

AUSGABE
EDITION

2016/2017

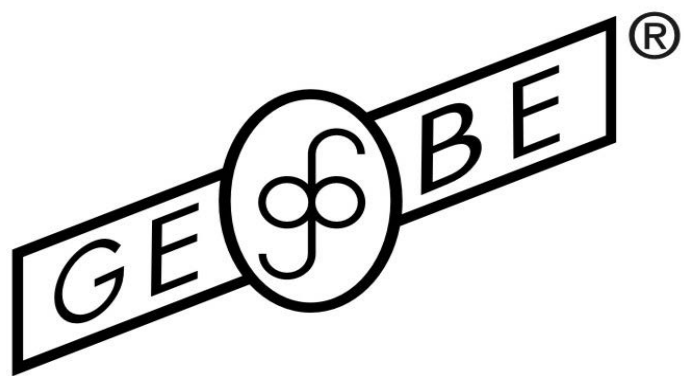
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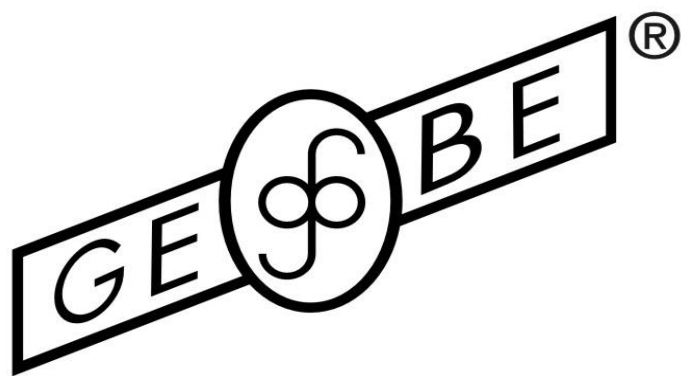
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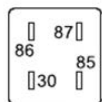
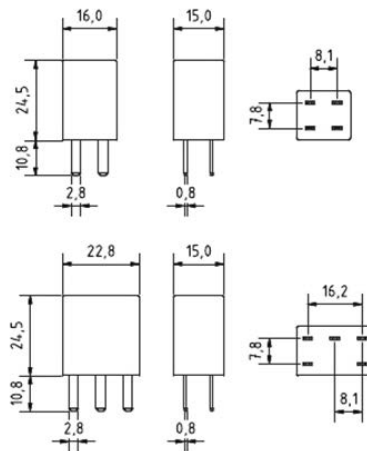
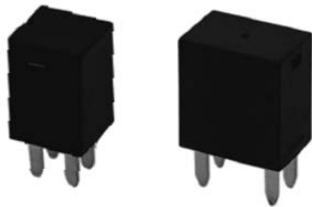
INHALTSVERZEICHNIS - INDEX - SOMMAIRE

RELAYS/DEVICES 2016/2017

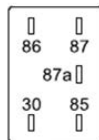
	Seite - Page
MIKRO / ULTRAMIKRO RELAIS MICRO / ULTRA MICRO RELAYS	1 - 6
MINI RELAIS MINI RELAYS	7 - 16
HOCHLEISTUNGSRELAIS HD RELAYS	17 - 23
RELAIS MIT SCHÜRZE RELAYS WITH SKIRT	24 - 25
BLINKGEBER FLASHERS / PULSE GENERATORS	26 - 33
LÜFTERSTEUERUNGEN FAN REGULATORS	34 - 36
WIDERSTAND INNENRAUMGEBLÄSE BLOWER MOTOR RESISTOR	37 - 38
GLÜHZEITRELAIS PREHEATING RELAYS	39 - 46
BSR RELAIS VSR RELAYS	47 - 49
BATTERIEMANAGEMENT BATTERY MANAGEMENT	50 - 53
KRAFTSTOFFPUMPENRELAIS FUEL PUMP RELAYS	54 - 56
ZEIT- / FUNKTIONSRÉLAIS TIMER / MULTITIMER RELAYS	57 - 65
RELAIS SONDERANWENDUNG SPECIFIC APPLICATION	66 - 71
SCHALTER SWITCHES	72 - 75
STECKSOCKEL SOCKETS	76 - 79
DIVERSE GERÄTE VARIOUS DEVICES	80 - 83
TECHNISCHE INFORMATIONEN TECHNICAL INFORMATION	84 - 87
VERGLEICHLISTE CROSS REFERENCE LIST	88 - 100



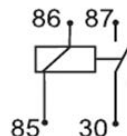
Ultra Micro Relays / Ultra Mikro Relais



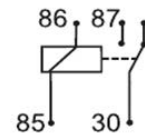
T17



T18

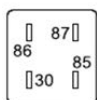
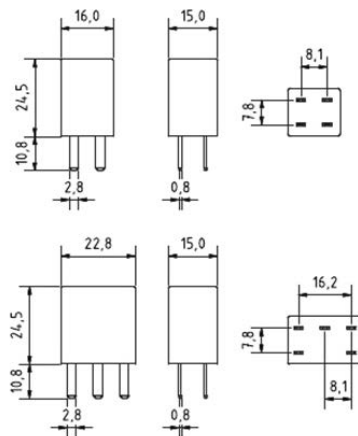
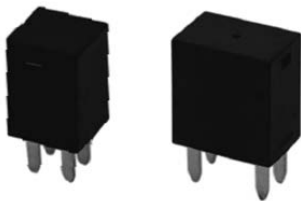


C1

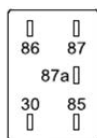


C4

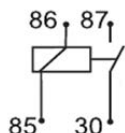
Micro Relays / Mikro Relais



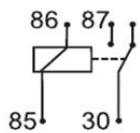
T17



T18


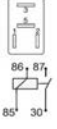

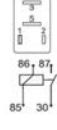



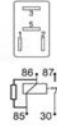

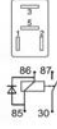




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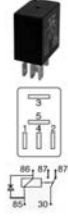

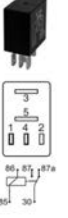
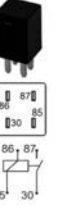
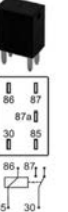
C4

MIKRO / ULTRAMIKRO RELAIS MICRO / ULTRA MICRO RELAYS








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

MIKRO / ULTRAMIKRO RELAIS

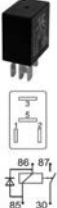
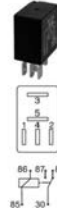


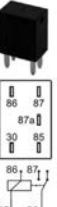

MICRO / ULTRA MICRO RELAYS

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



MIKRO / ULTRAMIKRO RELAIS MICRO / ULTRA MICRO RELAYS

IKA-No.	Configuration	Original	References	Technical data	Applications
NEW 9 9429 1	T18 C4			12V, ULTRA MICRO 20/30A Normally open	
					
9 9059 1	T13 C1			24V, MICRO 15A Normally open	
  					
NEW 9 9139 1	T14 C5			24V, MICRO 5/10 A SEALED ! with RESISTOR ! yellow housing	
					
9 9286 1	T15 C1			24V, MICRO 15A Normally open 2.8mm	
  					
9 9287 1	T15 C3			24V, MICRO 15A Normally open 2.8mm with DIODE !	
  					
9 9288 1	T16 C4			24V, MICRO 5/10A Changeover 2.8mm	
  					

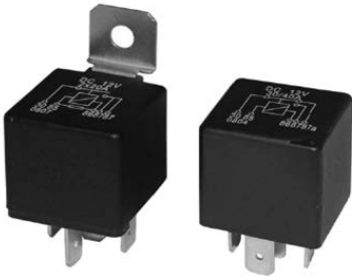
MIKRO / ULTRAMIKRO RELAIS MICRO / ULTRA MICRO RELAYS

IKA-No.	Configuration	Original	References	Technical data	Applications
9 9289 1	T13 C3			24V, MICRO 10A Normally open SEALED ! with DIODE !	
					
9 9290 1	T14 C4			24V, MICRO 10/15A Changeover SEALED !	
					
9 9291 1	T14 C5			24V, MICRO 10/15A Changeover SEALED ! with RESISTOR !	
					
9 9292 1	T14 C6			24V, MICRO 5/10A Changeover SEALED ! with DIODE !	
					
9 9384 1	T18 C4			24V, ULTRA MICRO 10/20A Changeover	
					
9 9412 1	T15 C1			24V, MICRO 15A Normally open 2.8mm SEALED!	
					

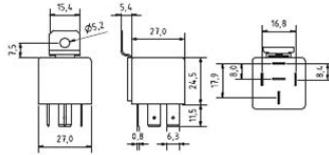
MIKRO / ULTRAMIKRO RELAIS MICRO / ULTRA MICRO RELAYS

IKA-No.	Configuration Original	References	Technical data	Applications
NEW 9 9422 1	T15 C3		24V, MICRO 15A Normally open 2.8mm SEALED! with DIODE!	
				
NEW 9 9425 1	T13 C2		24V, MICRO 10A Normally open with RESISTOR !	
				

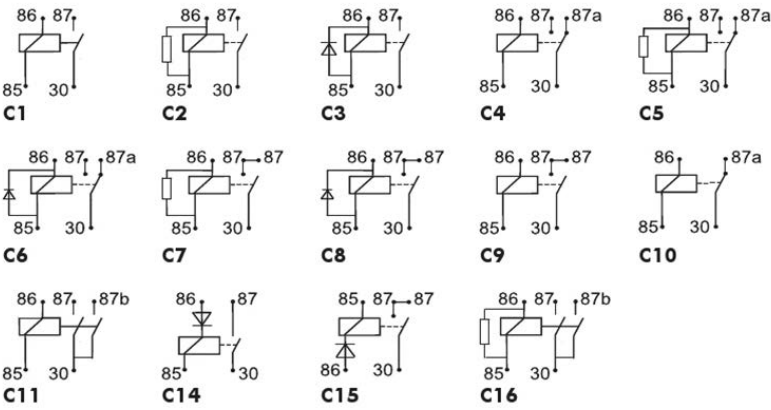
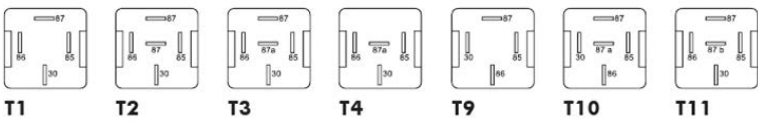
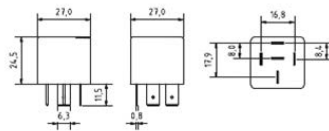
Mini Relays / Mini Relais



Mit Lasche / With Bracket



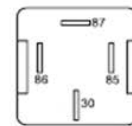
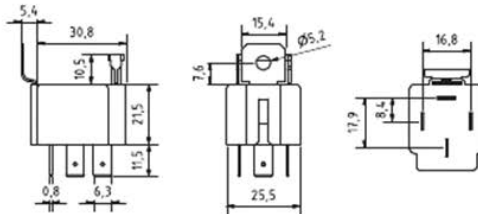
Ohne Lasche / Without Bracket



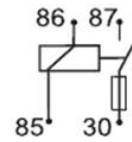
Relays with fuse / Relais mit Sicherung

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


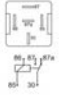



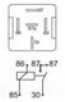

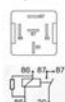



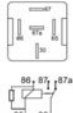
MINI RELAIS

MINI RELAYS

IKA-No.	Configuration	Original	References	Technical data	Applications
9 9010 1   	T1 C12			6V 15A Normally open with FUSE !	
9 9078 1   	T2 C9			6V 40A Normally open 2x87 with BRACKET !	
9 9112 1   	T3 C4			6V 30/40A Changeover with BRACKET !	
9 9000 1   	T1 C12	Bosch Hella	0 332 019 451 4RA003 510-361 4RA003 530-001,003,-007, -363,-367	12V 15A Normally open with FUSE !	Fendt X830250024000 Opel 1238587, 90008100, 03447012 Porsche 91161510301 Volvo 2813702,3542997,43733670
9 9001 1   	T1 C1	Bosch Hella Lucas SWF Valeo VDO	0 332 003 011 0 332 014 119,-134,-150 -406,-409 4RA003510-082 SRB520 / SRB536 611000 601063, 601253, 611000 V23134-B0052-C642 V23134-B1052-C642	12V 30A 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   	T1 C1	Hella	66202 / -J 4RA003 510-111 4RA933 332-101	12V 40A Normally open with BRACKET !	Fendt D450 600 21



















