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PHŒNIX CONTACT

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High-current terminal block, nom. voltage: 1000 V, nominal current: 192 A, number of connections: 6, number of positions: 3, connection method: Screw connection, Rated cross section: 70 mm², cross section: 16 mm² - 95 mm², mounting type: direct screw connection, color: gray

Your advantages

- · Reliable cable connection is ensured by three-point centering of the conductor in the prismatic sleeve base

- · Low contact resistance of the contact surface due to ribbing
- · Screw locking by means of spring-loaded elements in the clamping part

Commercial data

Item number	3076484
Packing unit	4 pc
Minimum order quantity	4 pc
Note	Made to order (non-returnable)
Sales key	****
Product key	BE1311
Catalog page	Page 191 (C-1-2019)
GTIN	4046356654067
Weight per piece (including packing)	472.275 g
Weight per piece (excluding packing)	472.275 g
Customs tariff number	85369010
Country of origin	CN



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Technical data

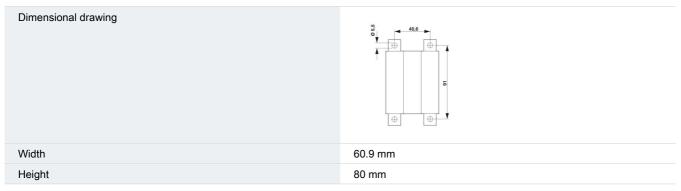
Product type High current terminal block Number of positions 3 Number of connections 6 Number of connections 1 Potentials 3 Insulation characteristics 3 Overvoltage category III Degree of pollution 3 Electrical properties 8 kV Rated surge voltage 8 kV Maximum power dissipation for nominal condition 6.27 W Connection sper level 6 Number of connections per level 6 Nominal cross section 70 mm² Screw thread M8 Tightening torque 8 10 Nm Stripping length 24 mm Internal cylindrical gage A11 Connection in acc. with standard IEC 6047-7-1 Conductor cross section figid 16 mm²	Product properties	
Number of connections 6 Number of rows 1 Potentials 3 Insulation characteristics 3 Overvoltage category III Degree of pollution 3 Etertical properties 8 kV Maximum power dissipation for nominal condition 6.27 W Overvoltage voltage 8 kV Maximum power dissipation for nominal condition 6.27 W Connection sper level 6 Nominal cross section 70 mm ^a Evert 1 above 1 below 1 5 Screw thread M8 Tightening torque 8 10 Nm Stripping length 24 mm Internal cylindrical gage A11 Conductor cross section rigid 16 mm ^a 95 mm ^a Cross section rigid 16 mm ^a 95 mm ^a Conductor cross section flexible 25 mm ^a	Product type	High current terminal block
Number of rows 1 Potentials 3 Insulation characteristics III Overvoltage category III Degree of pollution 3 Electrical properties 3 Rated surge voltage 8 kV Maximum power dissipation for nominal condition 6.27 W Contection data 6 Number of connections per level 6 Number of connections per level 6 Number of pollution 70 mm ^a Screw thread M8 Tightening torque 8 10 Nm Stripping length 24 mm Internal cylindrical gage 11 Connection in acc. with standard EG0947-7-1 Conductor cross section rigid 16 mm ^a 95 mm ^a Cross section rigid 16 mm ^a 95 mm ^a Conductor cross section rigid 25 mm ^a	Number of positions	3
Potentials 3 Insulation characteristics III Overvoltage category III Degree of pollution 3 Electrical properties 3 Rated surge voltage 8 kV Maximum power dissipation for nominal condition 6.27 W Connection data 6 Number of connections per level 6 Nominal cross section 70 mm ² Screw thread M8 Stripping length 24 mm Internal cylindrical gage A11 Connection in acc. with standard IEC 60947-7-1 Conductor cross section rigid 16 mm ²	Number of connections	6
Insulation characteristics III Overvoltage category III Degree of pollution 3 Electrical properties 8 kV Rated surge voltage 8 kV Maximum power dissipation for nominal condition 6.27 W Connection data 6 Number of connections per level 6 Nominal cross section 70 mm ² Screw thread M8 Stripping length 24 mm Internal cylindrical gage A11 Connection in acc. with standard IEC 60947-7-1 Conductor cross section rigid 16 mm ²	Number of rows	1
