 253
				
9 9415 1	Hella	4RA007507-031	12V	VAG 357 911 253 A
				

# BATTERIEMANAGEMENT BATTERY MANAGEMENT

	IKA-No.	Original	References	Technical data	Applications
	9 9015 1			12V 200/800A Normally open	
	9 9016 1			12V 100/180A Normally open	
	9 9017 1			12V 100/400A Normally open	
	9 9019 1			12V 120/180A Normally open	
	9 9020 1			12V 13.3V - 12.8V 140A Dual Battery	
	9 9108 1			12V 150/800A Normally open	

# BATTERIEMANAGEMENT BATTERY MANAGEMENT

IKA-No.	Original	References	Technical data	Applications
9 9109 1			12V 12.8V - 11.0V 80A Single Battery	
9 9110 1			12V 100/180A Normally open with DIODE !	
9 9113 1			12V 200/800A Normally open	
9 9114 1			12V 200/300A Normally open	
9 9115 1			12V 85A Normally open	
9 9116 1			12V 500/2500A Normally open	

# BATTERIEMANAGEMENT BATTERY MANAGEMENT

IKA-No.	Original	References	Technical data	Applications
9 9321 1			12V (Boat) 13.7V-12.8V 140A Dual Battery	
9 9372 1			12V 13.7V - 12.8V 140A with DIODE !	
9 9022 1			24V 60/80A Normally open	
9 9023 1			24V 100/150A Normally open	
9 9024 1			24V 26.6V-25.6V 140A Dual Battery	
9 9117 1			24V 100/400A Normally open	



# BATTERIEMANAGEMENT BATTERY MANAGEMENT

IKA-No.	Original	References	Technical data	Applications
9 9118 1			24V 27.4V - 25.6V 140A Dual Battery	
9 9119 1			24V 150/200A Normally open	
9 9120 1			24V 300A Bistable	
9 9121 1			24V 150/800A Normally open	
9 9122 1			24V 500/2500A Normally open	
9 9230 1			100/500A	Battery switch one pole with key-switch

# BATTERIEMANAGEMENT BATTERY MANAGEMENT


IKA-No.	Original	References	Technical data	Applications
9 9325 1			rated 75A peak 300A (5s) ON-OFF	operation by key
9 9335 1			rated 300A peak 1000A (10s) ON-OFF	manual lever nondetachable
9 9336 1			rated 250A peak 2500A (5s) 2 x ON-OFF	manual lever nondetachable
9 9395 1			rated 250A peak 2500A (5s) 3 x ON-OFF	manual lever nondetachable

# KRAFTSTOFFPUMPENRELAIS







## FUEL PUMP RELAYS

IKA-No.	Original	References	Technical data	Applications	
  	9 9128 1	Hella	4RA007507-071	12V 30A	VAG 165 906 381
  	9 9133 1	Hella	4RP008189-151	12V 40A	VAG 191 906 383C 857 951 253
  	9 9136 1			12V 40A	VAG 4D0 951 253
 	9 9206 1			12V	PSA 1920.3N, 1920.3X, 1929.49 96196965, 96075406, 9620734380
 	9 9207 1			12V	MB 003 545 17 05, 003 545 24 05
 	9 9208 1	Hella	4RP008189-091	12V	VAG 321 906 059 G 443 907 385 B







# KRAFTSTOFFPUMPENRELAIS FUEL PUMP RELAYS

IKA-No.	Original	References	Technical data	Applications	
 	9 9209 1	Hella	4RP008189-051	12V	Opel 1238539, 1238540 1238549, 1238966
 	9 9366 1			12V 30A	BMW 6 136 837 37 00
 	9 9385 1	Hella	4RP008189-151	12V 10A	VAG 191 906 383 191 906 383 C 857 951 253
 	9 9387 1			12V	MB 001 545 34 05
	9 9414 1			12V	VAG 1J0 906 383 C







# ZEIT- / FUNKTIONSRÉLAIS TIMER / MULTITIMER RELAYS

IKA-No.	Original	References	Technical data	Applications
9 9052 1			12V 8s Delay ON - standard type	
				
9 9141 1			12V 0.5s Delay ON - standard type	
				
9 9142 1			12V 3s Delay ON - standard type	
				
9 9143 1			12V 10s Delay ON - standard type	
				
9 9144 1			12V 30min Delay ON - standard type	
				
9 9149 1			12V 6s Delay OFF - standard type	
				






# ZEIT- / FUNKTIONSRÉLAIS TIMER / MULTITIMER RELAYS

IKA-No.	Original	References	Technical data	Applications
9 9150 1			12V 15s Delay OFF - standard type	
				
9 9151 1			12V 20s Delay OFF - standard type	
				
9 9152 1			12V 35s Delay OFF - standard type	
				
9 9153 1			12V 5min Delay OFF - standard type	
				
9 9154 1			12V 10min Delay OFF - standard type	
				
9 9155 1			12V 60min Delay OFF - standard type	
				

# ZEIT- / FUNKTIONSRÉLAIS TIMER / MULTITIMER RELAYS







IKA-No.	Original	References	Technical data	Applications
9 9156 1			12V 120min Delay OFF - standard type	
				
9 9163 1			12V 0.8s Pulse Relay - standard type	
				
9 9164 1			12V Latching Relay positive controlled	
				
9 9167 1			12V Latching Relay negative controlled	
				
9 9311 1			12V 15s Delay ON - standard type	
				
9 9323 1			12V 40A 1s Pulse Relay	
				

# ZEIT- / FUNKTIONSRÉLAIS TIMER / MULTITIMER RELAYS






IKA-No.	Original	References	Technical data	Applications
9 9383 1			12V 10s Delay ON adapter integrated	
9 9402 1			12V Latching Relay in-controlled	
9 9137 1			24V 2x150W Latching Relay mechanical	
9 9145 1			24V 3s Delay ON - standard type	
9 9146 1			24V 15s Delay ON - standard type	
9 9147 1			24V 15min Delay ON - standard type	



# ZEIT- / FUNKTIONSRÉLAIS TIMER / MULTITIMER RELAYS

IKA-No.	Original	References	Technical data	Applications
9 9148 1			24V 30min Delay ON - standard type	
				