MINI RELAIS

MINI RELAYS

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







MINI RELAIS

MINI RELAYS

IKA-No.	Configuration	Original	References	Technical data	Applications
9 9062 1   	T3 C6			12V 30/40A Changeover SEALED ! with DIODE !	
NEW 9 9157 1   	T1 C1			12V 40A Normally open	
9 9293 1   	T4 C10			12V 20A Normally closed with BRACKET !	
9 9295 1   	T11 C11			12V 2x25A double contact with BRACKET !	
9 9296 1   	T11 C16			12V 2x25A double contact with BRACKET ! with RESISTOR !	
9 9297 1   	T9 C1	Bosch Hella Lucas	0 332 003 011 0 332 014 409 0 332 019 453 4RA003510-081, -661 SRB523	12V 30A Normally open with BRACKET !	BMW 1 351 317, 1 353 789 Ford 6050578, 6059235 Iveco 0 335 8306 Opel 1238611, 43206400 Volvo 672599 VAG KDWHLO9402

MINI RELAIS

MINI RELAYS

IKA-No.	Configuration	Original	References	Technical data	Applications
9 9298 1 	T10 C4	Bosch Lucas	0 332 204 402 SRB527	12V 20/30A Changeover with BRACKET !	Volvo 268775
9 9300 1 	T1 C2			12V 30A Normally open SEALED ! with RESISTOR !	
9 9301 1 	T3 C5			12V 20/30A Changeover SEALED ! with RESISTOR !	
9 9302 1 	T9 C2			12V 30A Normally open SEALED ! with RESISTOR !	
9 9303 1 	T10 C5			12V 20/30A Changeover SEALED ! with RESISTOR !	
9 9304 1 	T1 C2			12V 40A Normally open with RESISTOR !	


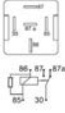

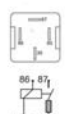








MINI RELAIS

MINI RELAYS

IKA-No.	Configuration	Original	References	Technical data	Applications
9 9305 1	T1 C2	Bosch	0 332 014 106 0 332 019 103, -110 0 986 332 002, -003	12V 40A Normally open with BRACKET ! with RESISTOR !	VAG 141 951 253 B 431 951 253 H 8D0 951 253 A
		Hella	4RA003510-067		
9 9306 1	T1 C3			12V 40A Normally open with BRACKET ! with DIODE !	
9 9307 1	T3 C5	Bosch	0 332 204 109 0 332 209 137, -138, -159 -161, -167	12V 30/40A Changeover with BRACKET ! with RESISTOR !	MB 210 824 00 18 PSA 6555 68, 6555 88 VAG 191 927 841 431 951 253 D
		Hella	4RD003520-241		
9 9308 1	T3 C6	Bosch	0 332 209 135 0 332 208 152 0 332 209 158	12V 30/40A Changeover with BRACKET ! with DIODE !	Iveco 5158609, 99434621 Renault 77 00 807 154 Volvo 1 324 492
9 9309 1	T2 C8			12V 40A Normally open 2x87 with BRACKET ! with DIODE !	
9 9310 1	T9 C3			12V 40A Normally open with BRACKET ! with DIODE !	


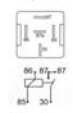

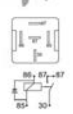

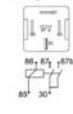

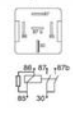

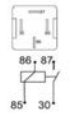

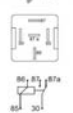
MINI RELAIS

MINI RELAYS

IKA-No.	Configuration	Original	References	Technical data	Applications
9 9314 1  	T10 C5			12V 20/30A Changeover with BRACKET !	
9 9007 1  	T1 C12			24V 15A Normally open with FUSE !	
9 9008 1  	T9 C1	Bosch Hella Lucas VDO	0 332 003 012 4RA003510-151,-157 4RA933332-111,-117 SRB530 V23134-B0053-C642 V23134-B1053-C642	24V 20A Normally open with BRACKET !	BMW 1 378 302 Scania 235940 VW 183 951 253
9 9009 1  	T3 C4	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 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  	T3 C5	Bosch Hella	0 332 204 206 0 332 204 207 66106, -B 87115, -B 4RD003520-227	24V 10/20A Changeover with BRACKET ! with FUSE ! with RESISTOR !	Iveco 9267701 Fiat 1164018 MB 000 820 17 10
9 9064 1  	T3 C6	Bosch Hella	0 332 204 204, -212 -213,-214 0 332 209 204 66107, -B 4RD003520-151 -157	24V 10/20A Changeover with BRACKET ! with FUSE ! with DIODE !	Hanomag 3097 003 M1, 4901 665 M1 MB 000 545 58 05 Renault 55 00 504 445



















MINI RELAIS

MINI RELAYS

IKA-No.	Configuration	Original	References	Technical data	Applications
9 9065 1  	T2 C9	Bosch	0 332 003 018 0 332 014 202, -203 -213	24V 20A 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
		Hella	0 332 019 203, -213 87116		
9 9066 1  	T2 C8			24V 20A Normally open 2x87 with BRACKET ! with FUSE ! with DIODE !	
9 9067 1  	T11 C11			24V 2x15A Double Contact with BRACKET ! with FUSE !	MAN 812 590 20133
9 9068 1  	T11 C16			24V 2x15A Double Contact with BRACKET ! with FUSE ! with RESISTOR !	
9 9069 1  	T9 C1	Bosch	0 332 014 408	24V 20A Normally open with BRACKET !	
		Hella	4RA003510-091		
		Lucas	SRB533		
9 9070 1  	T10 C4			24V 10/20A Changeover with BRACKET !	










MINI RELAIS

MINI RELAYS



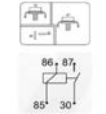

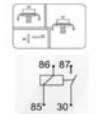
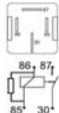



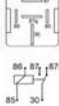
IKA-No.	Configuration	Original	References	Technical data	Applications
9 9071 1   	T1 C2			24V 20A Normally open SEALED ! with RESISTOR !	
9 9072 1   	T3 C4			24V 10/20A Changeover SEALED !	
9 9073 1   	T3 C5			24V 10/20A Changeover SEALED ! with RESISTOR !	
9 9074 1   	T3 C6			24V 10/20A Changeover SEALED ! with FUSE ! with DIODE !	
9 9075 1   	T10 C5			24V 10/20A Changeover SEALED ! with FUSE ! with RESISTOR !	
9 9076 1   	T1 C3			24V 30A Normally open with BRACKET ! with DIODE !	

MINI RELAIS


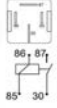

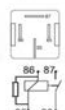

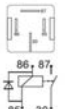

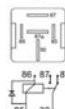

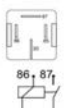

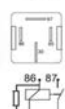
MINI RELAYS

IKA-No.	Configuration	Original	References	Technical data	Applications
9 9077 1   	T9 C3			24V 30A Normally open with BRACKET ! with DIODE !	
9 9105 1   	T1 C3			24V 20A Normally open with BRACKET ! with DIODE !	
9 9079 1   	T3 C4			48V 5/10A Changeover with BRACKET ! with FUSE !	

















HOCHLEISTUNGSRELAIS HD RELAYS

IKA-No.	Configuration	Original	References	Technical data	Applications
9 9011 1  	T8 C1	Hella	4RA003437-047	12V 70A 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  	T19 C1			12V 75A Normally open with BRACKET !	
9 9013 1  	T19 C17			12V 75A Normally open with BRACKET ! with DIODE !	
9 9080 1  	T8 C2			12V 70A Normally open with BRACKET ! with RESISTOR !	
9 9082 1  	T8 C3			12V 70A Normally open with BRACKET ! with DIODE !	
9 9083 1  	T7 C4			12V 60/70A Changeover with BRACKET !	



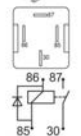



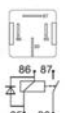



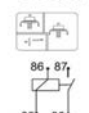
HOCHLEISTUNGSRELAIS HD RELAYS

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

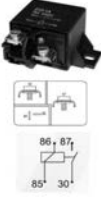


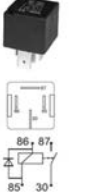

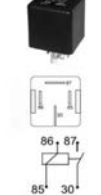
HOCHLEISTUNGSRELAIS HD RELAYS

IKA-No.	Configuration	Original	References	Technical data	Applications
9 9090 1   	T8 C3			12V 100A Normally open SEALED ! with DIODE !	
9 9091 1   	T7 C4			12V 80/100A Changeover SEALED !	
9 9092 1   	T7 C5			12V 80/100A Changeover SEALED ! with RESISTOR !	
9 9093 1   	T7 C6			12V 80/100A Changeover SEALED ! with DIODE !	
9 9138 1   	T8 C2	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 	T8 C1			12V 70A	













HOCHLEISTUNGSRELAIS HD RELAYS

IKA-No.	Configuration	Original	References	Technical data	Applications
9 9175 1 	T8 C2			12V 70A with BRACKET ! with RESISTOR!	
NEW 9 9420 1  	T8 C3			12V 70A Normally open with DIODE !	
9 9014 1  	T8 C1			24V 70A Normally open with BRACKET !	
9 9094 1  	T8 C1			24V 40A Normally Open with BRACKET !	
9 9095 1  	T7 C4			24V 30/40A Changeover with BRACKET !	
9 9096 1  	T19 C1			24V 50A Normally open with BRACKET !	

HOCHLEISTUNGSRELAIS HD RELAYS

IKA-No.	Configuration	Original	References	Technical data	Applications
9 9097 1	T19 C17			24V 50A Normally open with BRACKET ! with DIODE !	
					
9 9098 1	T8 C1			24V 40A Normally open SEALED !	
					
9 9099 1	T8 C2			24V 40A Normally open SEALED ! with DIODE !	
					
9 9100 1	T8 C3			24V 40A Normally open SEALED ! with DIODE !	
					
9 9101 1	T7 C6			24V 30/40A Changeover SEALED ! with DIODE !	
					
9 9102 1	T8 C1			24V 50A Normally open SEALED !	
					

HOCHLEISTUNGSRELAIS HD RELAYS

IKA-No.	Configuration	Original	References	Technical data	Applications
9 9103 1   	T8 C2			24V 50A Normally open SEALED ! with RESISTOR !	
9 9104 1   	T7 C4			24V 40/50A Changeover SEALED !	
9 9312 1   	T8 C2			24V 70A Normally open with RESISTOR !	
9 9313 1   	T8 C2			24V 70A Normally open with BRACKET ! with RESISTOR !	

RELAIS MIT SCHÜRZE

RELAYS WITH SKIRT

IKA-No.	Configuration	Original	References	Technical data	Applications
9 9315 1				12V 40A T1, C1 Normally open with SKIRT !	
9 9353 1				12V 40A T1, C2 Normally open with SKIRT ! with RESISTOR !	
9 9140 1				24V 10/20A T3, C5 Changeover with SKIRT ! with RESISTOR !	
9 9316 1	T1 C1			24V 20A Normally open with SKIRT !	
9 9317 1	T1 C2			24V 20A Normally open with SKIRT ! with RESISTOR !	
9 9318 1	T1 C3			24V 20A Normally open with SKIRT ! with DIODE !	

RELAIS MIT SCHÜRZE








RELAYS WITH SKIRT

IKA-No.	Configuration	Original	References	Technical data	Applications
9 9319 1	T3 C4			24V 10/20A Changeover with SKIRT !	



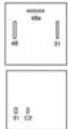
9 9389 1	T3 C6			24V 10/20A Changeover with SKIRT ! with DIODE !	



