

Last update 21 September 2022

## Comparison list multifunctional and time relays

Old types	Replaced by	Differences
GZA 10, GZA 20/21, GZA 21, GZE 10, GZE 20, GZE 21, GZI 20, GZI 21, GZU 20, GZU 21, GZU 30 GZP 20, GZP 21  GRA 10, GRE 10, GRI 1, GRI 12, GRL, GRL 1, GRL 6, GRL 12, GRL 18, GRL 38, GRL 68, GRP 1, GRP 2, GRP 10, GRP 11, GRP 16, GRP 31, GRP 32, GRP 33, GRP 38/01 GRT 10, GRT 12, GRT 60, GRT 62, GRT 100 GSL 1  RBL 1, RBL 2  RTL, RTL 10, RTL 30, RTL 60  RI 1, RT 1, RT 2, RT 3, RT 5, RT 6, RT 7, RT 8, RT 10, RT 12  RZEA 30/40, RZIB 30/40, RZAB 30 U21P, U22P	<b>MFT SU22P</b>  Multifunction, 2 changers, potential free control, zoomvoltage	<ul style="list-style-type: none"> <li>Supply voltage 12-240 Vdc</li> <li>Extended time ranges</li> </ul>
GWR, GWR 30 GZPS 20/21 GZW 20  GZPS 20, GZPS 21, GZUS 30  RZIB 40, RZEA 40  U11S, U21S, U22S	<b>MFT SU22S</b>  Multifunction, 2 changers, voltage controlled zoomvoltage	<ul style="list-style-type: none"> <li>No potential free control</li> <li>No wire straps</li> <li>Supply voltage 12-240 Vdc</li> <li>Extended time ranges</li> </ul>
GSR 1, GSR 2 GZEK 20/21 MFT U31S	<b>MFT SU31S</b>  Multifunction, 1 changer, 1 immediate contact optional, voltage controlled	<ul style="list-style-type: none"> <li>No potential free control</li> <li>Optional with or without immediate contact</li> <li>Supply voltage 24 Vac/dc and 110-240 Vac</li> <li>At 24 Vac/dc connections on pin 2 and 7</li> <li>Extended time ranges</li> </ul>
GZU 30 E RT 5E MFT U41SE	<b>MFT SU41SE</b>  Multifunction, 1 changer, 1 NC contact, voltage controlled	<ul style="list-style-type: none"> <li>No potential free control</li> <li>Supply voltage 24 Vac/dc and 110-240 Vac</li> <li>At 24 Vac/dc connections on pin 2 and 7</li> <li>External potentiometer on pin 6 and 8</li> <li>External potentiometer 1M<math>\Omega</math></li> <li>1 Changer and 1 NC contact</li> <li>Extended time ranges</li> </ul>

**Comparison list multifunctional and time relays**

<b>Old types</b>	<b>Replaced by</b>	<b>Differences</b>
GTP 10, GTP 11 GRL 16, GRM 1, GRM 1P GZEA 20, GZEA 21, GZEI 20, GZEI 21, GZEP 30, GZT 20, GZT 21, GZT 30, GZTP 20, GZTP 21, GZTP 21/02  RBL 2 RM 1 RT 9 MFT T21S	<b>MFT ST22S</b> Cycling timer, Delay on and delay off, 2 changers	<ul style="list-style-type: none"><li>• No potential free control</li><li>• Supply voltage 12 ... 240 Vac/dc</li><li>• Extended time ranges</li></ul>
GZT 30 E MFT T51SE	<b>MFT ST51SE</b> Cycling timer, Delay on and delay off, Ext. potmeter, 1 NC contact, 1 NO contact	<ul style="list-style-type: none"><li>• Supply voltage 24 Vac/dc and 110-240 Vac</li><li>• At 24 Vac/dc connections on pin 2 and 7</li><li>• External potentiometer on pin 3, 6 and 8</li><li>• 1 NC contact and 1 NO contact</li><li>• Extended time ranges</li></ul>
GSL 1 GZAH 20 A21S	<b>MFT SA23S</b> Delay off without supply voltage, 2 changers	<ul style="list-style-type: none"><li>• Supply voltage 24 ... 240 Vac/dc</li></ul>
GSD 1 GZD 20 S21S	<b>MFT SS22S</b> Star-delta relay , 2 changers	<ul style="list-style-type: none"><li>• Supply voltage 12 ... 240 Vac/dc</li><li>• Change-over time for star-delta switching adjustable</li><li>• Extended time ranges</li></ul>
GZED, GZED 20 GZUD 30 D42S	<b>No replacement</b>	