9 9158 1			24V 3s Delay OFF - standard type	
				
9 9159 1			24V 10s Delay OFF - standard type	
				
9 9160 1			24V 15s Delay OFF - standard type	
				
9 9161 1			24V 30s Delay OFF - standard type	
				
9 9165 1			24V Latching Relay positive controlled	
				

# ZEIT- / FUNKTIONSRELAIS TIMER / MULTITIMER RELAYS

IKA-No.	Original	References	Technical data	Applications
9 9166 1			24V Latching Relay 20min	
				
9 9168 1			24V Latching Relay negative controlled	
				
9 9352 1			24V 10 min Latching Relay	
				
9 9388 1			24V 60s Delay OFF - standard type	
				
9 9393 1			24V 2.5s Delay ON - standard type	
				

# RELAIS SONDERANWENDUNG SPECIFIC APPLICATION

IKA-No.	Original	References	Technical data	Applications
9 9386 1			12V 20A AC-Relay	VAG 171 959 141 A
9 9376 1	VAG	1J0 819 022 A	12V blower motor resistor	A3, TT Arosa, Cordoba, Ibiza III, Leon, Toldeo II Octavia Bora, Golf IV, Lupo, New Beetle, Polo
9 9025 1	Ford	NLR-132	12V 40A Headlight Relay	
9 9111 1			12V 20/30A Changeover with BRACKET !	
9 9123 1			12V 25A Latching Relay Mechanical	
9 9124 1			12V 2x150W Latching Relay Mechanical	

# RELAIS SONDERANWENDUNG SPECIFIC APPLICATION

IKA-No.	Original	References	Technical data	Applications
9 9125 1			12V 30A Normally open with RESISTOR !	
9 9126 1			12V 30A Normally open with FUSE !	MB 001 542 96 19
9 9129 1			12V 20/30A Changeover Multifunton	MB 001 542 02 19
9 9132 1			12V 2x15A Double Contact Blower Motor Relay	MB 001 542 53 19
9 9134 1	Hella	4RA007507-061	12V 40A AC-Relay	VAG 443 919 578C
9 9135 1			12V 40A Twin Relay	

# RELAIS SONDERANWENDUNG SPECIFIC APPLICATION

IKA-No.	Original	References	Technical data	Applications	
	9 9169 1	Bosch	0 332 015 001	12V 2x20A double contact with BRACKET !	BMW 61311358170 MB A 000 545 80 05, 545 80 05 Renault 7700266296, 7700266096 Volvo 1235013
	9 9170 1	Bosch	0 332 019 110 0 332 019 453	12V 40A Normally open with BRACKET ! with RESISTOR !	Iveco 60193651 John Deere AL 20 859 5 Nissan 25230-G4900 Renault 7700810395
	9 9171 1	Cartier Valeo	03501 643810	12V 40A Normally open 2x87	BMW 34 51 154 228 Fiat 5882107, 4320629, 4320622, 9940353 Ford 87DB 15K235 AA, 81DB 15K235 AA 6165 402 John Deere AL 20 859 7 Nissan 01506584-0 Opel 90272354 Porsche 999 657 011 90 PSA 790552000, 5882107, 655117, 655504 Renault 7700590793, 7700810926
	9 9197 1			12V 70A+30A Splitcharger Relay	
	9 9294 1			12V 21W Current Relay Changeover with CLAMP !	
	9 9315 1			12V 40A T1, C1 Normally open with SKIRT !	

# RELAIS SONDERANWENDUNG SPECIFIC APPLICATION

IKA-No.	Original	References	Technical data	Applications
9 9338 1			12V internal preheating	
9 9341 1			12V 50A Normally open with BRACKET !	Nissan 1506417 Renault 7700781546, 7700810395, 7700810932  multi-purpose
9 9349 1			12V 2 x startimpuls	multi-purpose
9 9353 1			12V 40A T1, C2 Normally open with RESISTOR !	
9 9355 1			12V 40A headlight relay	Toyota 89520-1470
9 9356 1			12V 50A headlight relay	GM 94118913

# RELAIS SONDERANWENDUNG SPECIFIC APPLICATION

IKA-No.	Original	References	Technical data	Applications
	9 9359 1		12V 20A beam light relay	Isuzu 8-87173-951-0 8-97173-947-0
	9 9360 1		12V 12A surge protection	MB 116 545 00 34
	9 9363 1		12V 30A Normally open with RESISTOR ! internal preheating	VAG 171 906 383
	9 9377 1	VAG 701 959 263	12V blower motor resistor	T4
	9 9378 1	VAG Hella 6Q0 959 263, -A 5HL351321-301	12V blower motor resistor	A2 Cordoba, Ibiza IV+V Fabia, Roomster Fox, Polo
	9 9379 1	VAG 191 959 263	12V blower motor resistor	80, 90, Coupe, Cabriolet, Toledo I, Corrado Golf II, Jetta II, Passat, Scirocco

# RELAIS SONDERANWENDUNG SPECIFIC APPLICATION




IKA-No.	Original	References	Technical data	Applications
	9 9380 1 VAG Hella	1K0 959 263 A 9ML351332-371	12V blower motor resistor	A3, Q3 Alhambra, Altea, Leon, Toldeo III Octavia, Superb, Yeti Beetle, Caddy III, EOS, Golf V+VI, Jetta III, Passat Scirocco, Sharan, Tiguan, Touran
	9 9381 1 VAG		12V blower motor resistor	A6
 	9 9397 1		12V wiper/washer relay	John Deere AZ 49 989 MB 4 635 450 50 24 Opel 12 38 550, 90 069 864 VAG 191 955 531, -A
	9 9403 1		12V AC relay with DIODE !	VAG 6Q1907521, -A, -B
 	9 9140 1		24V 10/20A T3, C5 Changeover with SKIRT ! with RESISTOR !	
	9 9172 1		24V 2x10A double contact with BRACKET !	





# RELAIS SONDERANWENDUNG SPECIFIC APPLICATION

IKA-No.	Original	References	Technical data	Applications
9 9173 1			24V 10/22A Changeover with BRACKET ! with DIODE !	
9 9215 1			24V Gearbox	
9 9316 1			24V 20A T1, C1 Normally open with SKIRT !	
9 9317 1			24V 20A T1, C2 Normally open with SKIRT ! with RESISTOR !	
9 9318 1			24V 20A T1, C3 Normally open with SKIRT ! with DIODE !	
9 9319 1			24V 10/20A T3, C4 with SKIRT !	

