# Product data sheet
## Characteristics

# GV4PE80S
Motor circuit breaker, TeSys GV4, 3P, 80A, Icu 100kA, thermal magnetic, Everlink terminals



## Main

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|---|---|
| Range | TeSys Deca |
| Range of product | TeSys GV4 |
| Device short name | GV4PE |
| Product name | TeSys GV4 |
| Product or component type | Motor circuit breaker |
| Device application | Motor protection |
| Trip unit technology | Thermal-magnetic<br>Electronic |

## Complementary

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|---|---|
| Poles description | 3P |
| Utilisation category | Category A conforming to IEC 60947-2<br>AC-3 conforming to IEC 60947-4-1 |
| Operating position | Any position |
| Motor power kW | 37 KW at 400...415 V AC 50/60 Hz<br>45 KW at 500 V AC 50/60 Hz<br>22 KW at 400...415 V AC 50/60 Hz<br>30 KW at 500 V AC 50/60 Hz<br>37 KW at 660...690 V AC 50/60 Hz<br>45 KW at 660...690 V AC 50/60 Hz<br>55 KW at 660...690 V AC 50/60 Hz<br>30 KW at 400...415 V AC 50/60 Hz<br>37 KW at 500 V AC 50/60 Hz |
| Breaking capacity | 120 KA Icu at 220...240 V AC 50/60 Hz conforming to IEC 60947-2<br>100 KA Icu at 380...415 V AC 50/60 Hz conforming to IEC 60947-2<br>70 KA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>30 KA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>18 KA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>100 KA at 208Y/120 V AC 50/60 Hz conforming to UL 60947<br>100 KA at 240 V AC 50/60 Hz conforming to UL 60947<br>65 KA at 480Y/277 V AC 50/60 Hz conforming to UL 60947<br>10 KA Icu at 660...690 V AC 50/60 Hz conforming to IEC 60947-2<br>25 KA at 600Y/347 V AC 50/60 Hz conforming to UL 60947 |
| Control type | Toggle |
| [In] rated current | 80 A |
| Magnetic tripping current | 1360 A |
| [Ue] rated operational voltage | 690 V AC 50/60 Hz conforming to IEC 60947-2 |
| [Ui] rated insulation voltage | 800 V AC 50/60 Hz conforming to IEC 60947-2 |
| [Ith] conventional free air thermal current | 115 A conforming to IEC 60947-4-1 |
| [Uimp] rated impulse withstand voltage | 8 KV conforming to IEC 60947-2 |
| Power dissipation per pole | 4.6 W |
| Mechanical durability | 40000 Cycles |

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|---|---|
| Electrical durability | 5000 Cycles for AC-3 at 415 V opening<br>5000 Cycles for AC-3 at 415 V closing |
| Maximum operating rate | 25 Cyc/H |
| Rated duty | Continuous conforming to IEC 60947-4-1 |
| Connections - terminals | EverLink BTR screw connectors (top): 1 cable(s) 1.5…70 mm² - solid<br>EverLink BTR screw connectors (top): 1 cable(s) 1.5…50 mm² - flexible<br>EverLink BTR screw connectors (bottom): 1 cable(s) 2.5…95 mm² - solid<br>EverLink BTR screw connectors (bottom): 1 cable(s) 2.5…70 mm² - flexible |
| Tightening torque | 9 N.M for cable 16…95 mm²<br>5 N.M for cable 1.5…10 mm² |
| Mechanical robustness | Vibrations: +/- 1 mm 2...13.2 Hz conforming to IEC 60068-2-6<br>Vibrations: 0.7 gn 13.2...100 Hz conforming to IEC 60068-2-6<br>Shocks: 15 gn 11 ms conforming to IEC 60068-2-27 |
| Phase failure sensitivity | Yes conforming to IEC 60947-4-1 |
| Height | 155 Mm |
| Width | 81 Mm |
| Depth | 116 Mm |
| Net weight | 1.45 Kg |
| Colour | Grey (RAL 7016) |
| Suitability for isolation | Yes conforming to IEC 60947-1 |

## Environment

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|---|---|
| Standards | CSA C22.2 No 60947-4-1<br>UL 60947-4-1<br>EN/IEC 60947-4-1<br>EN/IEC 60947-2 |
| Product certifications | IEC[RETURN]UL[RETURN]CSA[RETURN]CCC[RETURN]EAC[RETURN]ATEX[RETURN]EU-RO |
| Climatic withstand | Conforming to IACS E10 |
| IK degree of protection | IK07 conforming to IEC 62262 |
| Pollution degree | 3 |
| IP degree of protection | IP40 conforming to IEC 60529 |
| Ambient air temperature for storage | -50…85 °C |
| Fire resistance | 960 °C conforming to IEC 60695-2-11 |
| Operating altitude | 5000 m |
| Ambient air temperature for operation | -25…70 °C |

## Packing Units

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|---|---|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 17.0 Cm |
| Package 1 Width | 11.0 Cm |
| Package 1 Length | 22.0 Cm |
| Package 1 Weight | 1.68 Kg |
| Unit Type of Package 2 | S03 |
| Number of Units in Package 2 | 5 |
| Package 2 Height | 30.0 Cm |
| Package 2 Width | 30.0 Cm |
| Package 2 Length | 40.0 Cm |
| Package 2 Weight | 9.0 Kg |

## Offer Sustainability

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|---|---|
| Recyclability potential, in % | 49 |
| Total lifecycle Carbon footprint | 90 kg CO2 eq. |
| Carbon footprint of the manufacturing phase [A1 to A3] | 10.873320980286081 |
| Carbon footprint of the manufacturing phase [A1 to A3] | 11 kg CO2 eq. |
| Carbon footprint of the distribution phase [A4] | 0.4598123984982335 |
| Carbon footprint of the distribution phase [A4] | 0.5 kg CO2 eq. |
| Carbon footprint of the installation phase [A5] | 0.4097585395010464 |

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|---|---|
| Carbon footprint of the installation phase [A5] | 0.4 kg CO2 eq. |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 74.322 |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 74 kg CO2 eq. |
| Mercury free | Yes |
| Sustainable packaging | Yes |
| Carbon footprint of the end-of-life phase [C1 to C4] | 3.7052338781741825 |
| Carbon footprint of the end-of-life phase [C1 to C4] | 4 kg CO2 eq. |
| Environmental Disclosure | Product Environmental Profile |
| Total lifecycle Carbon footprint | 90 |
| Packaging made with recycled cardboard | Yes |
| Packaging without single use plastic | Yes |
| SCIP Number | 1b259a2c-3a3c-401a-acdd-f0837efd4018 |
| REACh Regulation | Reference contains Substances of Very High Concern above the threshold |
| EU RoHS Directive | Compliant By Exemption |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Lead and lead compounds, wh |
| Halogen-free status | Halogen free plastic parts product |
| PVC free | Yes |
| End of life manual availability | End Of Life Information |
| Take-back | No |
| WEEE Label | The product must be disposed on European Union markets following specific waste collection a |

## Contractual warranty

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| Warranty (in months) | 18 |

Product Life Status : Commercialised