BLINKGEBER FLASHERS / PULSE GENERATORS

IKA-No.	Configuration	Original	References	Technical data	Applications
9 9182 1				6V 42W	
					
9 9189 1				6V 42W	
					
9 9026 1		Bosch	0 335 200 078 0 336 203 005 0 336 206 004	12V 2/4x21W	BMW 1 371 907 MB 001 544 48 32 Opel 1226331, 1226919, 1226923, 1226929, 1226935
		Hella	4DB001887-001,-002 -021,-022 4DB003425-037,-041,-047		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	0 335 200 003,-004 012,-013,-022 023,-027,-028 035,-036,-038 043,-045,-052 053,-054,-066 068,-073,-075	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
		Hella	4DB002478-171 4DB002895-011,-012 -017,-021 4DB003750-060,-071 -092,-102 -137,-151 -645,-648 -651,-661 -674 4DB003895-021		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
		Lucas	SFB161, SFB182		
		Valeo	739187		
9 9029 1				12V max. 300W L X	
					

BLINKGEBER FLASHERS / PULSE GENERATORS

IKA-No.	Configuration	Original	References	Technical data	Applications
9 9030 1				12V max. 300W L P X	
					
					
9 9081 1				12V 110W	
					
9 9176 1				12V 2/4x21W with lamp failure control	
					
					
9 9177 1		Bosch	0 335 200 005, -006 -016, -017 -029, -031 -037, -044 -044, -067	12V 2+1/6x21W with lamp failure control	BMW 1 367 158 Ford 1479291, 5002210, 5003694, 73849634 75NB-13350-AA V92VG-13350-AA
		Hella	0 335 207 006 4DM003360-001, -002 4DM003390-011 4DM004420-011, -027 -028, -101 -107, -197 4DM005698-011, -017 4DW003390-051		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
		Lucas	SFB 164		Renault 0037960200 VAG 000 055 206, 211 953 231G KDW HLO 925 0
				
9 9178 1				12V 2+1/6x21W lamp failure control	
					
					
9 9180 1		Hella	4DB003460-02	12V 2+1/6x21W lamp failure control	
					
					









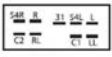


BLINKGEBER FLASHERS / PULSE GENERATORS

IKA-No.	Configuration	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.	Configuration	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 Comfort Flasher
					





BLINKGEBER FLASHERS / PULSE GENERATORS

IKA-No.	Configuration	Original	References	Technical data	Applications
NEW 9 9430 1	Bosch	0 335 200 038	12V	VAG 111 953 227 D	
					
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 3+1/8x21W lamp failure control	
 					

BLINKGEBER FLASHERS / PULSE GENERATORS

IKA-No.	Configuration	Original	References	Technical data	Applications
NEW 9 9184 1				24V 2+1/6x21W lamp failure control	
					
9 9187 1				24V 2/4x21W	
 					
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	
 					

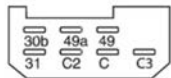
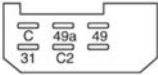
BLINKGEBER FLASHERS / PULSE GENERATORS

IKA-No.	Configuration	Original	References	Technical data	Applications
9 9194 1		Hella	4DZ004019-01	12/24V 1+8x18/21W	
					
9 9195 1		Hella	4DZ002834-16	12/24V 170W	
					
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	
					







BLINKGEBER FLASHERS / PULSE GENERATORS

IKA-No.	Configuration	Original	References	Technical data	Applications
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.	Configuration	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.	Configuration	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.	Configuration	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
					

WIDERSTAND INNENRAUMGEBLÄSE


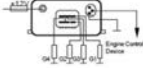




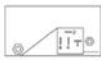



BLOWER MOTOR RESISTOR

IKA-No.	Configuration	Original	References	Technical data	Applications
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 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
					
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
					












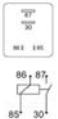
WIDERSTAND INNENRAUMGEBLÄSE BLOWER MOTOR RESISTOR

IKA-No.	Configuration	Original	References	Technical data	Applications
9 9374 1		Scania	1738098 1425070	24V blower motor resistor	
					
9 9375 1		Scania	388549	24V blower motor resistor	
					



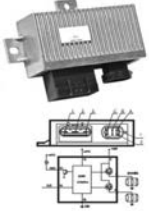



GLÜHZEITRELAIS PREHEATING RELAYS

IKA-No.	Configuration	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	0 333 402 509, -517, -524 2394 4RV008188-081, -091 -101, -161 -181, -291 -301, -321	12V	Fiat 7617640, 4792112 5990986, 5946920 Iveco 9462703, 462703 Nissan 75800005-1/2 PSA 5981.15, 9251586680
		Lucas Valeo	DSC02, DSC03 102180, 102696, 105857		
					
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.	Configuration	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
 					






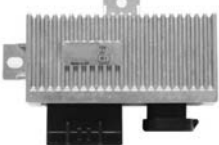
GLÜHZEITRELAIS PREHEATING RELAYS

IKA-No.	Configuration	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.	Configuration	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	Fiat 5801401694
 					
9 9413 1		Beru	GR081	12V	VAG 357 911 253
					
9 9415 1		Hella	4RA007507-031	12V	VAG 357 911 253 A
					
NEW 9 9436 1		Hella Stribel	4RV008188-051 899153	12V	MB 006 545 88 32 008 545 00 32
					

GLÜHZEITRELAIS PREHEATING RELAYS

IKA-No.	Configuration	Original	References	Technical data	Applications
NEW 9 9437 1				12V	Nissan 25230G2400 25230G2450 25230G2452
					
NEW 9 9438 1				12V	Nissan 25230BN300
					
NEW 9 9439 1				12V	Opel 55353011 6235240 Suzuki 55353011
					
NEW 9 9440 1				12V	Opel 5534141 6235303 1237976 9132691
					
NEW 9 9441 1				12V	Opel 55574293 1237783 1237233
					
NEW 9 9442 1				12V	Opel 4402721 9110721 Renault 7700107794 7700111525
					

GLÜHZEITRELAIS PREHEATING RELAYS

IKA-No.	Configuration	Original	References	Technical data	Applications
NEW 9 9443 1		Hella Valeo	4RV008188-271 245609, 245612	12V	PSA 598116, 598120 96117510 Renault 9611751080 9617240680
					
NEW 9 9444 1		Hella	4RV008188-291	12V	Fiat 46414088 46438456 7735921
					
NEW 9 9445 1		Valeo	245618	12V	Fiat 9619039780 9639912580 1348881080 9639907380 Ford 1143426 2S6112A343AB PSA 598125, 59131 59138, 59843 Suzuki 3885067G00
					
NEW 9 9446 1		Bosch	0281 003 018	12V	Fiat 51888255, 60816316, 46807091 46742375, 51771823 PSA 598142 Suzuki 3885055K00
					
NEW 9 9447 1		Bosch	0281 003 027	12V	VAG 038 907 281 C
					
NEW 9 9448 1		Bosch	0281 003 083	12V	VAG 038 907 281 D
					

GLÜHZEITRELAIS PREHEATING RELAYS

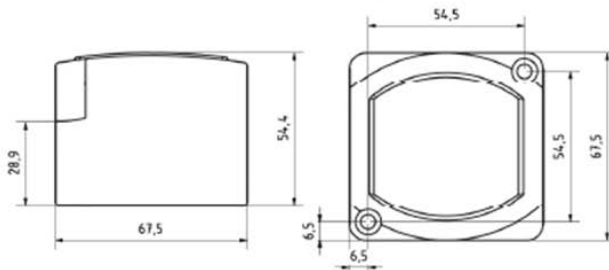
IKA-No.	Configuration	Original	References	Technical data	Applications
NEW 9 9449 1				12V	VAG 03G 907 282 A
					
NEW 9 9451 1				12V	VAG 03G 907 282
					
NEW 9 9452 1		Bosch	0 281 003 032 0 281 003 085	12V	Mitsubishi 1860A499 VAG 038 907 281 B
					
NEW 9 9453 1		Bosch	0 281 003 042	12V	VAG 045 907 282 A
					
NEW 9 9454 1				12V	VAG 04L 907 282
					
NEW 9 9455 1		Bosch	0 281 003 029 0 281 003 087	12V	Porsche 95561802800 VAG 4E0 907 282 A
					

GLÜHZEITRELAIS PREHEATING RELAYS

IKA-No.	Configuration	Original	References	Technical data	Applications
NEW 9 9456 1				12V	VAG 04L 907 281



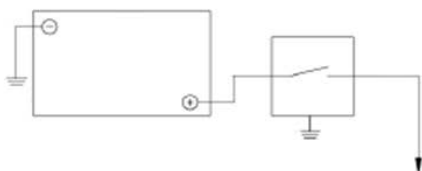
Intelligentes Batterietrennrelais / Voltage Sensitive Battery Relay



Für Einzelbatterie / For Single Battery

Erreicht die Batteriespannung 12.65 V, wird das vollautomatische Batterietrennrelais aktiv und verbindet zusätzliche Verbraucher mit der Batterie. Die Kontrollleuchte schaltet ab. Fällt die Spannung unter 11 V, erkennt das Relais dies und trennt die Verbraucher von der Batterie. Die Kontrollleuchte schaltet ein. Dieses System verhindert, dass sich die Anlasserbatterie entlädt und schützt die empfindliche Elektronik vor Spannungsspitzen, die beim Starten des Motors entstehen können.

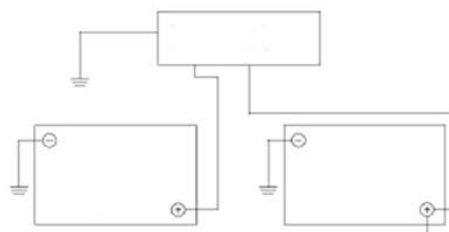
If the battery voltage reaches 12.65 V, the battery protection pulls in and connects the loads to the battery. The control LED is off now. If the voltage drops below 11 V, the relay detects this and disconnects the loads from the battery. The control LED is on now. This system prevents the starter battery 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 12.65 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 12.65 V, (the engines has stopped), the relay drops out, separating these batteries. This system prevents the starter battery from discharging and protects the sensitive electronic equipment powered by the house battery from harmful engine start up spikes.



BSR RELAIS

VSR RELAYS

IKA-No.	Configuration	Original	References	Technical data	Applications
9 9020 1 	VSR/BSR			12V 13.3V - 12.65V 140A Dual Battery	
9 9109 1 	VSR/BSR			12V 12.8V - 11.0V 80A Single Battery	
9 9321 1 	VSR/BSR			12V (Boat) 13.7V-12.8V 140A Dual Battery	
NEW 9 9460 1 	VSR/BSR			12V Dual Battery	new generation VSR/BSR for vehicels with regenartive brake system IN PREPERATION!
9 9024 1 	VSR/BSR			24V 26.6V-25.6V 140A Dual Battery	
9 9117 1 	VSR/BSR			24V 25.6V - 22.0V 40A Single Battery	

BSR RELAIS

VSR RELAYS


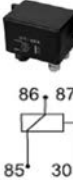


IKA-No.	Configuration	Original	References	Technical data	Applications
9 9118 1	VSR/BSR			24V 27.4V - 25.6V 140A Dual Battery	




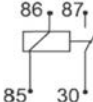

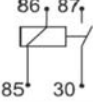

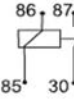

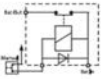




BATTERIEMANAGEMENT BATTERY MANAGEMENT

IKA-No.	Configuration	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 9108 1				12V 150/800A Normally open	
9 9110 1				12V 100/180A Normally open with DIODE !	



BATTERIEMANAGEMENT BATTERY MANAGEMENT

IKA-No.	Configuration Original	References	Technical data	Applications
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	
NEW 9 9277 1			warning buzzer at 11.5V	twin battery system
9 9372 1			12V 13.7V - 12.8V 140A with DIODE !	