# RELAIS SONDERANWENDUNG SPECIFIC APPLICATION

IKA-No.	Original	References	Technical data	Applications
9 9374 1	Scania	1738098 1425070	24V blower motor resistor	
				
9 9375 1	Scania	388549	24V blower motor resistor	
				
9 9389 1			24V 10/20A T3, C6 Changeover with SKIRT ! with DIODE !	
				

# SCHALTER SWITCHES

IKA-No.	Original	References	Technical data	Applications
9 9231 1	MB	124 820 46 10	Power window switch	W124 I
				
9 9232 1	MB	124 820 45 10	Power window switch	W124 II
				
9 9233 1	BMW	61 311 387 916	Power window switch	E36
				
9 9234 1	Land Rover	AMR 2496	Power window switch	Discovery II
				
9 9235 1	Fiat		Power window switch	universal
				
9 9236 1	VAG	1H0 959 855	Power window switch	Golf III Passat
				






# SCHALTER SWITCHES

IKA-No.	Original	References	Technical data	Applications
9 9331 1			universal switch unlighted	universal
				
9 9332 1			SPST ON-OFF 3 terminals illuminated	universal
				
9 9333 1			SPDT ON-OFF-ON 3 terminals unlighted	universal
				
9 9334 1			SPDT (ON)-OFF-(ON) 3 terminals unlighted	universal
				
9 9337 1			SPDT ON-OFF-ON 4 terminals illuminated	universal
				
9 9361 1	Ford	1003745 1027749 95BG-14529-AA 95BG-14529-AB	power window switch	Escort VII Mondeo I, II Scorpio II Transit
				



# SCHALTER SWITCHES

IKA-No.	Original	References	Technical data	Applications
9 9368 1	Hella MB	6HH003631-021 000 820 90 10	hazard light switch	W201, W126 S123 C123, C126 R107
				
9 9369 1	Ford	1007910 96FG-14529-BC 1E00-66-370	power window switch	Fiesta V Fusion KA, Puma Transit, Tourneo
				
9 9370 1	VAG	1J4 959 857 D	power window switch	Leon, Toledo II Bora, Golf IV+V, Passat
				
9 9371 1	VAG	1J4 959 857 B	power window switch	Leon, Toledo II Bora, Golf IV+V, Passat
				
9 9382 1	BMW	0861004	power window switch	E36
				
9 9354 1			3 x switch SPST ON-OFF 20A, 12V 3 x control lamp 12V	universal
				





# STECKSOCKEL SOCKETS

IKA-No.	Original	References	Technical data	Applications
	9 9040 1	Socket System	with Bracket 2x6.3mm, 3x4.8mm	for Micro Relay
	9 9041 1	Socket System	with Bracket 2x9.5mm, 3x6.3mm, 4x2.8mm	for HD-Relay
	9 9042 1 Bosch Liebherr	Socket System 3 334 485 008 630122908	with Bracket 5x6.3mm, 4x2.8mm	for Mini Relay BMW 1 361 496 CAT 7T 6365 Fiat 1164650, 5113898 Ford 81DB 14A481 AA, 0608 3293 5100 820 Iveco 1164650, 42098535, 8168785 John Deere AZ 26 995 MB A 006 545 14 28, A 629 821 00 31 A 638 545 00 28, A 721 185 13 51 Porsche 914 612 415 00 Renault 50 00 786 249 Volvo 13946556, 4780950, 946556 VAG 251 963 425, 321 937 501
	9 9043 1	Socket System complete with 2 terminals	with Bracket without FUSE !	for ATO Fuse
	9 9044 1	Socket System	with Bracket 3x9.5mm, 2x6.3mm, 4x2.8mm	for HD Relay changeover
	9 9237 1	Socket System	PCB mounting 5x6.3mm	for Mini Relay

# STECKSOCKEL SOCKETS



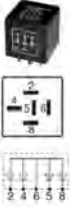
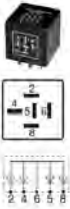


IKA-No.	Original	References	Technical data	Applications
9 9238 1		Socket System	without fixation 5x6.3mm	for Mini Relay
				
9 9239 1		Socket System	PCB mounting 2x6.3mm, 3x4.8mm	for Micro Relay
				
9 9240 1		Socket System	without fixation 2x6.3mm, 3x4.8mm	for Micro Relay
				
9 9244 1		Fuse Holder		1 x Mini-Fuse
				
9 9249 1		Fuse Holder		with wire for ATO-Fuse
				
9 9250 1		Fuse Holder		with wire for Mini-Fuse
				

# STECKSOCKEL SOCKETS

IKA-No.	Original	References	Technical data	Applications
9 9251 1		Fuse Holder		with wire for Maxi-Fuse
				
9 9254 1		Fuse Holder		with wire for ATO-Fuse
				
9 9255 1		Fuse Box	common positive pole LED lights up if fuse is blown	6x ATO-Fuse
				
9 9330 1		Fuse Holder		1 x ATO-Fuse
				



# DIVERSE GERÄTE VARIOUS DEVICES

IKA-No.	Original	References	Technical data	Applications
9 9217 1			PIN2 = P600K PIN4 = 1N5406 PIN5 = 1N4007 PIN8 = 1N4007	Diode Block
9 9218 1			1N4006	Diode Block
9 9219 1			1N5406	Diode Block
9 9220 1			1N5406	Diode Block
9 9018 1			12V 100/400A	Reversing Solenoid
9 9107 1			12V 50A	Reversing Solenoid



# DIVERSE GERÄTE VARIOUS DEVICES

IKA-No.	Original	References	Technical data	Applications
9 9216 1			12V 20A	Converter
				
9 9221 1			12V 1.2W green	Indicator Light
				
9 9222 1			12V 1.2W green C2 / white printed	Indicator Light
				
9 9223 1			12V 1.2W blue	Indicator Light
				
9 9224 1			12V 1.2W red	Indicator Light
				
9 9225 1			12V 1.2W orange	Indicator Light
				

# DIVERSE GERÄTE VARIOUS DEVICES

IKA-No.	Original	References	Technical data	Applications
9 9021 1			24V 50/200A	Reversing Solenoid
				
