

# **IM Relay**

- Slim line 10x6mm, low profile 5.65mm and min. board-space 60mm<sup>2</sup>
- Switching current 2/5A, switching power 60W/62.5VA and switching voltage 220VDC/250VAC
- Low coil power consumption,
   140mW standard, 100mW for high sensitive version, 50mW for ultra high sensitive version and 100mW for bistable version
- High dielectric and surge capability up to 2500Vrms between open contacts and 2500Vrms between coil and contacts
- High mechanical shock resistance up to 50g functional

#### Typical applications

Telecommunication, access and transmission equipment, optical network terminals, modems, office and business equipment, consumer electronics, measurement and test equipment, industrial control, medical equipment, HVAC. Buyer entirely assumes the risk and all liability relating to (a) assessing the suitability for Buyer's intended use of the Products and of any system design or drawing and (b) determining the compliance of Buyer's use of the Products with applicable laws, regulations, codes and standards. For more info on the exclusive and applicable warranty, please refer to TE standard warranty terms.

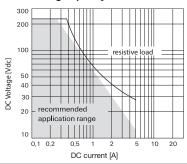
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|---|---|---|----|-------|---|
|   |   |   |    |       |   |

UL 508 File No. E 111441

Technical data of approved types on request

| Contact Data                             | standard, C                   | D, I             | Р            |  |  |
|------------------------------------------|-------------------------------|------------------|--------------|--|--|
|                                          | standard and                  | high             | high contact |  |  |
|                                          | high dielectric               | current          | stability    |  |  |
|                                          | version                       | version          | version      |  |  |
| Contact arrangement                      | 2                             | form C, 2 C      | 0            |  |  |
| Max. switching voltage                   | 220VDC,                       | 220VDC,          | 220VDC,      |  |  |
|                                          | 250VAC                        | 250VAC           | 250VAC       |  |  |
| Rated current                            | 2A                            | 5A <sup>1)</sup> | 2A           |  |  |
| Limiting continuous current              | 2A                            | 5A <sup>1)</sup> | 2A           |  |  |
| 1) for 5A applications please contact TE |                               |                  |              |  |  |
| Switching power                          | 6                             | 60W, 62.5VA      | 4            |  |  |
| Contact material                         | PdRu                          | AgNi             | PdRu         |  |  |
|                                          | +Au                           | +Au              | +Au          |  |  |
|                                          | covered                       | covered          | covered      |  |  |
| Contact style                            | twin cont.                    | twin cont.       | twin cont.   |  |  |
|                                          | l: s                          | single contac    | ots          |  |  |
| Minimum switching voltage                |                               | 100µV            |              |  |  |
| Initial contact resistance               | $<$ 50m $\Omega$ at 10mA/30mV |                  |              |  |  |
|                                          |                               | $I:<100 m\Omega$ |              |  |  |
| Thermoelectric potential                 |                               | <10µV            |              |  |  |
| Operate time                             | typ.                          | 1ms, max.        | 3ms          |  |  |
| Release time                             |                               |                  |              |  |  |
| without diode in parallel                | typ.                          | 1ms, max.        | 3ms          |  |  |
| with diode in parallel                   | typ. 3ms, max. 5ms            |                  |              |  |  |
| Bounce time max.                         | typ.                          | 1ms, max.        | 5ms          |  |  |
|                                          |                               |                  |              |  |  |

# Max. DC load breaking capacity







## Contact Data (continued)

Electrical endurance
at contact application 0
(≤30mV/≤10mA)
cable load open end
resistive, 125VDC / 0.24A - 30W
resistive, 220 VDC / 0.27A - 60W
resistive, 250VAC / 0.25A - 62.5VA
resistive, 30VDC / 1A - 30W
resistive, 30VDC / 2A - 60W

resistive, 30VDC / 1A - 30W
resistive, 30VDC / 2A - 60W

UL contact rating

min. 5x10<sup>5</sup> operations
min. 1x10<sup>5</sup> operations
30VDC, 2A, 60W, NO only
110VDC, 0.3A, 33W
220VDC, 0.27A, 60W

110VDC, 0.3A, 33W 220VDC, 0.27A, 60W 125VAC, 0.5A, 62.5W 250VAC, 0.25A, 62.5W

min. 2.5x10<sup>6</sup> operations

min. 2.0x10<sup>6</sup> operations

min. 5x10<sup>5</sup> operations

min. 1x10<sup>5</sup> operations min. 1x10<sup>5</sup> operations

30VAC, 2A 62.5W, NO only (IMxxI, IMxxD) Mechanical endurance min. 10<sup>7</sup> operations