BATTERIEMANAGEMENT BATTERY MANAGEMENT

IKA-No.	Configuration	Original	References	Technical data	Applications
9 9022 1				24V 60/80A Normally open	
					
					
9 9023 1				24V 100/150A Normally open	
					
					
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	
					
					



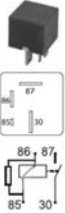



BATTERIEMANAGEMENT BATTERY MANAGEMENT

IKA-No.	Configuration	Original	References	Technical data	Applications
9 9230 1				100/500A	Battery switch one pole with key-switch
					
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.	Configuration	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.	Configuration	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
					
NEW 9 9431 1	DME			12V 15A	Porsche 911 618 154 00 911 618 154 01
					

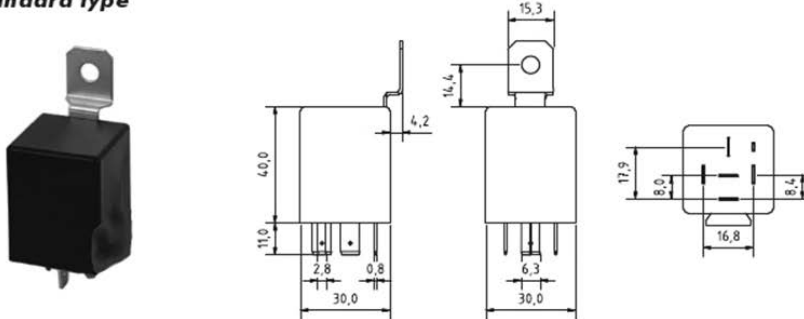
KRAFTSTOFFPUMPENRELAIS

FUEL PUMP RELAYS

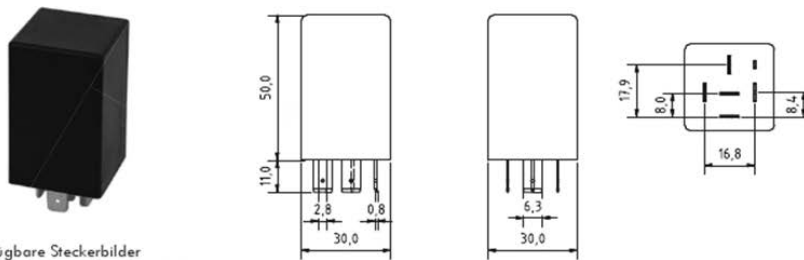
IKA-No.	Configuration	Original	References	Technical data	Applications
NEW 9 9434 1	DME			12V 15A	Porsche 993 615 227 00 993 615 227 01
					
NEW 9 9435 1				12V 15A	Porsche 996 615 101 00
					

Zeit- und Funktionsrelais / Timer Relays

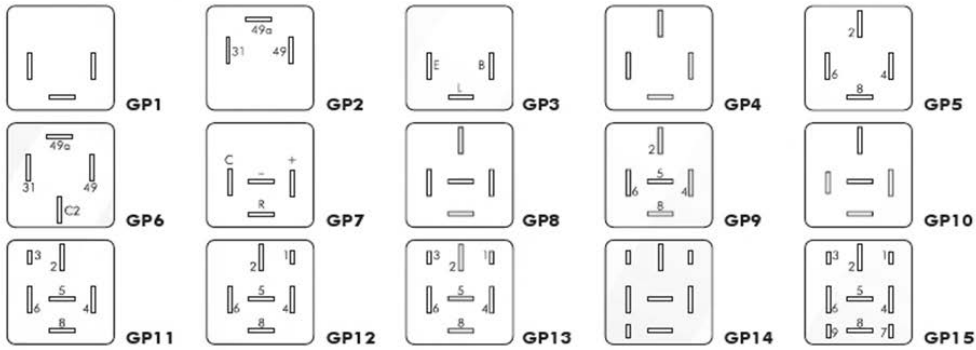
Standard-Variante Standard type



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



Verfügbare Steckerbilder
 Available terminal configurations

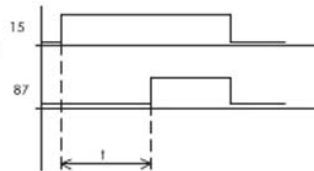


Zeit- und Funktionsrelais / Timer Relays

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.

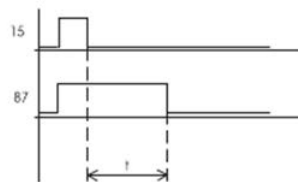
Apply supply voltage on terminal 30 and ground on terminal 31. After applying supply voltage on terminal 15, the relay will pull in after the programmed period t . When terminal 15 is opened, the relay drops back instantly.



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.

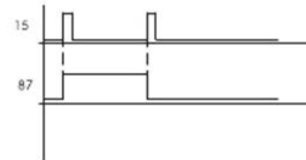
Apply supply voltage on terminal 30 and ground on terminal 31. After applying supply voltage on terminal 15, the relay pulls in instantly. When terminal 15 is opened, the relay drops back after the programmed period t .



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 .









ZEIT- / FUNKTIONSRÉLAIS TIMER / MULTITIMER RELAYS

IKA-No.	Configuration 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.	Configuration 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- / FUNKTIONSRELAIS TIMER / MULTITIMER RELAYS

IKA-No.	Configuration 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- / FUNKTIONSRELAIS TIMER / MULTITIMER RELAYS

IKA-No.	Configuration Original	References	Technical data	Applications
9 9383 1			12V 10s Delay ON adapter integrated	
9 9402 1			12V Latching Relay in-controlled	
NEW 9 9418 1			12V 60s Delay OFF - standard type	
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	


ZEIT- / FUNKTIONSRELAIS TIMER / MULTITIMER RELAYS

IKA-No.	Configuration Original	References	Technical data	Applications
9 9147 1			24V 15min Delay ON - standard type	
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	

ZEIT- / FUNKTIONSRELAIS TIMER / MULTITIMER RELAYS

IKA-No.	Configuration Original	References	Technical data	Applications
9 9165 1			24V Latching Relay positive controlled	
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	

ZEIT- / FUNKTIONSRELAIS TIMER / MULTITIMER RELAYS

IKA-No.	Configuration	Original	References	Technical data	Applications	
NEW 9 9424 1				24V 0.5s Delay ON - standard type		
						














RELAIS SONDERANWENDUNG SPECIFIC APPLICATION

IKA-No.	Configuration	Original	References	Technical data	Applications
9 9386 1				12V 20A AC-Relay	VAG 171 959 141 A
					
9 9025 1		Ford	NLR-132	12V 40A Headlight Relay	
					
NEW 9 9106 1				12V	fork lifter immobilizer 60s drop out
					
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.	Configuration	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 9127 1	Lucas	6RA NO	12V 30A Normally open 2x87		
9 9129 1				12V 20/30A Changeover Multifuntion	MB 001 542 02 19
9 9131 1	Lucas	6RA CO	12V 20/30A Changeover		
9 9132 1				12V 2x15A Double Contact Blower Motor Relay	MB 001 542 53 19

RELAIS SONDERANWENDUNG SPECIFIC APPLICATION

IKA-No.	Configuration	Original	References	Technical data	Applications
9 9134 1		Hella	4RA007507-061	12V 40A AC-Relay	VAG 443 919 578C
					
					
9 9135 1				12V 40A Twin Relay	
					
					
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	
					





RELAIS SONDERANWENDUNG SPECIFIC APPLICATION

IKA-No.	Configuration	Original	References	Technical data	Applications
9 9294 1				12V 21W Current Relay Changeover with CLAMP !	
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 9355 1				12V 40A headlight relay	Toyota 89520-1470
9 9356 1				12V 50A headlight relay	GM 94118913







RELAIS SONDERANWENDUNG SPECIFIC APPLICATION

IKA-No.	Configuration	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 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
NEW 9 9423 1				12V Interval Relay programmable	
NEW 9 9432 1	5 Pin			12V multi purpose red	Porsche 911 615 108 01

RELAIS SONDERANWENDUNG SPECIFIC APPLICATION

IKA-No.	Configuration	Original	References	Technical data	Applications
NEW 9 9433 1	5 Pin			12V multi purpose black	Porsche 911 615 109 01
					
9 9172 1				24V 2x10A double contact with BRACKET !	
					
9 9173 1				24V 10/22A Changeover with BRACKET ! with DIODE !	
					
9 9215 1				24V Gearbox	
					

SCHALTER SWITCHES

IKA-No.	Configuration	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.	Configuration	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.	Configuration	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
					
NEW 9 9427 1				standard switch "Ice" 1-pole	
					
9 9382 1		BMW	0861004	power window switch	E36
					

SCHALTER SWITCHES

IKA-No.	Configuration	Original	References	Technical data	Applications
9 9354 1				3 x switch SPST ON-OFF 20A, 12V 3 x control lamp 12V	universal









STECKSOCKEL SOCKETS







IKA-No.	Configuration	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 ATO 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
					
NEW 9 9130 1			Fuse Holder	common positive pole	4 x Mini-Fuse



STECKSOCKEL SOCKETS


IKA-No.	Configuration	Original	References	Technical data	Applications
9 9237 1			Socket System	PCB mounting 5x6.3mm	for Mini Relay
					
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
					

STECKSOCKEL SOCKETS

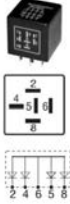

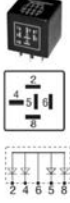



IKA-No.	Configuration	Original	References	Technical data	Applications
9 9250 1			Fuse Holder		with wire for Mini-Fuse
					
9 9251 1			Fuse Holder		with wire for Maxi-Fuse
					
9 9254 1			Fuse Holder		with wire for ATO-Fuse
					
9 9255 1			Fuse Box	common positive pole LED lights up if fuse is blown	6x ATO-Fuse
					
9 9330 1			Fuse Holder		1 x ATO-Fuse
					
NEW 9 9419 1			Fuse Holder	common positive pole	10 x Mini-Fuse
					

STECKSOCKEL SOCKETS





IKA-No.	Configuration	Original	References	Technical data	Applications
NEW 9 9428 1			Socket System	5x6.3mm with WIRE!	for Relays with skirt



DIVERSE GERÄTE VARIOUS DEVICES

IKA-No.	Configuration	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
NEW 9 9421 1				1N4007	Diode Block
9 9018 1				12V 100/400A	Reversing Solenoid




DIVERSE GERÄTE VARIOUS DEVICES

IKA-No.	Configuration	Original	References	Technical data	Applications
9 9107 1				12V 50A	Reversing Solenoid
					
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
					

DIVERSE GERÄTE VARIOUS DEVICES

IKA-No.	Configuration	Original	References	Technical data	Applications
9 9225 1				12V 1.2W orange	Indicator Light
					
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
					

DIVERSE GERÄTE VARIOUS DEVICES

IKA-No.	Configuration	Original	References	Technical data	Applications
9 9227 1				24V 1.2W blue	Indicator Light
					
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

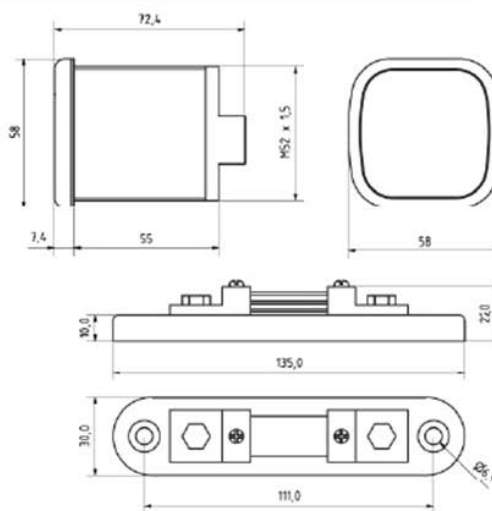
Klemme Terminal		Klemme Terminal	
15	Geschaltetes Plus hinter Batterie (Ausgang Zündschalter) Switched positive pole after battery (Output of ignition switch)	56	Scheinwerfer Headlamp
15a	Ausgang am Vorwiderstand zur Zündspule und zum Starter Output at dropping resistor to ignition coil and starter	56a	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		



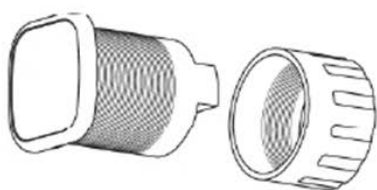
Überwachungsanzeige für Doppelbatteriesysteme Monitor for Twin Battery Systems



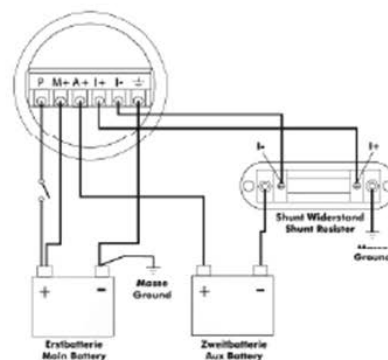
Beim Einschalten werden die Spannungen an Erst- und Zweitbatterie im LCD-Display angezeigt. Nach Betätigen des Batterieknopfes können Strom und Spannung der Zweitbatterie abgelesen werden. Das Display misst die Stromrichtung und erkennt dadurch, wann die Zweitbatterie entladen ist. Dies wird auf dem 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 Entladungszustand 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 presseing the buzzer button. The display keeps showing the discharging status of the auxiliary battery.