Overvoltage category III Degree of pollution 3 Evervoltage category 3 Evervoltage pollution 3 Evervoltage category 8 kV Rated surge voltage 8 kV Maximum power dissipation for nominal condition 6.27 W Vervoltage category 6 Number of connections per level 6 Nominal cross section 70 mm ² Screw thread M8 Screw thread 8 10 Nm Stripping length 24 mm Internal cylindrical gage A11 Connection in acc. with standard IEC 60947-7-1 Conductor cross section rigid 16 mm ² 95 mm ³ Cross section AWG 4 30 (converted acc. to IEC) Conductor cross section flexible (AWG] 3 20 (converted acc. to IEC) Conductor cross-section flexible (ferrule without plastic sleever) 16 mm ² 70 mm ²	Potentials	3
Overvoltage category III Degree of pollution 3 Evervoltage category 3 Evervoltage pollution 3 Evervoltage constructions 8 kV Maximum power dissipation for nominal condition 6.27 W Number of connections per level 6 Number of connections per level 6 Number of connections per level 810 Nm Screw thread M8 Tightening torque 810 Nm Stripping length 24 mm Internal cylindrical gage A11 Connection in acc. with standard IEC 60947-7-1 Conductor cross section rigid 16 mm²95 mm² Cross section AWG 430 (converted acc. to IEC) Conductor cross section flexible 25 mm²70 mm² Conductor cross section flexible (ferrule without plastic sleever) 16 mm²70 mm²	Insulation characteristics	
Degree of pollution 3 Electrical properties 8 kV Rated surge voltage 8 kV Maximum power dissipation for nominal condition 6.27 W Contection data Number of connections per level 6 Nominal cross section 70 mm² Screw thread M8 Stripping length 8 10 Nm Stripping length 24 mm Internal cylindrical gage A11 Connection in acc. with standard IEC 60947-7-1 Conductor cross section rigid 16 mm² 95 mm² Cross section AWG 4 3/0 (converted acc. to IEC) Conductor cross section flexible 25 mm² 70 mm² Conductor cross section flexible [AWG] 3 2/0 (converted acc. to IEC) Conductor cross section flexible [MWG] 3 2/0 (converted acc. to IEC) Conductor cross section flexible [ferrule without plastic sleeve) 16 mm² 70 mm²	Overvoltage category	Ш
Rated surge voltage8 kVMaximum power dissipation for nominal condition6.27 WConnection dataNumber of connections per level6Nominal cross section70 mm²Evel 1 above 1 below 1Screw threadM8Screw thread8 10 NmStripping length24 mmInternal cylindrical gageA11Connection in acc. with standardIEC 60947-7-1Conductor cross section rigid16 mm² 95 mm²Cross section AWG4 3/0 (converted acc. to IEC)Conductor cross section, flexible [AWG]3 2/0 (converted acc. to IEC)Conductor cross section flexible (ferrule without plastic sleeve)16 mm² 70 mm²		3
Rated surge voltage8 kVMaximum power dissipation for nominal condition6.27 WConnection dataNumber of connections per level6Nominal cross section70 mm²Evel 1 above 1 below 1Screw threadM8Screw thread8 10 NmStripping length24 mmInternal cylindrical gageA11Connection in acc. with standardIEC 60947-7-1Conductor cross section rigid16 mm² 95 mm²Cross section AWG4 3/0 (converted acc. to IEC)Conductor cross section flexible [AWG]3 2/0 (converted acc. to IEC)Conductor cross section flexible [AWG]3 2/0 (converted acc. to IEC)	Electrical properties	
Maximum power dissipation for nominal condition 6.27 W Mumber of connections per level Number of connections per level 6 Nominal cross section 70 mm ² Evel 1 above 1 below 1 70 mm ² Screw thread M8 Tightening torque 8 10 Nm Stripping length 24 mm Internal cylindrical gage A11 Connection in acc. with standard IEC 60947-7-1 Conductor cross section rigid 16 mm ² 95 mm ² Cross section AWG 4 3/0 (converted acc. to IEC) Conductor cross section, flexible [AWG] 3 2/0 (converted acc. to IEC) Conductor cross section flexible (ferrule without plastic sleeve) 16 mm ² 70 mm ²		8 kV
Number of connections per level 6 Nominal cross section 70 mm² Everl 1 above 1 below 1 70 mm² Screw thread M8 Tightening torque 8 10 Nm Stripping length 24 mm Internal cylindrical gage A11 Connection in acc. with standard IEC 60947-7-1 Conductor cross section rigid 16 mm² 95 mm² Conductor cross section flexible 25 mm² 70 mm² Conductor cross section flexible [AWG] 3 2/0 (converted acc. to IEC) Conductor cross section flexible (ferrule without plastic sleeve) 16 mm² 70 mm²		6.27 W