Coil Data

 Magnetic system
 monostable, bistable

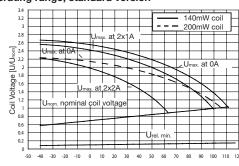
 Coil voltage range
 1.5 to 24VDC

| Coil versions, | etandard | version  | monoetable  | 4   | coil |
|----------------|----------|----------|-------------|-----|------|
| Coll versions, | standard | version, | monostable, | - 1 | COII |

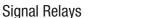
| Coil | Rated   | Operate | Release | Coil       | Rated coil |
|------|---------|---------|---------|------------|------------|
| code | voltage | voltage | voltage | resistance | power      |
|      | VDC     | VDC     | VDC     | Ω±10%      | mW         |
| 00   | 1.5     | 1.13    | 0.15    | 16         | 140        |
| 08   | 2.4     | 1.80    | 0.24    | 41         | 140        |
| 01   | 3       | 2.25    | 0.30    | 64         | 140        |
| 02   | 4.5     | 3.38    | 0.45    | 145        | 140        |
| 03   | 5       | 3.75    | 0.50    | 178        | 140        |
| 04   | 6       | 4.50    | 0.60    | 257        | 140        |
| 05   | 9       | 6.75    | 0.90    | 579        | 140        |
| 06   | 12      | 9.00    | 1.20    | 1029       | 140        |
| 07   | 24      | 18.00   | 2.40    | 2880       | 200        |

All figures are given for coil without pre-energization, at ambient temperature +23°C

## Coil operating range, standard version



Ambient Temperature [°C]



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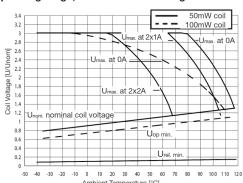


## IM Relay (Continued)

| Coil Da   | ita (continued | d)             |             |              |            |
|-----------|----------------|----------------|-------------|--------------|------------|
| Coil vers | sions, sensit  | ive version, r | nonostable, | 1 coil       |            |
| Coil      | Rated          | Operate        | Release     | Coil         | Rated coil |
| code      | voltage        | voltage        | voltage     | resistance   | power      |
|           | VDC            | VDC            | VDC         | Ω±10%        | mW         |
| 11        | 3              | 2.40           | 0.30        | 91           | 100        |
| 12        | 4.5            | 3.60           | 0.45        | 194          | 100        |
| 13        | 5              | 4.00           | 0.50        | 234          | 100        |
| 16        | 12             | 9.60           | 1.20        | 1315         | 110        |
| 17        | 24             | 19.20          | 2.40        | 4120         | 140        |
| Coil vers | sions, ultra h | igh sensitive  | version, mo | onostable, 1 | coil       |
| Coil      | Rated          | Operate        | Release     | Coil         | Rated coil |
| code      | voltage        | voltage        | voltage     | resistance   | power      |
|           | VDC            | VDC            | VDC         | Ω±10%        | mW         |
| 21        | 3              | 3.00           | 0.30        | 180          | 50         |
| 22        | 4.5            | 4.50           | 0.45        | 405          | 50         |
| 23        | 5              | 5.00           | 0.50        | 500          | 50         |
| 26        | 12             | 12.00          | 1.20        | 2880         | 50         |

All figures are given for coil without pre-energization, at ambient temperature +23°C

#### Coil operating range, sensitive and ultra high sensitive coil

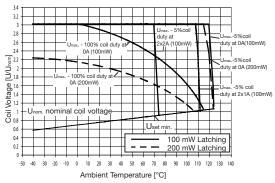


Coil versions, standard, bistable 1 coil

|      | ,       | ,       |         |            |            |
|------|---------|---------|---------|------------|------------|
| Coil | Rated   | Set     | Reset   | Coil       | Rated coil |
| code | voltage | voltage | voltage | resistance | power      |
|      | VDC     | VDC     | VDC     | Ω±10%      | mW         |
| 40   | 1.5     | 1.13    | -1.13   | 23         | 100        |
| 48   | 2.4     | 1.80    | -1.80   | 58         | 100        |
| 41   | 3       | 2.25    | -2.25   | 90         | 100        |
| 42   | 4.5     | 3.38    | -3.38   | 203        | 100        |
| 43   | 5       | 3.75    | -3.75   | 250        | 100        |
| 44   | 6       | 4.50    | -4.50   | 360        | 100        |
| 45   | 9       | 6.75    | -6.75   | 810        | 100        |
| 46   | 12      | 9.00    | -9.00   | 1440       | 100        |
| 47   | 24      | 18.00   | -18.00  | 2880       | 200        |