Schraubbefestigung Bolt on Mounting



Displayinformation Display Information



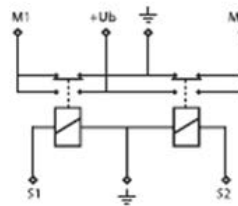
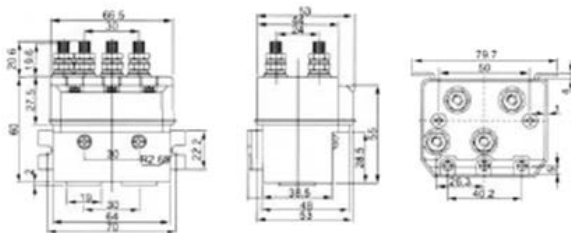
Umpolrelais / Reversing Solenoid



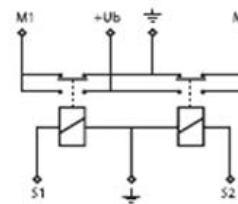
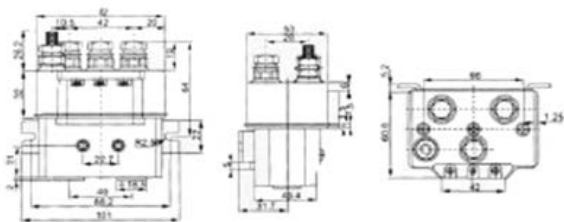
Die Anschlüsse M1 und M2 sind mit einem Motor (z.B. Seilwinde) verbunden. Im Ruhezustand haben M1 und M2 Massepotenzial. Wird Kontakt S1 an die Betriebsspannung angeschlossen, so schließt der Magnetschalter 1. Dadurch hat M1 ein Spannungspotenzial von +Ub, M2 liegt weiterhin auf Masse. Der Motor dreht 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



VERGLEICHSLISTE

CROSS REFERENCE LIST

BERU	IKA	Page	BMW	IKA	Page	BOSCH	IKA	Page
0201010054	9 9443 1	44	61 31 1 351 317	9 9297 1	10	0 332 014 406	9 9005 1	9
0201010074	9 9436 1	42	61 31 1 353 789	9 9297 1	10	0 332 014 408	9 9069 1	14
0522120502	9 9451 1	45	61 31 1 365 117	9 9177 1	27	0 332 014 409	9 9297 1	10
0522120504	9 9448 1	44	61 31 1 367 158	9 9177 1	27	0 332 014 801	9 9005 1	9
0522120505	9 9449 1	45	61 31 1 371 907	9 9177 1	27	0 332 015 001	9 9169 1	68
0522120702	9 9451 1	45	61 31 1 371 909	9 9177 1	27	0 332 017 100	9 9053 1	2
0522120721	9 9439 1	43	61 31 1 372 021	9 9177 1	27	0 332 017 103	9 9048 1	2
0522120722	9 9440 1	43	61 31 1 387 916	9 9233 1	72	0 332 017 300	9 9053 1	2
0522122601	9 9441 1	43	61 31 1 388 533	9 9196 1	28	0 332 019 110	9 9170 1	68
144 260 100	9 9299 1	40	61311358170	9 9169 1	68	0 332 019 150	9 9005 1	9
GR001	9 9299 1	40	64116920365	9 9035 1	34	0 332 019 151	9 9005 1	9
GR064	9 9204 1	40	64116923204	9 9035 1	34	0 332 019 203	9 9065 1	14
GR073-B	9 9205 1	40	64116929486	9 9035 1	34	0 332 019 213	9 9065 1	14
GR074	9 9436 1	42	64116931680	9 9035 1	34	0 332 019 451	9 9000 1	8
GR081	9 9413 1	42	64118364173	9 9035 1	34	0 332 019 453	9 9297 1	10
GSE100	9 9451 1	45	64118377579	9 9035 1	34	0 332 019 453	9 9170 1	68
GSE142	9 9439 1	43	64118383835	9 9035 1	34	0 332 200 014	9 9009 1	13
GSE143	9 9440 1	43	64118385549	9 9035 1	34	0 332 201 101	9 9004 1	9
GSE151	9 9454 1	45	6923204	9 9035 1	34	0 332 201 113	9 9004 1	9
			6929486	9 9035 1	34	0 332 201 125	9 9004 1	9
			6931680	9 9035 1	34	0 332 201 150	9 9004 1	9
BMW	IKA	Page	BOSCH	IKA	Page		IKA	Page
1 243 565	9 9027 1	26	7920100	9 9009 1	13	0 332 201 151	9 9004 1	9
1 244 314	9 9027 1	26	8383835	9 9035 1	34	0 332 201 402	9 9004 1	9
1 244 377	9 9027 1	26	8385549	9 9035 1	34	0 332 204 201	9 9009 1	13
1 244 377	9 9026 1	26				0 332 204 202	9 9009 1	13
1 244 392	9 9026 1	26	BOSCH	IKA	Page	0 332 204 203	9 9009 1	13
1 244 392	9 9027 1	26	0 218 003 042	9 9453 1	45	0 332 204 204	9 9009 1	13
1 361 496	9 9042 1	76	0 281 003 029	9 9455 1	45	0 332 204 204	9 9064 1	13
1 365 113	9 9027 1	26	0 281 003 032	9 9452 1	45	0 332 204 206	9 9063 1	13
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1351317	9 9297 1	10	0 332 014 113	9 9005 1	9	0 332 207 304	9 9057 1	3
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61 31 1 244 377	9 9177 1	27	0 332 014 203	9 9065 1	14	0 332 209 158	9 9308 1	12
61 31 1 244 392	9 9177 1	27	0 332 014 213	9 9065 1	14	0 332 209 168	9 9004 1	9

VERGLEICHSLISTE

CROSS REFERENCE LIST

BOSCH	IKA	Page	CARGO	IKA	Page	ERA	IKA	Page
0 332 209 204	9 9064 1	13	160926	9 9007 1	13	661148	9 9196 1	28
0 333 402 501	9 9199 1	39	160945	9 9293 1	10	661156	9 9397 1	70
0 333 402 509	9 9198 1	39	160946	9 9088 1	19	661196	9 9386 1	66
0 333 402 517	9 9198 1	39	160947	9 9076 1	15	661249	9 9191 1	31
0 333 402 524	9 9198 1	39	180344	9 9221 1	81	661262	9 9253 1	35
0 335 200 003	9 9027 1	26	180345	9 9224 1	81	661269	9 9046 1	39
0 335 200 004	9 9027 1	26	180348	9 9228 1	83	661270	9 9045 1	39
0 335 200 012	9 9027 1	26	190766	9 9042 1	76	661276	9 9201 1	39
0 335 200 013	9 9027 1	26	190767	9 9238 1	77	661278	9 9446 1	44
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0 335 200 027	9 9027 1	26				661289	9 9452 1	45
0 335 200 028	9 9027 1	26	CATERPILLAR	IKA	Page	662148	9 9234 1	72
0 335 200 035	9 9027 1	26	7T 6365	9 9042 1	76	662160	9 9232 1	72
0 335 200 036	9 9027 1	26				662161	9 9231 1	72
0 335 200 038	9 9027 1	26	DACIA	IKA	Page	662220	9 9369 1	74
0 335 200 038	9 9430 1	30	6001546572	9 9049 1	39	662268	9 9370 1	74
0 335 200 043	9 9027 1	26				662268	9 9371 1	74
0 335 200 045	9 9027 1	26	DAEWOO	IKA	Page	662286	9 9361 1	73
0 335 200 052	9 9027 1	26	3 334 485 008	9 9042 1	76	662314	9 9233 1	72
0 335 200 053	9 9027 1	26				663031	9 9439 1	43
0 335 200 054	9 9027 1	26	ERA	IKA	Page			
0 335 200 066	9 9027 1	26	61145	9 9026 1	26	FIAT	IKA	Page
0 335 200 068	9 9027 1	26	661012	9 9065 1	14	11129885	9 9053 1	2
0 335 200 073	9 9027 1	26	661046	9 9207 1	54	1164018	9 9063 1	13
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0 335 215 163	9 9401 1	33	661066	9 9210 1	34	4320625	9 9005 1	9
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3 334 485 008	9 9042 1	76	661097	9 9000 1	8	46432278	9 9444 1	44
9 140 010 343	9 9034 1	34	661098	9 9004 1	9	46438456	9 9444 1	44
			661099	9 9308 1	12	46520412	9 9053 1	2
CARGO	IKA	Page	661115	9 9011 1	18	46742375	9 9446 1	44
160080	9 9001 1	8	661123	9 9048 1	2	46798692	9 9446 1	44
160081	9 9004 1	9	661128	9 9056 1	3	46807091	9 9446 1	44
160155	9 9000 1	8	661131	9 9415 1	42	46812667	9 9446 1	44
160282	9 9001 1	8	661132	9 9413 1	42	46812668	9 9446 1	44
160295	9 9209 1	55	661134	9 9128 1	54	4792112	9 9198 1	39
160308	9 9004 1	9	661137	9 9299 1	40	4840090	9 9005 1	9
160475	9 9177 1	27	661139	9 9202 1	40	4849503	9 9005 1	9

VERGLEICHSLISTE

CROSS REFERENCE LIST

FIAT	IKA	Page	FORD	IKA	Page	FORD	IKA	Page
5113898	9 9042 1	76	0612 3250	9 9177 1	27	9M5Q-12A343-AA	9 9409 1	42
51771823	9 9446 1	44	0612 6024	9 9177 1	27	A77SX 13350 AA	9 9177 1	27
51888255	9 9446 1	44	0614 0531	9 9177 1	27	NLR-132	9 9025 1	66
55187288	9 9446 1	44	0660 0254	9 9177 1	27	YC3Z12B533AA	9 9407 1	41
55193073	9 9446 1	44	0682 2566	9 9177 1	27			
5801401694	9 9411 1	42	0722 8813	9 9177 1	27	GM	IKA	Page
5882107	9 9171 1	68	1003745	9 9361 1	73	9108385	9 9405 1	41
5946920	9 9198 1	39	1007910	9 9369 1	74	91167210	9 9049 1	39
5990986	9 9198 1	39	1027749	9 9361 1	73	9201699	9 9049 1	39
60507061	9 9004 1	9	11 000 107 50	9 9009 1	13	93858431	9 9406 1	41
60538839	9 9177 1	27	1143426	9 9445 1	44	93862497	9 9410 1	42
608 05 630	9 9027 1	26	1574 754	9 9004 1	9	94118913	9 9356 1	69
60801874	9 9446 1	44	1631 494	9 9177 1	27			
60802047	9 9446 1	44	1693301	9 9409 1	42	HELLA	IKA	Page
60812527	9 9444 1	44	2S6112A343AB	9 9445 1	44	4DB001887-001	9 9026 1	26
60816316	9 9446 1	44	4078559	9 9027 1	26	4DB001887-002	9 9026 1	26
7573490	9 9177 1	27	4162892	9 9027 1	26	4DB001887-021	9 9026 1	26
7595406	9 9396 1	29	5100 820	9 9042 1	76	4DB001887-022	9 9026 1	26
7617640	9 9198 1	39	6041768	9 9026 1	26	4DB002478-171	9 9027 1	26
7735921	9 9444 1	44	6048781	9 9027 1	26	4DB002895-011	9 9027 1	26
7789496	9 9177 1	27	6050578	9 9297 1	10	4DB002895-012	9 9027 1	26
8122160	9 9177 1	27	6059235	9 9297 1	10	4DB002895-017	9 9027 1	26
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9619039780	9 9445 1	44	6165 402	9 9171 1	68	4DB003425-037	9 9026 1	26
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9639907380	9 9445 1	44	6193228	9 9001 1	8	4DB003425-047	9 9026 1	26
9639912580	9 9445 1	44	75DB-13350A-3A	9 9026 1	26	4DB003460-02	9 9180 1	27
9940353	9 9171 1	68	75DB-13350-AA	9 9026 1	26	4DB003750-060	9 9027 1	26
			78LB 13350 AA	9 9177 1	27	4DB003750-071	9 9027 1	26
FORD	IKA	Page	81BG-13350-AB	9 9027 1	26	4DB003750-092	9 9027 1	26
0103 5579	9 9177 1	27	81DB 14A481 AA	9 9042 1	76	4DB003750-102	9 9027 1	26
0103 7955	9 9177 1	27	81DB 15K235 AA	9 9171 1	68	4DB003750-137	9 9027 1	26
0105 0711	9 9177 1	27	81DB 15K235 RA	9 9004 1	9	4DB003750-151	9 9027 1	26
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0414 7429	9 9177 1	27	83BG-13350-AA	9 9027 1	26	4DB003750-651	9 9027 1	26
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0606 1005	9 9177 1	27	95BG14529AB	9 9361 1	73	4DM003390-011	9 9177 1	27
0608 3293	9 9042 1	76	95BG-14529-AB	9 9361 1	73	4DM004420-011	9 9177 1	27
0608 9983	9 9177 1	27	96FG-14529-BC	9 9369 1	74	4DM004420-027	9 9177 1	27