9 9037 1			12-24V 102dB	Back up Alarm
				
9 9038 1			12-24V 112dB	Back up Alarm
				
9 9039 1			12-24V 102dB	Back up Alarm
				
9 9226 1			24V 1.2W green	Indicator Light
				
9 9227 1			24V 1.2W blue	Indicator Light
				

# DIVERSE GERÄTE VARIOUS DEVICES

IKA-No.	Original	References	Technical data	Applications
9 9228 1			24V 1.2W red	Indicator Light
				
9 9229 1			24V 1.2W orange	Indicator light
				





**Klemmbezeichnungen nach DIN 72 552**  
**Terminal Descriptions according to DIN 72 552**

Klemme Terminal		Klemme Terminal	
15	Geschaltetes Plus hinter Batterie (Ausgang Zündschalter) Switched positive pole after battery (Output of ignition switch)	56	Scheinwerfer Headlamp
15a	Ausgang am Vorwiderstand zur Zündspule und zum Starter Output at dropping resistor to ignition coil and starter	56a	Fernlicht High beam
30	Eingang von Batterie Plus (direkt) Input from + battery terminal (direct)	56b	Abblendlicht Low beam
30a	Batterieumschaltung 12/24V, Eingang von Batterie II Plus 12/24V battery switch, input from + terminal of battery II	56d	Lichthupenkontakt Headlamp-flasher contact
31	Rückleitung ab Batterie / Minus oder Masse (direkt) Return line to battery / battery terminal or ground (direct)	84	Relaiskontakt und Antrieb, Eingang Stromrelais Relay contact and actuator, input of current relay
31b	Rückleitung an Batterie oder Masse über Schalter Return line to negative battery terminal or ground via switch	84a	Ausgang Antrieb Stromrelais Output actuator of current relay
31a	Rückleitung an Batterie II minus Return line to - terminal of battery II	84b	Relaiskontakt Ausgang Stromrelais Relay contact, output of current relay
49	Blinkgeber Eingang Flasher input	85	Wicklungsende Relais Relay, output actuator, end of winding
49a	Blinkgeber Ausgang Flasher output	86	Wicklungsanfang Relais Relay, start of winding
49b	Blinkgeber Ausgang zweiter Blinkkreis Flasher Output, second turn-signal circuit	87	Relaiskontakt Eingang Relays contact input
49c	Blinkgeber Ausgang dritter Blinkkreis Flasher Output, third turn-signal circuit	87a	Relaiskontakt Ausgang Öffnerseite Relay, first output (brake side)
53	Wischermotor Eingang (+) Wiper motor input (+)	87b	Relaiskontakt 2, Ausgang Relay, second output
53a	Wischer (+) Endabstellung Wiper (+), self-parking switch-off	87c	Relaiskontakt 3, Ausgang Relay, third output
53b	Wischer Nebenschlusswicklung Wiper (shunt winding)	C	1. Kontrolllampe First indicator lamp
53c	Elektrische Scheibenspülerpumpe Electric windshield-washer pump	C0	Hauptanschluss für vom Blinker getrennte Kontrollkreise Main terminal connection for separate indicator circuits
53e	Wischer Bremswicklung Wiper (brake winding)	C2	2. Kontrolllampe Second indicator lamp
55	Nebelscheinwerfer Fog lamps	C3	3. Kontrolllampe Third indicator lamp

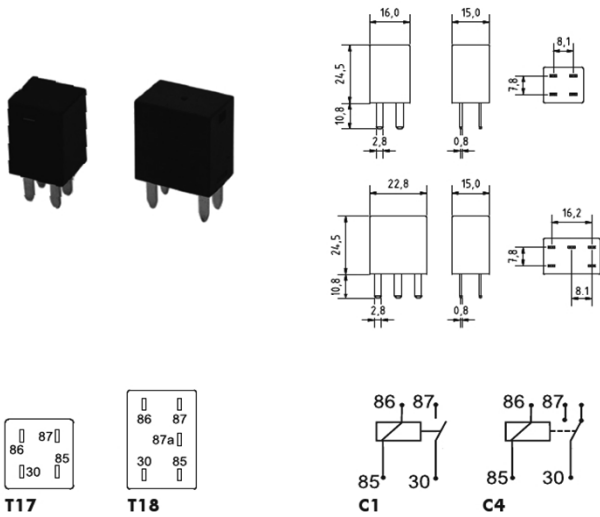
**Klemmenbelegung Blinkgeber**  
**Terminals Connection of Flasher**

Country	E, F, I,	D	USA, CA, UK	Japan
Standard	SAE	DIN		
Battery +	+	49	X	B
Ground	-	31		E
Switch	C	49a	L	L
Control Lamp Vehicle	R	C	P	
Control Lamp Trailer	R2	C2		

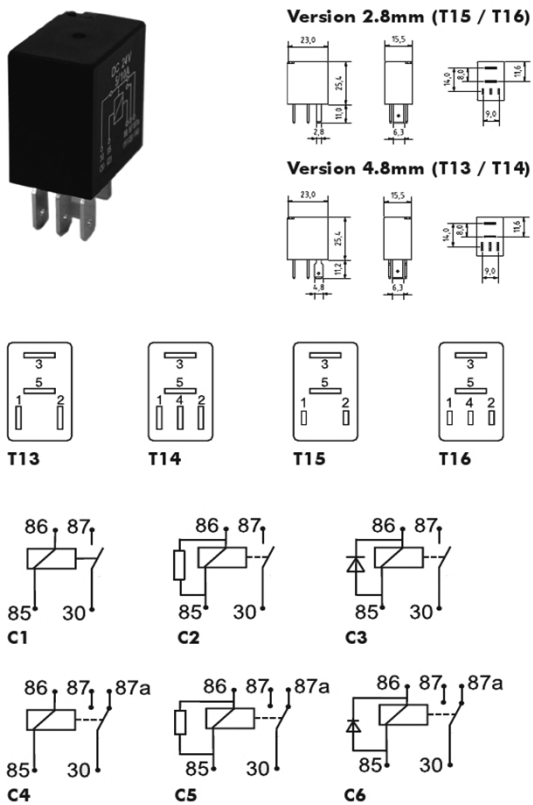
  

			
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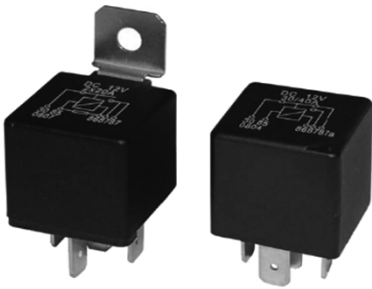
Ultra Micro Relays / Ultra Mikro Relais