All figures are given for coil without pre-energization, at ambient temperature +23°C

### Coil operating range, bistable 1 coil



| Insulation Data                 | standard             | <b>C</b> <sup>2)</sup> | D,P, I              |
|---------------------------------|----------------------|------------------------|---------------------|
|                                 | standard,            | high                   | high current,       |
|                                 | sensitive,           | dielectric             | high contact        |
|                                 | ultra high           | version                | stability           |
|                                 | sensitive            |                        | version             |
|                                 | version              |                        |                     |
| Initial dielectric strength     |                      |                        |                     |
| between open contacts           | $750V_{rms}$         | $1500V_{rms}$          | 750V <sub>rms</sub> |
| between contact and coil        | $1800V_{rms}$        | $1800V_{rms}$          | $1500V_{rms}$       |
| between adjacent contacts       | 1000V <sub>rms</sub> | $1800V_{rms}$          | 750V <sub>rms</sub> |
| Initial surge withstand voltage |                      |                        |                     |
| between open contacts           | 1500V                | 2500V                  | 1000V               |
| between contact and coil        | 2500V                | 2500V                  | 2000V               |
| between adjacent contacts       | 1500V                | 2500V                  | 1000V               |
| Initial insulation resistance   |                      |                        |                     |
| between insulated elements      | $>10^{9}\Omega$      | $>10^{9}\Omega$        | >10 <sup>9</sup> Ω  |
| Capacitance                     |                      |                        |                     |
| between open contacts           |                      | max. 1pF               |                     |
| between contact and coil        |                      | max. 2pF               |                     |
| between adjacent contacts       |                      | max. 2p                |                     |

2) this relay contains SF6 (Sulfur hexafluoride, CAS number: 2551-62-4) for dielectric strength enhancement, SF6 is hermetically sealed in relay without leaks to air during normal application as recommended per the applicable product specification. It is clarified that the usage of SF6 in mini signal relay is not prohibited by related regulations. Please contact TE local sales or field engineer for further information and detailed material declaration. To ensure the dielectric performance after soldering processes / assembly customer is advised to perform a dielectric test

| RF Data                            |               |  |
|------------------------------------|---------------|--|
| Isolation at 100MHz/900MHz         | 37.0dB/18.8dB |  |
| Insertion loss at 100MHz/900MHz    | 0.03dB/0.33dB |  |
| Voltage standing wave ratio (VSWR) |               |  |
| at 100MHz/900MHz                   | 1.06/1.49     |  |

#### **Other Data**

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter

| Ambient temperature                       | -40°C to +85°C             |
|-------------------------------------------|----------------------------|
| Thermal resistance                        | <150K/W                    |
| Category of environmental protection      |                            |
| IEC 61810                                 | RT V - hermetically sealed |
| Vibration resistance (functional)         | 20g, 10 to 500Hz           |
| Shock resistance (functional), half sinus | s 11ms 50g                 |
| Shock resistance (destructive), half sinu | us 0.5ms 500g              |
| Mounting position                         | any                        |
| Weight                                    | max. 0.75g                 |
| Resistance to soldering heat SMT          |                            |

IEC 60068-2-58

Moisture sensitive level, JEDEC J-STD-020E MSL3 related only to SMT relays packed in orginal dry-packs. Calculated shelf life in sealed bag: 36 months at <40° C and <90% relative humidity (RH). Floor life (out of the bag) at assembly site is 168 Hours at ≤ 30%00% RH.

Ultrasonic cleaning not recommended Packaging/unit THT version tube/50pcs., box/1000 pcs. SMT version reel/1000 pcs., box/1000 or 5000 pcs.