VERGLEICHSLISTE

CROSS REFERENCE LIST

HELLA	IKA	Page	HELLA	IKA	Page	HÜCO	IKA	Page
4DM004420-028	9 9177 1	27	4RD933332-061	9 9009 1	13	132074	9 9442 1	43
4DM004420-101	9 9177 1	27	4RD933332-067	9 9009 1	13	132079	9 9405 1	41
4DM004420-107	9 9177 1	27	4RP008189-051	9 9209 1	55	132080	9 9443 1	44
4DM004420-197	9 9177 1	27	4RP008189-151	9 9385 1	55	132081	9 9201 1	39
4DM005698-011	9 9177 1	27	4RP008189-151	9 9133 1	54	132082	9 9444 1	44
4DM005698-017	9 9177 1	27	4RV008188-051	9 9436 1	42	132088	9 9445 1	44
4DN006208-011	9 9346 1	29	4RV008188-081	9 9198 1	39	132089	9 9446 1	44
4DN006208-017	9 9346 1	29	4RV008188-091	9 9198 1	39	132105	9 9447 1	44
4DN006208-021	9 9346 1	29	4RV008188-101	9 9198 1	39	132106	9 9448 1	44
4DN006208-027	9 9346 1	29	4RV008188-161	9 9198 1	39	132107	9 9449 1	45
4DN006208-031	9 9346 1	29	4RV008188-181	9 9198 1	39	132118	9 9404 1	41
4DN006208-037	9 9346 1	29	4RV008188-271	9 9443 1	44	132119	9 9409 1	42
4DW003390-051	9 9177 1	27	4RV008188-281	9 9201 1	39	132120	9 9408 1	41
4DZ002834-16	9 9195 1	32	4RV008188-291	9 9198 1	39	132121	9 9049 1	39
4DZ004019-01	9 9194 1	32	4RV008188-291	9 9444 1	44	132122	9 9406 1	41
4LZ003750-401	9 9416 1	29	4RV008188-301	9 9198 1	39	132123	9 9410 1	42
4RA003 510-111	9 9002 1	8	4RV008188-321	9 9198 1	39	132128	9 9451 1	45
4RA003 510-361	9 9000 1	8	5HL351321-011	9 9034 1	34	132129	9 9452 1	45
4RA003 530-001	9 9000 1	8	5HL351321-101	9 9373 1	36	132138	9 9453 1	45
4RA003 530-003	9 9000 1	8	5HL351321-301	9 9378 1	37	132149	9 9454 1	45
4RA003 530-007	9 9000 1	8	5KG005063-00	9 9162 1	30	132158	9 9045 1	39
4RA003437-047	9 9011 1	18	66106	9 9063 1	13	132159	9 9046 1	39
4RA003510-081, -661	9 9297 1	10	66106B	9 9063 1	13	132168	9 9455 1	45
4RA003510-082	9 9001 1	8	66107	9 9064 1	13	132176	9 9456 1	46
4RA003510-091	9 9069 1	14	66107B	9 9064 1	13	132201	9 9004 1	9
4RA003510-131	9 9005 1	9	66130	9 9138 1	20	132202	9 9138 1	20
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4RA003510-147	9 9065 1	14	87115	9 9063 1	13	132209	9 9430 1	30
4RA003510-151	9 9008 1	13	87115B	9 9063 1	13	132209	9 9027 1	26
4RA003510-157	9 9008 1	13	87116	9 9065 1	14	132218	9 9033 1	34
4RA003510-267	9 9005 1	9				132219	9 9211 1	34
4RA007507-031	9 9415 1	42	HÜCO	IKA	Page	132531	9 9035 1	34
4RA007507-061	9 9134 1	68	132014	9 9209 1	55			
4RA933 332-101	9 9002 1	8	132023	9 9208 1	54	ISUZU	IKA	Page
4RD001838-011	9 9004 1	9	132034	9 9205 1	40	8-87173-951-0	9 9359 1	70
4RD001838-021	9 9009 1	13	132035	9 9436 1	42	8-94128-856-0	9 9357 1	40
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4RD003520-091	9 9009 1	13	132048	9 9439 1	43			
4RD003520-093	9 9009 1	13	132049	9 9440 1	43	IVECO	IKA	Page
4RD003520-131	9 9004 1	9	132051	9 9198 1	39	0 116 4018	9 9009 1	13
4RD003520-151	9 9064 1	13	132061	9 9299 1	40	0 116 4648	9 9009 1	13
4RD003520-157	9 9064 1	13	132062	9 9202 1	40	0 124 5710	9 9009 1	13
4RD003520-227	9 9063 1	13	132066	9 9441 1	43	1164018	9 9063 1	13

VERGLEICHSLISTE

CROSS REFERENCE LIST

IVECO	IKA	Page	LUCAS	IKA	Page	MERCEDES	IKA	Page
1164650	9 9042 1	76	SFB182	9 9027 1	26	000 542 9719	9 9011 1	18
1172393	9 9064 1	13	SRB501	9 9004 1	9	000 545 36 16	9 9046 1	39
2562676	9 9177 1	27	SRB521	9 9005 1	9	000 545 5405	9 9009 1	13
4069103	9 9026 1	26	SRB523	9 9297 1	10	000 545 58 05	9 9064 1	13
42098535	9 9042 1	76	SRB525	9 9004 1	9	000 545 72 05	9 9065 1	14
462703	9 9198 1	39	SRB527	9 9298 1	11	000 545 83 05	9 9004 1	9
5006143961	9 9064 1	13	SRB528	9 9005 1	9	000 545 84 05	9 9004 1	9
5122663	9 9346 1	29	SRB530	9 9008 1	13	000 545 8405	9 9009 1	13
5125586	9 9346 1	29	SRB531/538	9 9065 1	14	000 545 9005	9 9009 1	13
51395260	9 9011 1	18	SRB533	9 9069 1	14	000 820 17 10	9 9009 1	13
51514910	9 9346 1	29				000 820 17 10	9 9063 1	13
51542780	9 9346 1	29	MAZDA	IKA	Page	000 820 90 10	9 9368 1	74
5158609	9 9308 1	12	1E00-66-370	9 9369 1	74	000 821 01 63	9 9004 1	9
60193651	9 9297 1	10				000 821 10 63	9 9177 1	27
60193651	9 9170 1	68	MEATDORIA	IKA	Page	0005453516	9 9045 1	39
8122160	9 9177 1	27	422014	9 9209 1	55	001 531 02 60	9 9009 1	13
8168785	9 9042 1	76	7285570	9 9202 1	40	001 531 02 60	9 9004 1	9
920690	9 9347 1	32	7285730	9 9405 1	41	001 542 02 19	9 9129 1	67
9267701	9 9063 1	13	7285760	9 9201 1	39	001 542 11 19	9 9065 1	14
9462703	9 9198 1	39	7285760	9 9445 1	44	001 542 53 19	9 9132 1	67
98429863	9 9004 1	9	7285770	9 9442 1	43	001 542 56 19	9 9065 1	14
99434621	9 9308 1	12	7285790	9 9408 1	41	001 542 59 19	9 9126 1	67
			7285800	9 9409 1	42	001 542 96 19	9 9126 1	67
			7285810	9 9049 1	39	001 544 48 32	9 9026 1	26
JOHN DEERE	IKA	Page	7285830	9 9404 1	41	001 544 53 32	9 9399 1	29
014372	9 9009 1	13	7285835	9 9406 1	41	001 545 34 05	9 9387 1	55
15730019	9 9009 1	13	7285840	9 9437 1	43	002 542 07 19	9 9297 1	10
59024	9 9009 1	13	7285845	9 9410 1	42	002 544 10 32	9 9399 1	29
AL 20 859 5	9 9170 1	68	7285850	9 9438 1	43	002 544 13 32	9 9177 1	27
AL 20 859 7	9 9171 1	68	7285865	9 9205 1	40	002 544 13 32	9 9027 1	26
AL29657	9 9004 1	9	7285885	9 9448 1	44	002 544 37 32	9 9027 1	26
AL76702	9 9056 1	3	7285890	9 9452 1	45	002 544 42 32	9 9177 1	27
AZ 26 995	9 9042 1	76	7285895	9 9455 1	45	002 544 48 32	9 9027 1	26
AZ 26 996	9 9001 1	8	7285900	9 9447 1	44	002 544 48 32	9 9026 1	26
AZ 34 937	9 9177 1	27	7285910	9 9440 1	43	002 544 49 32	9 9177 1	27
AZ 49 989	9 9397 1	70	7285915	9 9439 1	43	002 544 85 32	9 9177 1	27
AZ 55 251	9 9297 1	10	73240104	9 9206 1	54	002 544 85 32	9 9027 1	26
			73240140	9 9210 1	34	002 544 86 32	9 9027 1	26
KIA	IKA	Page	73240141	9 9253 1	35	002 544 86 32	9 9026 1	26
0K934 18821	9 9297 1	10	73240142	9 9211 1	34	002 544 87 32	9 9177 1	27
			73240143	9 9264 1	35	002 544 91 32	9 9026 1	26
LUCAS	IKA	Page	73240145	9 9033 1	34	002 544 92 32	9 9177 1	27
6RACO	9 9131 1	67	73250007	9 9138 1	20	002 544 98 32	9 9027 1	26
6RANO	9 9127 1	67				002 544 98 32	9 9026 1	26
SFB 164	9 9177 1	27				003 544 27 32	9 9027 1	26
SFB161	9 9027 1	26						