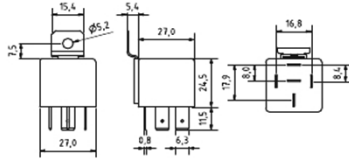
Micro Relays / Mikro Relais



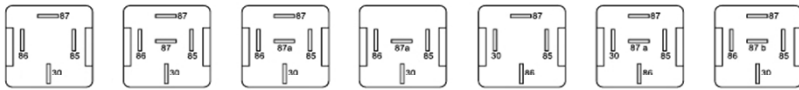
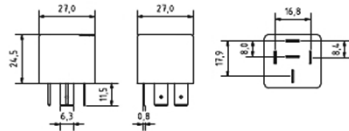
Mini Relays / Mini Relais



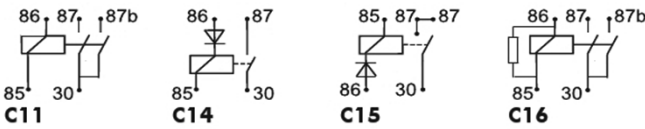
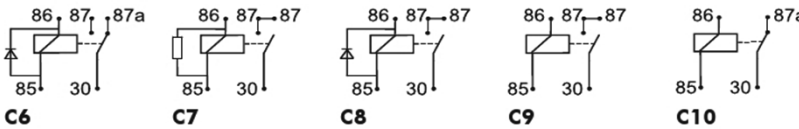
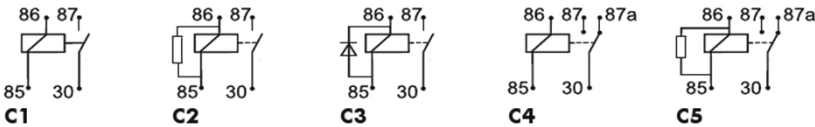
Mit Lasche / With Bracket



Ohne Lasche / Without Bracket



T1 T2 T3 T4 T9 T10 T11

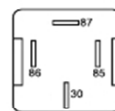
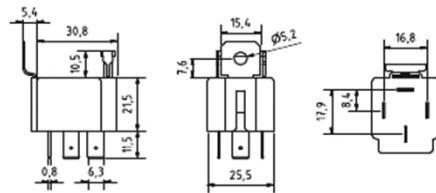


Relays with fuse / Relais mit Sicherung

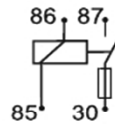


Die Kontaktbelastbarkeit bei 12V beträgt 30A. Das Relais ist mit einer 15A-Sicherung ausgestattet. Andere Sicherungen sind auf Wunsch verfügbar.

The rated load at 12V is 30A. The relay is equipped with a 15A fuse. Other fuses are available on demand.



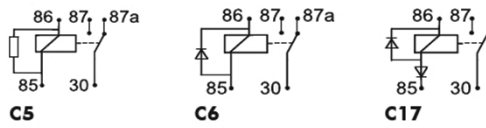
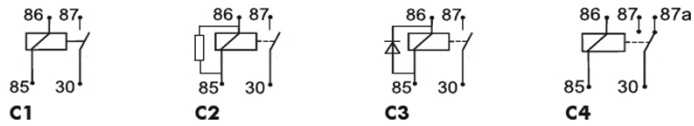
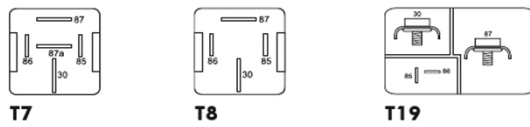
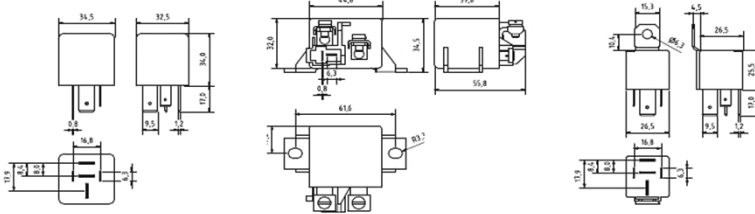
T1



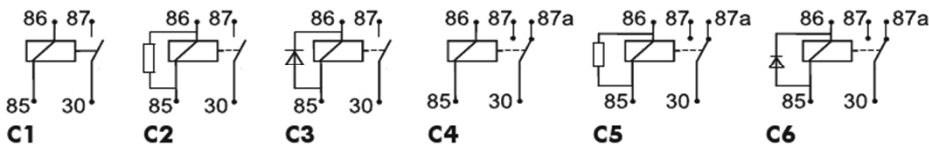
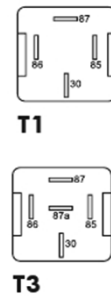
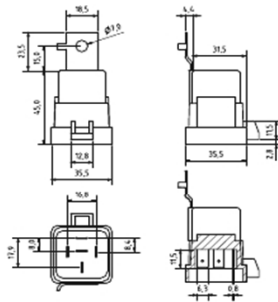
C12