Monostable version rest condition

> 2 3 4

2 3 4

Bistable version, 1 coil

reset condition

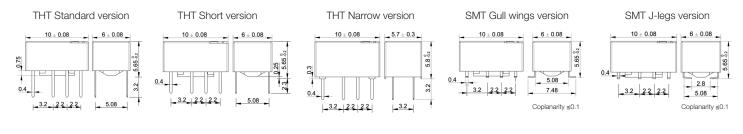
Contacts are shown in reset condition. Contact position might change during transportation and must be reset before use.



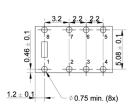
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# IM Relay (Continued)

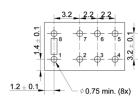
### Dimensions (Unit: mm)



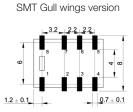
PCB layout
Top view on component side of PCB

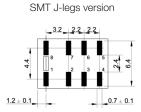


THT Standard and Short version



THT Narrow version



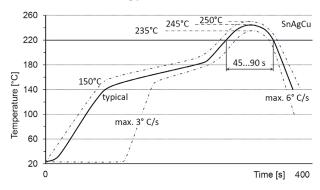


Customer needs to apply enough solder paste volume / thickness / solder material content to ensure a stable solder joint

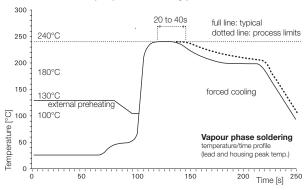
#### **Processing**

Recommended soldering conditions

## Recommended reflow soldering profile IEC 61760-1



### Recommended vapor phase soldering profile





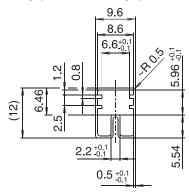
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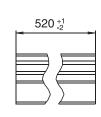


# IM Relay (Continued)

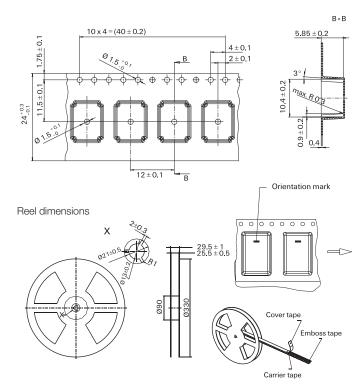
### **Packing**

Tube for THT version 50 relays per tube, 1000 relays per box





Tape and reel for SMT version 1000 relays per reel, 1000 or 5000 relays per box



| Prod  | uct co  | de structure                              | Т                | ypical product code                                                                                                   | IM |     | 03 | G | R |
|-------|---------|-------------------------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------|----|-----|----|---|---|
| Туре  | IM      | Signal Relays IM Series                   |                  |                                                                                                                       |    |     |    |   |   |
| Conta |         | ngement<br>2 form C, 2 CO                 |                  |                                                                                                                       |    | _   |    |   |   |
| Coil  | Coil co | ode: please refer to coil versions table  |                  |                                                                                                                       |    |     | 3  |   |   |
| Perfo | rmance  | type                                      |                  |                                                                                                                       |    |     |    |   |   |
|       | Blank   | Standard version                          | R<br>I<br>C<br>D | Customer specific<br>High current version<br>High dielectric version<br>High current version<br>High contact stabilit | on | act |    |   |   |
| Termi | nals    |                                           |                  |                                                                                                                       |    |     |    | • |   |
|       |         | T - standard                              | J                | SMT - J-leg                                                                                                           |    |     |    |   |   |
|       |         | HT - narrow version<br>HT - short version | G                | SMT - gull wing                                                                                                       |    |     |    |   |   |
| Packi | -       | be                                        | R                | Reel                                                                                                                  |    |     |    |   |   |



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# IM Relay (Continued)