VERGLEICHSLISTE CROSS REFERENCE LIST

MERCEDES	IKA	Page	MERCEDES	IKA	Page	NAGARES	IKA	Page
003 544 27 32	9 9177 1	27	A 002 544 42 32	9 9177 1	27	BDL/7-12	9 9406 1	41
003 545 17 05	9 9207 1	54	A 002 544 49 32	9 9177 1	27	BED/7-12	9 9049 1	39
003 545 24 05	9 9207 1	54	A 002 544 85 32	9 9177 1	27	BFN/14-12	9 9407 1	41
003 545 98 05	9 9064 1	13	A 002 544 87 32	9 9177 1	27	BRE/5-12	9 9405 1	41
004 545 11 05	9 9064 1	13	A 002 544 92 32	9 9177 1	27	BRE/6-12	9 9442 1	43
004 545 64 05	9 9064 1	13	A 003 544 27 32	9 9177 1	27	CEP/6-12	9 9445 1	44
006 545 14 28	9 9042 1	76	A 003 545 98 05	9 9064 1	13	FGF/8-12	9 9411 1	42
0065458832	9 9436 1	42	A 004 545 11 05	9 9064 1	13	FGPR/8-12	9 9410 1	42
0065458932	9 9205 1	40	A 004 545 64 05	9 9064 1	13	ITA/4-12	9 9396 1	29
0075459832	9 9205 1	40	A 006 545 14 28	9 9042 1	76	ITA/5-12	9 9180 1	27
0085450032	9 9436 1	42	A 124 820 45 10	9 9232 1	72	ITGE/3-12	9 9430 1	30
019 545 02 32	9 9027 1	26	A 124 820 46 10	9 9231 1	72	ITRC-6	9 9347 1	32
019 545 69 32	9 9046 1	39	A 202 820 73 10	9 9034 1	34	ITRD/6-12	9 9346 1	29
0255452832	9 9045 1	39	A 2028202510	9 9373 1	36	MECD/8-12	9 9403 1	70
116 545 00 34	9 9360 1	70	A 210 820 61 10	9 9036 1	34	MRIS/12-20	9 9056 1	3
124 820 45 10	9 9232 1	72	A 210 820 62 10	9 9034 1	34	MRS/12-20	9 9048 1	2
124 820 46 10	9 9231 1	72	A 210 821 15 51	9 9036 1	34	PBCI/8-12	9 9408 1	41
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202 820 73 10	9 9034 1	34	A 210 821 46 51	9 9036 1	34	PPC/5-12	9 9444 1	44
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210 821 15 51	9 9036 1	34	A 638 545 00 28	9 9042 1	76	RDP/5-12	9 9169 1	68
210 821 29 51	9 9036 1	34	A 648 900 00 00	9 9046 1	39	RLAC/4-12	9 9175 1	21
210 821 46 51	9 9036 1	34	A 721 185 13 51	9 9042 1	76	RLAC/4-12	9 9138 1	20
210 824 00 18	9 9307 1	12	A0005453516	9 9045 1	39	RLACS/4-12	9 9174 1	20
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638 545 00 28	9 9042 1	76	A0065458832	9 9436 1	42	RLGU/45-12	9 9438 1	43
6461536579	9 9045 1	39	A0065458932	9 9205 1	40	RLP/4-12R	9 9170 1	68
648 900 00 00	9 9046 1	39	A0075459832	9 9205 1	40	RLP/52-24	9 9063 1	13
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A 000 545 58 05	9 9064 1	13	A4479001001	9 9404 1	41	RLPS/5-24	9 9065 1	14
A 000 545 83 05	9 9004 1	9	A6461536579	9 9045 1	39	TPD/5-12	9 9198 1	39
A 000 545 84 05	9 9004 1	9				TPDM/34-12	9 9205 1	40
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A 000 821 01 63	9 9004 1	9	1860A499	9 9452 1	45	TPDV/28-12	9 9451 1	45
A 000 821 10 63	9 9177 1	27				TPDV/6-12	9 9448 1	44
A 001 531 02 60	9 9004 1	9	MONARK	IKA	Page	TPDV/68-12	9 9455 1	45
A 001 544 53 32	9 9399 1	29	090220024	9 9001 1	8	TPDV/7-12	9 9449 1	45
A 002 542 07 19	9 9297 1	10	090270012	9 9005 1	9	TPMS/4-12	9 9045 1	39
A 002 544 10 32	9 9399 1	29	090280110	9 9307 1	12	TPMS/6-12	9 9046 1	39
A 002 544 13 32	9 9177 1	27	090288012	9 9004 1	9			

VERGLEICHSLISTE CROSS REFERENCE LIST

NAGARES	IKA	Page	OPEL	IKA	Page	OPEL	IKA	Page
TPSS/7-12	9 9202 1	40	1237233	9 9441 1	43	9110721	9 9442 1	43
TPVD/2-12	9 9452 1	45	1237783	9 9441 1	43	9148292	9 9177 1	27
ZB1	9 9042 1	76	1237976	9 9440 1	43	93168361	9 9404 1	41
			1238532	9 9204 1	40	93863895	9 9404 1	41
NISSAN	IKA	Page	1238537	9 9204 1	40	9442495	9 9177 1	27
01506584-0	9 9171 1	68	1238539	9 9209 1	55			
03440489	9 9001 1	8	1238540	9 9209 1	55	PORSCHE	IKA	Page
11067 JD50A	9 9406 1	41	1238549	9 9209 1	55	111 923 227 D	9 9027 1	26
11067BN700	9 9049 1	39	1238565	9 9204 1	40	111 953 227 D	9 9027 1	26
11067JD50B	9 9404 1	41	1238611	9 9297 1	10	171 937 503	9 9001 1	8
11067JD50C	9 9410 1	42	1238611	9 9000 1	8	311 963 141 B	9 9001 1	8
1506417	9 9341 1	69	1238627	9 9204 1	40	901 618 303 02	9 9026 1	26
25230-69T00	9 9203 1	40	1238966	9 9209 1	55	911 615 108 01	9 9432 1	70
2523080A0A	9 9410 1	42	1736504	9 9177 1	27	911 615 109 01	9 9433 1	71
25230BN300	9 9438 1	43	1736508	9 9177 1	27	911 618 154 00	9 9431 1	55
25230BN30A	9 9438 1	43	3 436 400	9 9009 1	13	911 618 154 01	9 9431 1	55
25230G2400	9 9437 1	43	43206400	9 9297 1	10	91161510301	9 9000 1	8
25230G2450	9 9437 1	43	4400385	9 9405 1	41	914 612 415 00	9 9042 1	76
25230G2452	9 9437 1	43	4402721	9 9442 1	43	914 618 303 10	9 9026 1	26
25230-G4900	9 9170 1	68	4406678	9 9404 1	41	914 618 303 11	9 9026 1	26
75800005-1/2	9 9198 1	39	4409990	9 9049 1	39	928 615 117 00	9 9001 1	8
82005-58438	9 9404 1	41	4416764	9 9406 1	41	928 615 131 00	9 9177 1	27
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OPEL	IKA	Page	4420674	9 9404 1	41	95561802800	9 9455 1	45
03447012	9 9000 1	8	4506156	9 9049 1	39	993 615 227 00	9 9434 1	56
090055543	9 9027 1	26	55353011	9 9439 1	43	993 615 227 01	9 9434 1	56
090228928	9 9204 1	40	55354141	9 9440 1	43	996 615 101 00	9 9435 1	56
090240651	9 9204 1	40	55574293	9 9441 1	43	999 657 011 90	9 9171 1	68
090276101	9 9204 1	40	6235240	9 9439 1	43			
09148292	9 9027 1	26	6235303	9 9440 1	43	PSA	IKA	Page
10456571	9 9204 1	40	6237637	9 9440 1	43	1920.3N	9 9206 1	54
12 26 919	9 9027 1	26	6238553	9 9177 1	27	1920.3X	9 9206 1	54
12 26 929	9 9027 1	26	90 069 864	9 9397 1	70	1929.49	9 9206 1	54
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12077866	9 9177 1	27	90055543	9 9177 1	27	5882107	9 9171 1	68
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1226902	9 9177 1	27	90240651	9 9204 1	40	598110	9 9199 1	39
1226919	9 9026 1	26	90272354	9 9171 1	68	598113	9 9199 1	39
1226923	9 9026 1	26	90276101	9 9204 1	40	598116	9 9443 1	44
1226926	9 9177 1	27	90341822	9 9204 1	40	598119	9 9201 1	39
1226929	9 9026 1	26	90414477	9 9056 1	3	598120	9 9443 1	44
1226932	9 9177 1	27	90506697	9 9177 1	27	598125	9 9445 1	44
1226935	9 9026 1	26	90508974	9 9440 1	43	598131	9 9445 1	44
1226941	9 9177 1	27	90511443	9 9056 1	3	598138	9 9445 1	44
1226943	9 9177 1	27	90513566	9 9177 1	27	598140	9 9406 1	41

VERGLEICHSLISTE

CROSS REFERENCE LIST

PSA	IKA	Page	RENAULT	IKA	Page	VALEO	IKA	Page
598142	9 9446 1	44	7700781546	9 9341 1	69	739187	9 9027 1	26
598143	9 9445 1	44	7700810395	9 9341 1	69			
6323.07	9 9396 1	29	7700810395	9 9170 1	68	VDO	IKA	Page
6323.15	9 9396 1	29	7700810926	9 9171 1	68	V15-71-0035	9 9033 1	34
655117	9 9171 1	68	7700810932	9 9341 1	69	V223134-C0052-C642	9 9005 1	9
6555 68	9 9307 1	12	7701348105	9 9396 1	29	V23073-B1005-A302	9 9048 1	2
6555 88	9 9307 1	12	8200558438	9 9404 1	41	V23074A1001A403	9 9056 1	3
655504	9 9171 1	68	8200859243	9 9410 1	42	V23134-A0052-C643	9 9004 1	9
7520053006	9 9396 1	29	9611751080	9 9443 1	44	V23134-A1052-C643	9 9004 1	9
7551093710	9 9396 1	29	9617240680	9 9443 1	44	V23134-A1053-C642	9 9009 1	13
790552000	9 9171 1	68	9640469680	9 9406 1	41	V23134-B0053-C642	9 9008 1	13
7920076593	9 9199 1	39	NU61	9 9404 1	41	V23134-B1052-C642	9 9004 1	9
9250883280	9 9199 1	39				V23134-B1053-C642	9 9008 1	13
925359780	9 9396 1	29	SAAB	IKA	Page	V30-79-0002	9 9034 1	34
9549299580	9 9199 1	39	40 69 985	9 9027 1	26			
95534787	9 9199 1	39	85 22 310	9 9001 1	8	VOLVO	IKA	Page
96 638 248 80	9 9408 1	41	85 33 176	9 9307 1	12	1 210 124	9 9026 1	26
96075406	9 9206 1	54	85 53 463	9 9397 1	70	1 214 008	9 9026 1	26
96117510	9 9443 1	44				1 324 492	9 9308 1	12
96141677	9 9201 1	39	SUZUKI	IKA	Page	1079476	9 9191 1	31
96196965	9 9206 1	54	3885055K00	9 9446 1	44	11987137	9 9004 1	9
9620734380	9 9206 1	54	3885067G00	9 9445 1	44	1214764	9 9004 1	9
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						1235893	9 9005 1	9
RENAULT	IKA	Page	SWF	IKA	Page	1259926	9 9004 1	9
11067JD50B	9 9404 1	41	611000	9 9001 1	8	1323317	9 9177 1	27
50 00 409 318	9 9004 1	9	611100	9 9027 1	26	13946556	9 9042 1	76
50 00 786 249	9 9042 1	76	611102	9 9026 1	26	1504 951	9 9009 1	13
50 06 143 961	9 9064 1	13				15048941	9 9347 1	32
50 10 306 869	9 9064 1	13	TOYOTA	IKA	Page	1504951	9 9004 1	9
50 10 306 907	9 9064 1	13	89520-1470	9 9355 1	69	1504952	9 9004 1	9
55 00 504 445	9 9064 1	13				20002813702	9 9297 1	10
77 00 807 154	9 9308 1	12	VALEO	IKA	Page	21244697	9 9064 1	13
7700100703	9 9442 1	43	102180	9 9198 1	39	241 595	9 9009 1	13
7700109860	9 9405 1	41	102696	9 9198 1	39	268775	9 9298 1	11
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7700722290	9 9198 1	39	643827	9 9138 1	20	3542997	9 9297 1	10