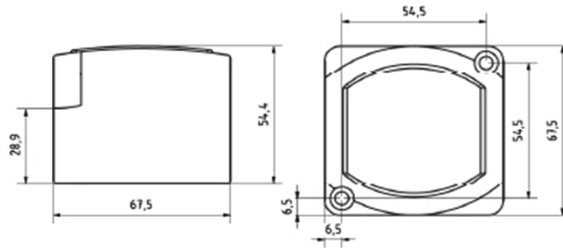
## HD Relays / Hochleistungsrelais



## Relays with Skirt / Relais mit Schürze



**Intelligentes Batterietrennrelais / Voltage Sensitive Battery Relay**



**Für Einzelbatterie / For Single Battery**

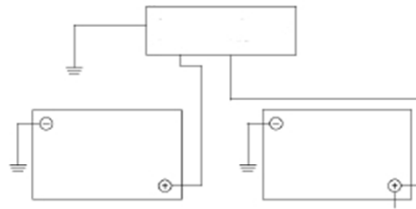
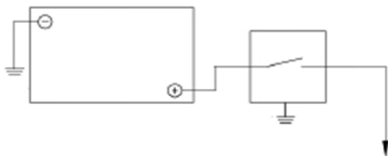
Erreicht die Batteriespannung 12.8 V, wird das vollautomatische Batterietrennrelais aktiv und verbindet zusätzliche Verbraucher mit der Batterie. Die Kontrolleuchte schaltet ab. Fällt die Spannung unter 11 V, erkennt das Relais dies und trennt die Verbraucher von der Batterie. Die Kontrolleuchte schaltet ein. Dieses System verhindert, dass sich die Anlasserbatterie entlädt und schützt die empfindliche Elektronik vor Spannungsspitzen, die beim Starten des Motors entstehen können.

If the battery voltage reaches 12.8 V, the battery protection pulls in and connects the loads to the battery. The control LED is off now. If the voltage drops below 11 V, the relay detects this and disconnects the loads from the battery. The control LED is on now. This system prevents the starter battery from discharging and protects the sensitive electronic equipment from harmful engine start up spikes.

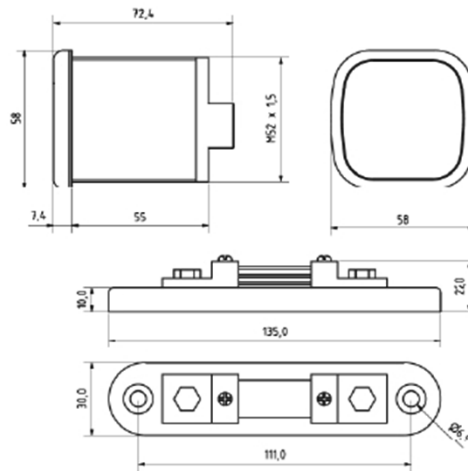
**Für zwei Batterien / For Dual Battery use**

Das spannungsabhängige Relais erlaubt es, zwei Batterien gleichzeitig zu laden. Wird bei laufendem Motor eine Spannung von über 13.3 V erreicht, zieht das Relais an und die Zweitbatterie wird zusätzlich zur Primärbatterie geladen. Schaltet man den Motor aus, fällt die Bordspannung unter 12.8 V und das Relais trennt die Anlasserbatterie von der Zweitbatterie. Dieses System verhindert, dass sich die Anlasserbatterie entlädt und schützt die empfindliche Elektronik, die an der Zweitbatterie angeschlossen ist, vor Spannungsspitzen, die beim Starten des Motors entstehen können.

The voltage sensitive Relay allows two batteries being charged at the same time. When the engine is started and the start battery reaches 13.3 V, the relay pulls in, allowing the two battery banks (start and house) to be charged simultaneously. When the voltage drops below 12.8 V, (the engine has stopped), the relay drops out, separating these batteries. This system prevents the starter battery from discharging and protects sensitive electronic equipment powered by the house battery from harmful start up spikes.



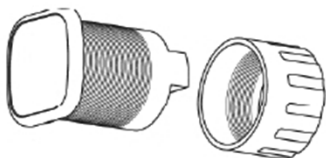
**Überwachungsanzeige für Doppelbatteriesysteme  
 Monitor for Twin Battery Systems**



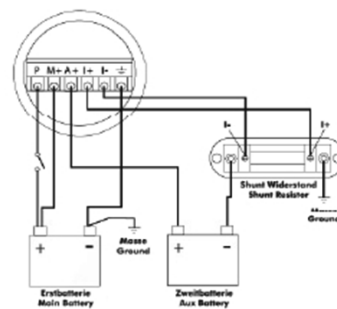
Beim Einschalten werden die Spannungen an Erst- und Zweitbatterie im LCD-Display angezeigt. Nach Betätigen des Batterieknopfes können Strom und Spannung der Zweitbatterie abgelesen werden. Das Display misst die Stromrichtung und erkennt dadurch, wann die Zweitbatterie entladen ist. Dies wird auf dem LCD-Display angezeigt. Fällt die Spannung an der Zweitbatterie unter 11.5 V, wird der Summer aktiviert. Der Summer kann durch das Drücken der Summertaste quitiert werden. Die Anzeige weist weiterhin auf den Entladezustand der Batterie hin.

The voltages of the main and auxiliary batteries are shown when the battery monitor is started. After changing the LCD-display by pressing the battery button, the auxiliary battery's voltage and current are shown. The display is measuring the current direction. If the auxiliary battery is discharged, it will be shown on the LCD-display. If the voltage of the auxiliary battery is lower than 11.5 V a buzzer starts. The buzzer can be turned off by pressing the buzzer button. The display keeps showing the discharging status of the auxiliary battery.

**Schraubbefestigung  
 Bolt on Mounting**



**Displayinformation  
 Display Information**



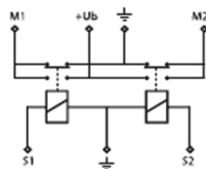
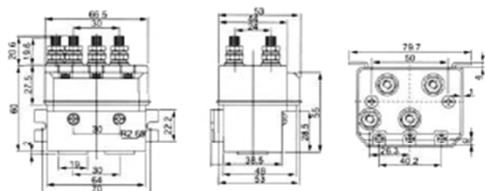
## Umpolrelais / Reversing Solenoid



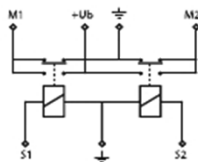
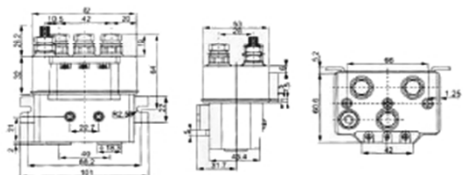
Die Anschlüsse M1 und M2 sind mit einem Motor (z.B. Seilwinde) verbunden. Im Ruhezustand haben M1 und M2 Massepotenzial. Wird Kontakt S1 an die Betriebsspannung angeschlossen, so schließt der Magnetschalter 1. Dadurch hat M1 ein Spannungspotenzial von +Ub, M2 liegt weiterhin auf Masse. Der Motor dreht sich. Nimmt man die Spannung von S1 und schaltet nun S2 +Ub, so fällt Magnetschalter 1 ab und Magnetschalter 2 zieht an. M1 hat nun Massepotenzial und M2 ein Spannungspotenzial von +Ub. Der Motor dreht sich in die entgegengesetzte Richtung.