| Product code         | Arrangement | Perf. type | Coil   | Coil type  | Coil       | Terminals     | Part number |
|----------------------|-------------|------------|--------|------------|------------|---------------|-------------|
| IM00GR               | 2 form C,   | Standard   | 1.5VDC | Monostable | Standard   | SMT gull wing | 3-1462037-7 |
| IM00JR               | 2 CO        |            |        |            |            | SMT J-leg     | 3-1462037-9 |
| IM00NS               | contacts    |            |        |            |            | THT narrow    | 1-1462038-0 |
| IM01GR               |             |            | 3VDC   |            |            | SMT gull wing | 1462037-1   |
| IM01JR               |             |            |        |            |            | SMT J-leg     | 4-1462037-0 |
| IM01NS               |             |            |        |            |            | THT narrow    | 1-1462038-1 |
| IM01TS               |             |            |        |            |            | THT standard  | 1462037-4   |
| IM02GR               |             |            | 4.5VDC |            |            | SMT gull wing | 1462037-9   |
| IM02JR               |             |            |        |            |            | SMT J-leg     | 1-1462037-1 |
| IM02NS               |             |            |        |            |            | THT narrow    | 1-1462038-2 |
| IM03GR               |             |            | 5VDC   |            |            | SMT gull wing | 1-1462037-4 |
| IM03JR               |             |            |        |            |            | SMT J-leg     | 1-1462037-6 |
| IM03NS               |             |            |        |            |            | THT narrow    | 1-1462038-3 |
| IM03TS               |             |            |        |            |            | THT standard  | 1-1462037-8 |
| IM04GR               |             |            | 6VDC   |            |            | SMT gull wing | 4-1462037-2 |
| IM04JR               |             |            |        |            |            | SMT J-leg     | 4-1462037-4 |
| IM04NS               |             |            |        |            |            | THT narrow    | 1-1462038-4 |
| IM05GR               |             |            | 9VDC   |            |            | SMT gull wing | 3-1462037-4 |
| IM05JR               |             |            |        |            |            | SMT J-leg     | 4-1462037-5 |
| IM05NS               |             |            |        |            |            | THT narrow    | 1-1462038-5 |
| IM05TS               |             |            |        |            |            | THT standard  | 2-1462037-2 |
| IM06GR               |             |            | 12VDC  |            |            | SMT gull wing | 2-1462037-3 |
| IM06JR               |             |            |        |            |            | SMT J-leg     | 4-1462037-6 |
| IM06NS               |             |            |        |            |            | THT narrow    | 1-1462038-6 |
| IM07GR               |             |            | 24VDC  |            |            | SMT gull wing | 4-1462037-7 |
| IM07JR               |             |            |        |            |            | SMT J-leg     | 4-1462037-8 |
| IM07NS               |             |            |        |            |            | THT narrow    | 1-1462038-7 |
| IM08GR               |             |            | 2.4VDC |            |            | SMT gull wing | 6-1462039-3 |
| IM11GR               |             |            | 3VDC   |            | High sens. |               | 9-1462038-5 |
| IM12GR               |             |            | 4.5VDC |            |            |               | 1462039-3   |
| IM13GR               |             |            | 5VDC   |            |            |               | 1462039-4   |
| IM16GR               |             |            | 12VDC  |            |            |               | 1462039-5   |
| 3) IM17GR            |             |            | 24VDC  |            |            |               | 1462039-6   |
| 3) IM17TS            |             |            |        |            |            | THT standard  | 4-1462039-6 |
| IM21GR               |             |            | 3VDC   |            | Ultra      | SMT gull wing | 2-1462039-6 |
| IM21TS               |             |            |        |            | high       | THT standard  | 1-1462039-5 |