VERGLEICHSLISTE

CROSS REFERENCE LIST

VOLVO	IKA	Page	VW	IKA	Page	VW	IKA	Page
3542997	9 9000 1	8	191 906 383 C	9 9385 1	55	433 951 253 J	9 9011 1	18
3943863	9 9191 1	31	191 906 383C	9 9133 1	54	433 951 253 K	9 9011 1	18
43733670	9 9000 1	8	191 927 841	9 9307 1	12	433 951 253 L	9 9011 1	18
4780950	9 9042 1	76	191 937 503	9 9138 1	20	443 919 578C	9 9134 1	68
4786690	9 9064 1	13	191 953 227 A	9 9026 1	26	443 951 254 A	9 9004 1	9
4803262	9 9346 1	29	191 953 227 A	9 9027 1	26	443907385B	9 9208 1	54
649739	9 9399 1	29	191 953 277	9 9026 1	26	443911261	9 9299 1	40
672599	9 9297 1	10	191 955 531	9 9397 1	70	443911261A	9 9299 1	40
8155312	9 9191 1	31	191 959 263	9 9379 1	37	4D0 951 253	9 9136 1	54
8158697	9 9191 1	31	1GD 919 506 C	9 9253 1	35	4E0 907 282 A	9 9455 1	45
831725	9 9004 1	9	1H0 919 506	9 9275 1	36	5B0 953 227	9 9416 1	29
841177	9 9001 1	8	1H0 959 855	9 9236 1	72	6Q0 959 263	9 9378 1	37
870 451	9 9009 1	13	1H0953227	9 9027 1	26	6Q0 959 263 A	9 9378 1	37
872300	9 9004 1	9	1J0 819 022 A	9 9376 1	37	6Q1907521	9 9403 1	70
946556	9 9042 1	76	1J0 906 383 C	9 9414 1	55	6Q1907521A	9 9403 1	70
9518230	9 9064 1	13	1J0 919 506 E	9 9339 1	36	6Q1907521B	9 9403 1	70
			1J0 919 506 G	9 9264 1	35	701 919 506	9 9348 1	36
			1J0 919 506 H	9 9212 1	35	701 919 506 A	9 9266 1	35
			1J0 919 506 H	9 9339 1	36	701 959 263	9 9377 1	37
			1J0 919 506 K	9 9210 1	34	7M0 951 253 A	9 9138 1	20
			1J0 919 506 L	9 9340 1	36	803 953 183 B	9 9027 1	26
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			1J0 919 506 N	9 9213 1	35	857 951 253	9 9385 1	55
			1J4 959 857 B	9 9371 1	74	893911261	9 9299 1	40
			1J4 959 857 D	9 9370 1	74	8D0 951 253	9 9138 1	20
			1K0 959 263 A	9 9380 1	37	8D0 951 253 A	9 9305 1	12
			211 953 231 G	9 9177 1	27	IH0 953 227	9 9026 1	26
			251 963 425	9 9042 1	76	KDWHLO9402	9 9297 1	10
			311 963 141 B	9 9001 1	8			
			321 911 261	9 9202 1	40	WEHRLE	IKA	Page
			321 911 261C	9 9202 1	40	20 200 001	9 9305 1	12
			321 937 501	9 9042 1	76	20 200 101	9 9305 1	12
			321 955 531 A	9 9397 1	70	20 201 001	9 9307 1	12
			321906059G	9 9208 1	54	20 201 003	9 9308 1	12
			357 911 253	9 9413 1	42	20 201 101	9 9307 1	12
			357 911 253 A	9 9415 1	42	20 201 103	9 9308 1	12
			357 919 506 A	9 9211 1	34	20 210 000	9 9297 1	10
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			431 953 231	9 9027 1	26	20 410 100	9 9069 1	14
			433 951 253 B	9 9011 1	18	2020000	9 9001 1	8

VERGLEICHSLISTE

CROSS REFERENCE LIST

WEHRLE	IKA	Page	WITTRIN	IKA	Page	WITTRIN	IKA	Page
20200100	9 9001 1	8	100 411 020	9 9287 1	4	101 420 301	9 9067 1	14
20200102	9 9000 1	8	100 411 100	9 9288 1	4	101 420 311	9 9068 1	14
20201000	9 9004 1	9	100 412 020	9 9289 1	5	101 421 001	9 9069 1	14
20201100	9 9004 1	9	100 412 100	9 9290 1	5	101 421 101	9 9070 1	14
20207000	9 9005 1	9	100 412 110	9 9291 1	5	101 422 010	9 9071 1	15
20207100	9 9005 1	9	100 412 120	9 9292 1	5	101 422 100	9 9072 1	15
20400000	9 9008 1	13	100 413 000	9 9412 1	5	101 422 110	9 9073 1	15
20400100	9 9008 1	13	100 413 020	9 9422 1	6	101 422 120	9 9074 1	15
20401000	9 9009 1	13	101 210 151	9 9000 1	8	101 423 110	9 9075 1	15
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29201045	9 9057 1	3	101 230 101	9 9111 1	66	101 630 101	9 9112 1	8
29201075	9 9056 1	3	101 230 301	9 9295 1	10	101 630 201	9 9078 1	8
5 233 011	9 9198 1	39	101 230 311	9 9296 1	10	101 810 101	9 9079 1	16
51 216 001	9 9198 1	39	101 231 001	9 9297 1	10	102 270 001	9 9011 1	18
51 216 003	9 9198 1	39	101 231 101	9 9298 1	11	102 270 010	9 9138 1	20
51 233 002	9 9198 1	39	101 231 111	9 9314 1	13	102 270 011	9 9080 1	18
51 299 016	9 9198 1	39	101 232 010	9 9300 1	11	102 270 021	9 9082 1	18
54 201 103	9 9177 1	27	101 232 110	9 9301 1	11	102 270 101	9 9083 1	18
54 201 152	9 9177 1	27	101 233 010	9 9302 1	11	102 271 003	9 9012 1	18
54 207 008	9 9399 1	29	101 233 110	9 9303 1	11	102 271 023	9 9013 1	18
54 229 001	9 9346 1	29	101 240 001	9 9002 1	8	102 272 000	9 9084 1	19
54 229 002	9 9346 1	29	101 240 010	9 9304 1	11	102 272 010	9 9085 1	19
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54201101	9 9027 1	26	101 240 021	9 9306 1	12	102 272 120	9 9087 1	19
54237001	9 9027 1	26	101 240 100	9 9003 1	9	102 292 000	9 9088 1	19
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69200107	9 9033 1	34	101 240 111	9 9307 1	12	102 292 020	9 9090 1	20
			101 240 121	9 9308 1	12	102 292 100	9 9091 1	20
			101 240 201	9 9005 1	9	102 292 110	9 9092 1	20
WITTRIN	IKA	Page	101 240 211	9 9006 1	9	102 292 120	9 9093 1	20
100 220 010	9 9053 1	2	101 240 221	9 9309 1	12	102 440 001	9 9094 1	21
100 221 000	9 9050 1	2	101 241 021	9 9310 1	12	102 440 101	9 9095 1	21
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100 222 020	9 9054 1	2	101 420 001	9 9008 1	13	102 442 020	9 9100 1	22
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100 410 010	9 9425 1	6	101 420 221	9 9066 1	14	102 470 010	9 9312 1	23
100 411 000	9 9286 1	4						

VERGLEICHSLISTE

CROSS REFERENCE LIST

WITTRIN	IKA	Page	WITTRIN	IKA	Page	WITTRIN	IKA	Page
102 470 011	9 9313 1	23	104 246 009	9 9135 1	68	112 210 800	9 9163 1	61
103 200 004	9 9015 1	50	104 249 001	9 9136 1	54	113 213 000	9 9402 1	62
103 205 504	9 9107 1	81	104 253 000	9 9356 1	69	113 214 000	9 9164 1	61
103 208 004	9 9115 1	51	104 280 000	9 9357 1	40	113 414 000	9 9165 1	64
103 208 009	9 9109 1	48	104 280 001	9 9358 1	41	113 414 010	9 9352 1	64
103 210 003	9 9016 1	50	104 412 110	9 9139 1	4	113 414 020	9 9166 1	64
103 210 004	9 9017 1	50	104 417 008	9 9137 1	62	114 214 000	9 9167 1	61
103 210 023	9 9110 1	50	106 242 001	9 9315 1	24	114 414 000	9 9168 1	64
103 210 504	9 9018 1	80	106 242 011	9 9353 1	24	116 213 010	9 9383 1	62
103 212 003	9 9019 1	50	106 422 001	9 9316 1	24	119 219 004	9 9349 1	69
103 213 009	9 9020 1	48	106 422 011	9 9317 1	24	119 249 001	9 9323 1	61
103 214 009	9 9321 1	48	106 422 021	9 9318 1	24	119 413 060	9 9106 1	66
103 214 029	9 9372 1	51	106 422 101	9 9319 1	25	121 220 303	9 9169 1	68
103 218 000	9 9113 1	51	106 422 111	9 9140 1	24	121 240 000	9 9157 1	10
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104 246 000	9 9025 1	66	111 413 060	9 9388 1	64	133 499 000	9 9031 1	30

VERGLEICHSLISTE

CROSS REFERENCE LIST

WITTRIN	IKA	Page	WITTRIN	IKA	Page	WITTRIN	IKA	Page
133 499 001	9 9032 1	30	147 200 004	9 9034 1	34	231 000 002	9 9232 1	72
133 614 000	9 9189 1	26	147 200 005	9 9035 1	34	231 000 021	9 9368 1	74
135 242 100	9 9346 1	29	147 200 006	9 9036 1	34	231 002 001	9 9233 1	72
135 282 100	9 9399 1	29	147 200 008	9 9211 1	34	231 002 005	9 9382 1	74
135 282 101	9 9190 1	28	147 200 009	9 9253 1	35	231 005 001	9 9361 1	73
136 211 100	9 9324 1	28	147 200 010	9 9339 1	36	231 005 008	9 9369 1	74
137 442 100	9 9162 1	30	147 200 011	9 9264 1	35	231 006 001	9 9234 1	72
137 462 101	9 9400 1	33	147 200 012	9 9212 1	35	231 008 001	9 9235 1	72
137 462 102	9 9184 1	31	147 200 013	9 9340 1	36	231 009 002	9 9236 1	72
137 462 103	9 9347 1	32	147 200 014	9 9213 1	35	231 009 005	9 9370 1	74
137 482 100	9 9401 1	33	147 200 015	9 9348 1	36	231 009 006	9 9371 1	74
137 499 100	9 9191 1	31	147 200 016	9 9266 1	35	231 999 000	9 9427 1	74
137 499 101	9 9252 1	32	147 200 017	9 9275 1	36	232 000 100	9 9332 1	73
137 499 102	9 9192 1	31	147 200 021	9 9373 1	36	232 004 000	9 9333 1	73
137 499 103	9 9193 1	31	147 200 512	9 9214 1	35	232 004 100	9 9337 1	73
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144 200 305	9 9442 1	43	170 911 016	9 9433 1	71	241 500 003	9 9239 1	77
144 200 308	9 9405 1	41	170 993 000	9 9434 1	56	241 500 004	9 9240 1	77
144 200 512	9 9198 1	39	201 710 001	9 9421 1	80	241 500 006	9 9040 1	76
144 200 712	9 9049 1	39	201 710 004	9 9217 1	80	241 500 007	9 9041 1	76
144 201 000	9 9045 1	39	201 710 005	9 9218 1	80	241 500 008	9 9042 1	76
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144 260 101	9 9202 1	40	210 400 000	9 9226 1	82	241 502 005	9 9251 1	78
144 260 120	9 9203 1	40	210 401 000	9 9227 1	83	241 503 001	9 9254 1	78
144 276 708	9 9204 1	40	210 402 000	9 9228 1	83	241 503 010	9 9130 1	76
144 434 120	9 9205 1	40	210 403 000	9 9229 1	83	241 503 013	9 9255 1	78
145 200 000	9 9206 1	54	220 500 102	9 9037 1	82	241 503 015	9 9419 1	78
145 200 003	9 9207 1	54	220 500 112	9 9038 1	82	310 000 000	9 9374 1	38
145 200 005	9 9387 1	55	220 501 102	9 9039 1	82	310 000 001	9 9375 1	38
145 200 201	9 9208 1	54	230 075 100	9 9325 1	53	310 000 002	9 9376 1	37
145 200 202	9 9209 1	55	230 100 100	9 9230 1	53	310 000 003	9 9377 1	37
146 200 119	9 9423 1	70	230 250 000	9 9336 1	53	310 000 004	9 9378 1	37
146 202 612	9 9397 1	70	230 250 001	9 9395 1	53	310 000 005	9 9379 1	37
147 200 002	9 9210 1	34	230 300 402	9 9335 1	53	310 000 006	9 9380 1	37
147 200 003	9 9033 1	34	231 000 001	9 9231 1	72	310 000 007	9 9381 1	37

VERGLEICHSLISTE CROSS REFERENCE LIST

WITTRIN	IKA	Page
320 001 000	9 9277 1	51