Terminals M1 and M2 are connected to the motor (e.g. of a winch). At non-operating state both, M1 and M2, are connected to ground. If terminal S1 is connected to +Ub, solenoid 1 pulls in. Now, M1 is connected to +Ub, M2 is still connected to ground. The motor spins. If the current on S1 is disconnected and S2 will be connected to +Ub instead, solenoid 1 drops out and solenoid 2 pulls in. Now, M1 is connected to ground and M2 is connected to +Ub. The motor spins into the other direction.

**9 9107 1**    12V    50A

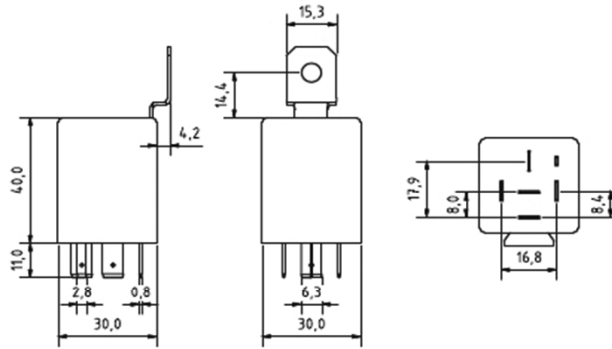


**9 9018 1**    12V    100A  
**9 9021 1**    24V    50A

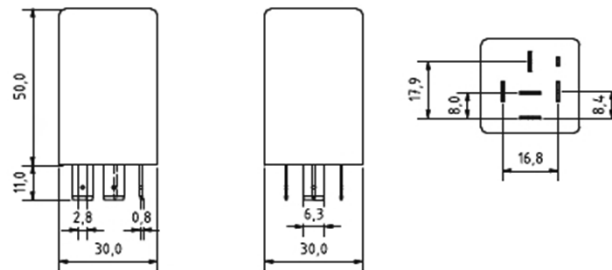


Zeit- und Funktionsrelais / Timer Relays

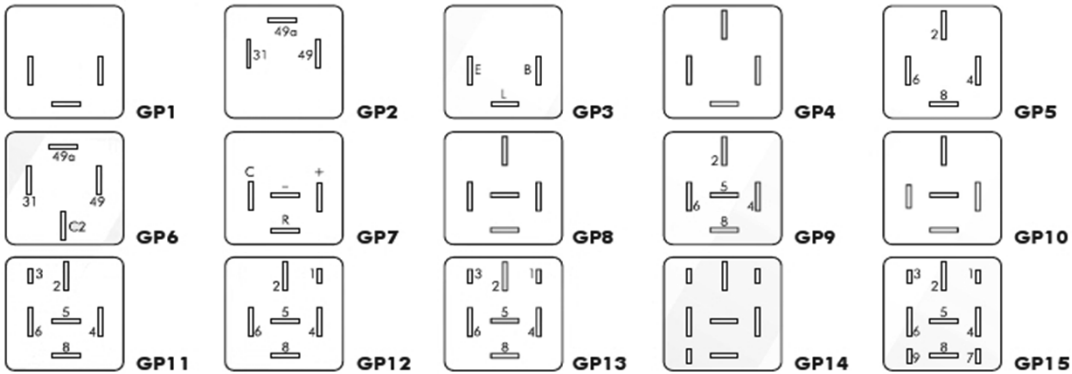
**Standard-Variante**  
**Standard type**



**Erweiterte Variante mit frei wählbarem Steckerbild**  
**Extended type with freely selectable terminal configuration**



Verfügbare Steckerbilder  
 Available terminal configurations



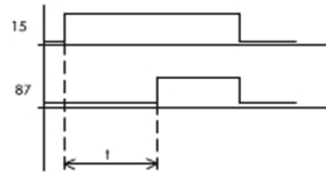
2-1119

## Zeit- und Funktionsrelais / Timer Relays

### Anzugsverzögert - Standard-Variante Delay On - Standard Type

Versorgungsspannung wird an Klemme 30 und Masse an Klemme 31 angelegt. Wird an Klemme 15 Versorgungsspannung angelegt, zieht das Relais nach der programmierten Zeit  $t$  an. Wird Klemme 15 wieder geöffnet, fällt das Relais sofort ab.

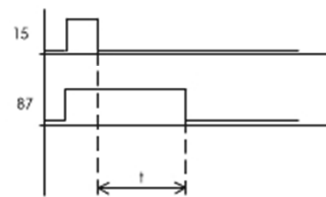
Apply supply voltage on terminal 30 and ground on terminal 31. After applying supply voltage on terminal 15, the relay will pull in after the programmed period  $t$ . When terminal 15 is opened, the relay drops back instantly.



### Abfallverzögert - Standard-Variante Delay Off - Standard Type

Versorgungsspannung wird an Klemme 30 und Masse an Klemme 31 angelegt. Wird an Klemme 15 Versorgungsspannung angelegt, zieht das Relais sofort an. Wird Klemme 15 wieder geöffnet, fällt das Relais nach der programmierten Zeit  $t$  wieder ab.

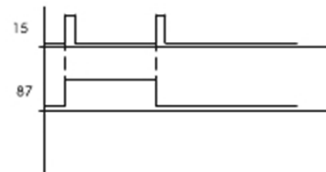
Apply supply voltage on terminal 30 and ground on terminal 31. After applying supply voltage on terminal 15, the relay pulls in instantly. When terminal 15 is opened, the relay drops back after the programmed period  $t$ .