| IM22GR               |             |            | 4.5VDC |            | sensitive  | SMT gull wing | 2-1462039-7 |
| IM22TS               |             |            |        |            |            | THT standard  | 2-1462039-8 |
| IM23GR               |             |            | 5VDC   |            |            | SMT gull wing | 2-1462039-9 |
| IM23TS               |             |            |        |            |            | THT standard  | 3-1462039-0 |
| IM23KS               |             |            |        |            |            | THT short     | 6-1462039-7 |
| IM26GR               |             |            | 12VDC  |            |            | SMT gull wing | 3-1462039-1 |
| IM26TS               |             |            |        |            |            | THT standard  | 3-1462039-2 |
| 4) IM40GR            |             |            | 1.5VDC | Bistable   | Standard   | SMT gull wing | 5-1462037-1 |
| 4) IM40JR            |             |            |        |            |            | SMT J-leg     | 5-1462037-2 |
| 4) IM40NS            |             |            |        |            |            | THT narrow    | 1-1462038-8 |
| 4) IM40TS            |             |            |        |            |            | THT standard  | 5-1462037-0 |
| <sup>4)</sup> IM41GR |             |            | 3VDC   |            |            | SMT gull wing | 5-1462037-4 |
| <sup>4)</sup> IM41JR |             |            |        |            |            | SMT J-leg     | 5-1462037-5 |
| 4) IM41NS            |             |            |        |            |            | THT narrow    | 1-1462038-9 |
| 4) IM41TS            |             |            |        |            |            | THT standard  | 5-1462037-3 |
| 4) IM42GR            |             |            | 4.5VDC |            |            | SMT gull wing | 3-1462037-1 |
| <sup>4)</sup> IM42JR |             |            |        |            |            | SMT J-leg     | 5-1462037-7 |
| 4) IM42NS            |             |            |        |            |            | THT narrow    | 2-1462038-0 |
| 4) IM42TS            |             |            |        |            |            | THT standard  | 5-1462037-6 |
| 4) IM43GR            |             |            | 5VDC   |            |            | SMT gull wing | 5-1462037-9 |
| 4) IM43JR            |             |            |        |            |            | SMT J-leg     | 6-1462037-0 |
| 4) IM43NS            |             |            |        |            |            | THT narrow    | 2-1462038-1 |
| 4) IM43TS            |             |            |        |            |            | THT standard  | 5-1462037-8 |
| 4) IM44GR            |             |            | 6VDC   |            |            | SMT gull wing | 6-1462037-2 |
| 4) IM44JR            |             |            |        |            |            | SMT J-leg     | 6-1462037-3 |
| 4) IM44NS            |             |            |        |            |            | THT narrow    | 2-1462038-2 |
| 4) IM44TS            |             |            |        |            |            | THT standard  | 6-1462037-1 |
| 4) IM45GR            |             |            | 9VDC   |            |            | SMT gull wing | 6-1462037-4 |
| 4) IM45JR            |             |            |        |            |            | SMT J-leg     | 6-1462037-5 |
| 4) IM45NS            |             |            |        |            |            | THT narrow    | 2-1462038-3 |
| 4) IM46GR            |             |            | 12VDC  |            |            | SMT gull wing | 6-1462037-7 |
| 4) IM46JR            |             |            |        |            |            | SMT J-leg     | 6-1462037-8 |
| 4) IM46NS            |             |            |        |            |            | THT narrow    | 2-1462038-4 |
| 4) IM46TS            |             |            |        |            |            | THT standard  | 6-1462037-6 |
| IM47GR               |             |            | 24VDC  |            |            | SMT gull wing | 7-1462037-0 |
| IM47JR               |             |            |        |            |            | SMT J-leg     | 7-1462037-1 |
| IM47NS               |             |            |        |            |            | THT narrow    | 2-1462038-5 |
| IM47TS               |             |            |        |            |            | THT standard  | 6-1462037-9 |