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Old types	Replaced by	Differences
DZU 30	<b>DZU 40</b> Multifunction, 2 changers	<ul style="list-style-type: none"> <li>Extended time ranges</li> <li>24 Vac/dc and 110-240 Vac</li> </ul>
DZT 40	<b>MFT IT14S</b>	<ul style="list-style-type: none"> <li>Only functions TP and TI available</li> <li>12-240VAC/DC</li> </ul>
DZT 40	<b>MFT ITU24S</b> Multifunction	<ul style="list-style-type: none"> <li>More functions available</li> <li>12-240VAC/DC</li> </ul>
DZU 40	<b>MFT IU24S</b>	<ul style="list-style-type: none"> <li>Without function S1</li> <li>12-240VAC/DC</li> </ul>
DZA 30 DZB 30 DZE 30 DZI 30 DZA 31 DZE 31 DZU 41	<b>MFT IQ13S</b>	<ul style="list-style-type: none"> <li>Only functions E, A, I1, B2 available</li> <li>24-240VAC/DC</li> </ul>
DZU 41	<b>MFT IU14S</b> Multifunction	<ul style="list-style-type: none"> <li>Without function S1</li> <li>12-240VAC/DC</li> </ul>
GSW 31	<b>No Replacement</b>	
EBG 33 GIR 20, GIR 1 GRK10/20 GSM 1 GWR 30 GZW 20 RK, RK10/20	<b>No Replacement</b>	

**Comparison list monitoring relays**

<b>Old types</b>	<b>Replaced by</b>	<b>Differences</b>
GM-U 40 230/400 VAC GM-U 31, GM-U 3, GM-U 31-0, GM-U 3-0 GM-P 1	<b>EMR SU31D1</b> 3-phase voltage monitoring relay, 1 NC contact, 1 NO contact	<ul style="list-style-type: none"><li>• More set possibilities</li><li>• with or without neutral wire</li><li>• Additional phase sequence monitoring</li><li>• Additional asymmetry monitoring</li></ul>
GM-U 40 132/230 VAC GM-U 31, GM-U 3, GM-U 31-0, GM-U 3-0 GM-P 1	<b>EMR SU31C1</b> 3-phase voltage monitoring relay, 1 NC contact, 1 NO contact	<ul style="list-style-type: none"><li>• More set possibilities</li><li>• with or without neutral wire</li><li>• Additional asymmetry monitoring</li></ul>
GM-U 1 110 VAC	<b>EMR SU21M</b> 2 changers	<ul style="list-style-type: none"><li>• Pin compatible</li><li>• More set possibilities</li></ul>
GM-U 1 230 VAC	<b>EMR SU21N</b> 2 changers	
GM-U 5 24 VDC, GM-U 6 24 VDC	<b>EMR SU21J</b> 2 changers	
GM-U 6 12 VDC	<b>EMR SU21I</b> 2 changers	
GM-U 5 36 VDC	<b>EMR SU21K</b> 2 changers	
GM-U 5 48 VDC, GM-U 6 48 VDC	<b>EMR SU21L</b> 2 changers	
GM-I 10	<b>EMR SI23O</b> 1 NC contact, 1 NO contact	
GM-I 11	<b>EMR SI23P</b> 1 NC contact, 1 NO contact	