### Flip Flop Relais - Standard-Variante Latching Relay - Standard Type

Versorgungsspannung wird an Klemme 30 und Masse an Klemme 31 angelegt. Bei jedem Impuls an Klemme 15 wechselt der Schaltzustand in die jeweils andere Position.

Apply supply voltage on terminal 30 and ground on terminal 31. With each pulse on terminal 15, the relay switches to the other position.



### Impulsrelais - Standard-Variante Pulse Relay - Standard Type

Versorgungsspannung wird an Klemme 30 und Masse an Klemme 31 angelegt. Wird an Klemme 15 Versorgungsspannung angelegt, zieht das Relais sofort an. Wenn die Spannung an Klemme 15 weggenommen wird, fällt das Relais sofort ab. Liegt dauerhaft Spannung an Klemme 15, fällt das Relais nach der programmierten Zeit  $t$  ab.

Apply supply voltage on terminal 30 and ground on terminal 31. After applying supply voltage on terminal 15, the relay pulls in instantly. When terminal 15 is opened, the relay drops back instantly. If constant voltage is supplied on terminal 15, the relay will drop back after the programmed period  $t$ .



# VERGLEICHSLISTE CROSS REFERENCE LIST

BERU	IKA	PAGE	BMW	IKA	PAGE	BOSCH	IKA	PAGE
144 260 100	9 9299 1	31	1 243 565	9 9027 1	20	0 281 003 099	9 9202 1	31
GR001	9 9299 1	31	1 244 314	9 9027 1	20	0 332 002 192	9 9138 1	16
GR064	9 9204 1	31	1 244 377	9 9027 1	20	0 332 003 011	9 9297 1	7
GR073-B	9 9205 1	31	1 244 377	9 9026 1	20	0 332 003 012	9 9008 1	10
GR081	9 9413 1	33	1 244 392	9 9026 1	20	0 332 003 018	9 9065 1	10
			1 244 392	9 9027 1	20	0 332 014 107	9 9005 1	6
			1 361 496	9 9042 1	58	0 332 014 113	9 9005 1	6
			1 365 113	9 9027 1	20	0 332 014 118	9 9005 1	6
			1 365 113	9 9026 1	20	0 332 014 119	9 9005 1	6
			1 366 727	9 9027 1	20	0 332 014 125	9 9005 1	6
			1 371 539	9 9027 1	20	0 332 014 150	9 9005 1	6
			1 371 539	9 9026 1	20	0 332 014 202	9 9065 1	10
			1 371 907	9 9026 1	20	0 332 014 203	9 9065 1	10
			1 371 907	9 9027 1	20	0 332 014 213	9 9065 1	10
			1 378 302	9 9008 1	10	0 332 014 406	9 9005 1	6
			1 388 533	9 9196 1	22	0 332 014 408	9 9069 1	11
			1351317	9 9297 1	7	0 332 014 409	9 9297 1	7
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0 332 204 802	9 9009 1	10	160080	9 9001 1	5	7T 6365	9 9042 1	58
0 332 207 100	9 9056 1	2	160081	9 9004 1	6			
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4320625	9 9005 1	6	0407 8559	9 9177 1	21	88BG8B658AA	9 9204 1	31
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4792112	9 9198 1	30	0604 8781	9 9177 1	21	9M5Q-12A343-AA	9 9409 1	33
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66107B	9 9064 1	10	132023	9 9208 1	39	8-94128-856-0	9 9357 1	31
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66132	9 9138 1	16	132061	9 9299 1	31	8-99201-790-A	9 9357 1	31
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0 116 4018	9 9009 1	10	014372	9 9009 1	10	0K934 18821	9 9297 1	7
0 116 4648	9 9009 1	10	15730019	9 9009 1	10			
0 124 5710	9 9009 1	10	59024	9 9009 1	10			
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1164650	9 9042 1	58	AL 20 859 7	9 9171 1	49			
1172393	9 9064 1	10	AL29657	9 9004 1	6			
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42098535	9 9042 1	58	AZ 26 996	9 9001 1	5			
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			BRE/5-12	9 9405 1	32	11067BN700	9 9049 1	30
			FGF/8-12	9 9411 1	33	11067JD50B	9 9404 1	32
			FGPR/8-12	9 9410 1	33	11067JD50C	9 9410 1	33
			ITA/4-12	9 9396 1	23	1506417	9 9341 1	50
			ITA/5-12	9 9180 1	21	25230-69T00	9 9203 1	31
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			ITRD/6-12	9 9346 1	23	25230-G4900	9 9170 1	49
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			MRS/12-20	9 9048 1	1			
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			PBCIF/8-12	9 9409 1	33			
			PPX/5-12	9 9201 1	30			
			RCS/8-12	9 9404 1	32			
			RDP/5-12	9 9169 1	49			
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			RLGL/60-12	9 9203 1	31			
			RLP/4-12R	9 9170 1	49			
			RLP/52-24	9 9063 1	10			
			RLPS/5-12	9 9171 1	49			
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			TPMS/4-12	9 9045 1	30			
			TPMS/6-12	9 9046 1	30			
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549040486	9 9396 1	23	50 06 143 961	9 9064 1	10	85 53 463	9 9397 1	52
5882107	9 9171 1	49	50 10 306 869	9 9064 1	10			
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598110	9 9199 1	30	55 00 504 445	9 9064 1	10			
598113	9 9199 1	30	77 00 807 154	9 9308 1	9			
598119	9 9201 1	30	7700109860	9 9405 1	32			
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			611102	9 9026 1	20			

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100 221 000	9 9050 1	1	101 410 151	9 9007 1	10	102 452 000	9 9102 1	18
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106 242 001	9 9315 1	49	121 240 200	9 9171 1	49	144 200 308	9 9405 1	32
106 242 011	9 9353 1	50	121 250 003	9 9341 1	50	144 200 512	9 9198 1	30
106 422 001	9 9316 1	53	121 410 303	9 9172 1	52	144 200 712	9 9049 1	30
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106 422 021	9 9318 1	53	122 270 000	9 9174 1	16	144 201 001	9 9046 1	30
106 422 101	9 9319 1	53	122 270 003	9 9175 1	17	144 201 212	9 9199 1	30
106 422 111	9 9140 1	52	130 242 100	9 9026 1	20	144 202 812	9 9410 1	33
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