Signal Relays AXICOM

# IM Relay (Continued)

| Product code | Arrangement | Perf. type | Coil      | Coil type    | Coil       | Terminals           | Part number |
|--------------|-------------|------------|-----------|--------------|------------|---------------------|-------------|
| 4) IM48GR    |             |            | 2.4VDC    |              |            | SMT gull wing       | 1462039-8   |
| IM01CGR      | 2 form C    | High       | 3VDC      | Monostable   | Standard   | SMT gull wing       | 1462038-4   |
| IM01CTS      | 2 CO        | dielectric |           |              |            | THT standard        | 9-1462038-6 |
| IM02CGR      | contacts    |            | 4.5VDC    |              |            | SMT gull wing       | 1462038-1   |
| IM03CGR      |             |            | 5VDC      |              |            |                     | 1462038-2   |
| IM03CJR      |             |            |           |              |            | SMT J-leg           | 4-1462039-8 |
| IM03CTS      |             |            |           |              |            | THT standard        | 4-1462039-7 |
| IM05CGR      |             |            | 9VDC      |              |            | SMT gull wing       | 1462038-3   |
| IM06CGR      |             |            | 12VDC     |              |            | 3. 3.               | 9-1462037-9 |
| IM06CJR      |             |            |           |              |            | SMT J-leg           | 3-1462039-4 |
| IM06CTS      |             |            |           |              |            | THT standard        | 4-1462037-9 |
| IM07CGR      |             |            | 24VDC     |              |            | SMT gull wing       | 1462039-2   |
| IM07CTS      |             |            | 21100     |              |            | THT standard        | 1462039-1   |
| IM17CGR      |             |            |           |              | High sens. | SMT gull wing       | 1462039-7   |
| 4) IM41CGR   |             |            | 3VDC      | Bistable     | Standard   | _ Sivir gail willig | 4-1462039-2 |
| 4) IM42CGR   |             |            | 4.5VDC    | Distable     | Staridard  |                     | 4-1462039-1 |
| 4) IM43CGR   |             |            | 5VDC      |              |            |                     | 9-1462038-7 |
| 4) IM48CGR   |             |            | 2.4VDC    |              |            |                     | 9-1462039-0 |
| IM02DGR      |             | High       | 4.5VDC    | Monostable   | Standard   |                     | 9-1462039-0 |
| IM02IJR      |             | current    | 4.5000    | IVIONOStable | Staridard  | SMT J-leg           | 1462047-8   |
| IM02IGR      |             | Current    |           |              |            | SMT gull wing       | 1462047-9   |
| IM03DGR      |             |            | 5VDC      |              |            | SMT gull wing       |             |
|              |             |            | 2VDC      |              |            | SMT J-leg           | 9-1462038-9 |
| IM03DJR      |             |            | 0) (D0    |              |            |                     | 3-1462039-3 |
| IM05DGR      |             |            | 9VDC      |              |            | SMT gull wing       | 1-1462039-7 |
| IM06DGR      |             |            | 12VDC     |              |            | ONAT LI             | 1-1462039-8 |
| IM06DJR      |             |            |           |              |            | SMT J-leg           | 7-1462039-0 |
| IM06DTS      |             |            | 2 11 15 2 |              |            | THT standard        | 3-1462039-8 |
| IM07DGR      |             |            | 24VDC     |              |            | SMT gull wing       | 3-1462039-7 |
| IM07DJR      |             |            |           |              |            | SMT J-leg           | 7-1462039-4 |
| IM07DTS      |             |            |           |              |            | THT standard        | 7-1462039-2 |
| IM22DTS      |             |            | 4.5VDC    |              | U.h.sens.  |                     | 7-1462039-6 |
| IM41DGR      |             |            | 3VDC      | Bistable     | Standard   | SMT gull wing       | 6-1462039-8 |
| IM42DGR      |             |            | 4.5VDC    |              |            |                     | 1-1462039-9 |
| IM42DNS      |             |            |           |              |            | THT narrow          | 1-1462039-6 |
| IM46DNS      |             |            | 12VDC     |              |            |                     | 1-1462039-2 |
| IM47DJR      |             |            | 24VDC     |              |            | SMT J-leg           | 7-1462039-5 |
| IM48DGR      |             |            | 2.4VDC    |              |            | SMT gull wing       | 1462039-9   |
| IM49DGR      |             |            | 2VDC      |              |            |                     | 2-1462039-2 |
| IM40IGR      |             |            | 1.5VDC    |              |            |                     | 1462047-7   |
| IM48IGR      |             |            | 2.4VDC    |              |            |                     | 1462047-1   |
| IM49IGR      |             |            | 2VDC      |              |            |                     | 1462047-4   |
| IM02PGR      |             | High       | 4.5VDC    | Monostable   | Standard   |                     | 5-1462039-4 |
| IM02PNS      |             | contact    |           |              |            | THT narrow          | 5-1462039-8 |
| IM03PGR      |             | stability  | 5VDC      |              |            | SMT gull wing       | 5-1462039-5 |
| IM03PJR      |             |            |           |              |            | SMT J-leg           | 6-1462039-6 |
| IM03PNS      |             |            |           |              |            | THT narrow          | 5-1462039-9 |
| IM06PGR      |             |            | 12VDC     |              |            | SMT gull wing       | 5-1462039-6 |
| IM06PNS      |             |            | 12,000    |              |            | THT narrow          | 6-1462039-0 |
| IM42PGR      |             |            | 4.5VDC    | Bistable     | Standard   | SMT gull wing       | 5-1462039-7 |
| IM42PNS      |             |            | 7.0700    | DISTANIE     | Glailualu  | THT narrow          | 7-1462039-8 |
| IM43PGR      |             |            |           |              |            | SMT gull wing       | 7-1462039-8 |
| IM46PNS      |             |            | 12VDC     |              |            | TUT parrow          | 6-1462039-1 |
| IIVI40FINO   |             |            | 12100     |              |            | THT narrow          | 0-1402039-1 |

<sup>3)</sup> Restricted product, for more information contact TE

Note. This list represents the most common types and does not show all variants covered by this datasheet. Other types on request.

<sup>4)</sup> Type VDE certified, for more information contact TE