**Comparison list solid state relays**

<b>Old types</b>	<b>Replaced by</b>	<b>Differences</b>
HRB D 2830	<b>HD D2825K</b>	New wide 22,5mm instead off 37,1mm
HRB D 6630 HRC D 6635	<b>HD D6035K</b>	New wide 22,5mm instead off 37,1mm bzw. 44,5mm
HRC D 6645 HRC D 6655	<b>HD D6050K</b>	New wide 22,5mm instead off 44,5mm
HRC D 6665	<b>HD D6075K</b>	New wide 22,5mm instead off 44,5mm
HRK 0,5C	<b>HK 0,9</b>	0,9°C/W
HRK 0,5LB 230	<b>HK 0,3 LB 230</b>	Offered only as a combination of fan and heat sink
HRK 0,8	<b>HK 0,9</b>	0,9°C/W
HRK 0,8LB 230	<b>HK 0,3 LB 230</b>	Offered only as a combination of fan and heat sink
HRK 1,7C	<b>HK 2,2</b>	2,2°C/W
HRK 5,0	<b>No Replacement</b>	
HRL 440 A 0,5R HRL 440 A 1,5R HRL 440 A 3,0R HRL 440 D 0,5R HRL 440 D 1,5R HRL 440 D 3,0R	<b>HL D5208R</b>	Only DC-Control 3x8,5A
HRL 480 A 25 HRL 480 A 40 HRL 480 A 55	<b>HL A5250</b>	3x50A
HRL 480 D 25 HRL 480 D 40 HRL 480 D 55	<b>HL D5250</b>	3x50A
HRM D 2403	<b>HM D2704</b>	New 4A instead off 3A
HRM D06D03	<b>HM D0603D</b>	
HRM PG1	<b>HM D2704 PG HM D0603D PG HM D6004 PG</b>	Available only in combination with relay
HRP 240 D3	<b>No Replacement</b>	
HRQ D 4810L	<b>HQ D6010L</b>	
HRQ D 4810H	<b>HQ D6010H</b>	
HRQ PG1	<b>HQ D6010L PG HQ D6010H PG</b>	Available only in combination with relay
HRS A 2410 HRS A 2425	<b>HS A2825</b>	Input 185...265Vac/dc Output 12..280/25A
HRS A 2450	<b>HS A5150</b>	Input 20...265Vac/dc Output 24...510VAC/50
HRS A 2490 HRS AD 4890E	<b>HS A5175</b>	Input 20...265Vac/dc Output 24...510VAC/75A

**Comparison list solid state relays**

<b>Old types</b>	<b>Replaced by</b>	<b>Differences</b>
HRS 240 D5 HRS 240 D10 HRS 240 D25 HRS D 2402 HRS D 2402 HRS D 2410 HRS D 2425	<b>HS D2825</b>	25A
HRS 440 D30 HRS D 4825	<b>HS D6035</b>	Output 24...600Vac/35A
HRS 240 D45 HRS 440 D45 HRS 530 D45 HRS D 2450 HRS D 4850 HRS D6650	<b>HS D6050</b>	Output 24...600Vac/50A
HRS D 4825D HRS D 4840D	<b>No Replacement</b>	
HRS 530 D80 HRS D 4890 HRS D 6690	<b>HS D6075</b>	Output 24...600Vac/75A
HRS D 48125	<b>HS D51125</b>	Output 24...510Vac/125A
HRS D 5325M HRS D 5350M	<b>HS D5135M</b>	Output 24...510Vac/35A
HRS D1D07 HRS D1D12 HRS D2D07 HRS D2D12	<b>HS D1120D</b>	Output 5...110Vdc/20A
HRS D1D40	<b>HS D1140D</b>	Output 5...110Vdc/40A
HRT D 4805H	<b>HT D6005H</b>	Output 24...600Vac
HRT D 4805L	<b>HT D6005L</b>	Output 24...600Vac
HRT PG1	<b>HM D6004 PG</b>	Available only in combination with relay
HRV A 4825 HRV A 5150	<b>HL A5250</b>	Output 24...520Vac/50A
HRV D 4825 HRV D 4850	<b>HL D5250</b>	Output 24...520Vac/50A
SA 2 SA 3	<b>No Replacement</b>	All relays have an existing terminal cover
TS 70 TS 90	<b>TS 90 M6</b>	Only for HK 0,9
V250 1PH V460 1PH V460 3PH	<b>No Replacement</b>	All relays have a surge protector
WLF 1PH WLF 3PH	<b>No Replacement</b>	All relays are supplied with heat conducting

No responsibility for correctness of this information