Nominal cross section70 mm²Interval 1 above 1 below 1Screw threadM8Tightening torque8 10 NmStripping length24 mmInternal cylindrical gageA11Connection in acc. with standardIEC 60947-7-1Conductor cross section rigid16 mm² 95 mm²Cross section AWG4 3/0 (converted acc. to IEC)Conductor cross section flexible [AWG]3 2/0 (converted acc. to IEC)Conductor cross section flexible [AWG]16 mm² 70 mm²		
Level 1 above 1 below 1Screw threadM8Tightening torque8 10 NmStripping length24 mmInternal cylindrical gageA11Connection in acc. with standardIEC 60947-7-1Conductor cross section rigid16 mm² 95 mm²Cross section AWG4 3/0 (converted acc. to IEC)Conductor cross section, flexible [AWG]3 2/0 (converted acc. to IEC)Conductor cross section flexible [ferrule without plastic sleeve)16 mm² 70 mm²	Number of connections per level	6
Screw threadM8Tightening torque8 10 NmStripping length24 mmInternal cylindrical gageA11Connection in acc. with standardIEC 60947-7-1Conductor cross section rigid16 mm² 95 mm²Cross section AWG4 3/0 (converted acc. to IEC)Conductor cross section, flexible [AWG]3 2/0 (converted acc. to IEC)Conductor cross-section flexible (ferrule without plastic sleeve)16 mm² 70 mm²	Nominal cross section	70 mm ²
Tightening torque8 10 NmStripping length24 mmInternal cylindrical gageA11Connection in acc. with standardIEC 60947-7-1Conductor cross section rigid16 mm² 95 mm²Cross section AWG4 3/0 (converted acc. to IEC)Conductor cross section flexible25 mm² 70 mm²Conductor cross section flexible (ferrule without plastic sleeve)16 mm² 70 mm²	Level 1 above 1 below 1	
Stripping length24 mmInternal cylindrical gageA11Connection in acc. with standardIEC 60947-7-1Conductor cross section rigid16 mm² 95 mm²Cross section AWG4 3/0 (converted acc. to IEC)Conductor cross section flexible25 mm² 70 mm²Conductor cross section flexible [AWG]3 2/0 (converted acc. to IEC)Conductor cross section flexible (ferrule without plastic sleeve)16 mm² 70 mm²	Screw thread	M8
Internal cylindrical gageA11Connection in acc. with standardIEC 60947-7-1Conductor cross section rigid16 mm² 95 mm²Cross section AWG4 3/0 (converted acc. to IEC)Conductor cross section flexible25 mm² 70 mm²Conductor cross section, flexible [AWG]3 2/0 (converted acc. to IEC)Conductor cross section flexible (ferrule without plastic sleeve)16 mm² 70 mm²	Tightening torque	8 10 Nm
Connection in acc. with standardIEC 60947-7-1Conductor cross section rigid16 mm² 95 mm²Cross section AWG4 3/0 (converted acc. to IEC)Conductor cross section flexible25 mm² 70 mm²Conductor cross section, flexible [AWG]3 2/0 (converted acc. to IEC)Conductor cross-section flexible (ferrule without plastic sleeve)16 mm² 70 mm²	Stripping length	24 mm
Conductor cross section rigid16 mm² 95 mm²Cross section AWG4 3/0 (converted acc. to IEC)Conductor cross section flexible25 mm² 70 mm²Conductor cross section, flexible [AWG]3 2/0 (converted acc. to IEC)Conductor cross-section flexible (ferrule without plastic sleeve)16 mm² 70 mm²	Internal cylindrical gage	A11
Cross section AWG4 3/0 (converted acc. to IEC)Conductor cross section flexible25 mm² 70 mm²Conductor cross section, flexible [AWG]3 2/0 (converted acc. to IEC)Conductor cross-section flexible (ferrule without plastic sleeve)16 mm² 70 mm²	Connection in acc. with standard	IEC 60947-7-1
Conductor cross section flexible25 mm² 70 mm²Conductor cross section, flexible [AWG]3 2/0 (converted acc. to IEC)Conductor cross-section flexible (ferrule without plastic sleeve)16 mm² 70 mm²	Conductor cross section rigid	16 mm² 95 mm²
Conductor cross section, flexible [AWG] 3 2/0 (converted acc. to IEC) Conductor cross-section flexible (ferrule without plastic sleeve) 16 mm ² 70 mm ²	Cross section AWG	4 3/0 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve) 16 mm ² 70 mm ²	Conductor cross section flexible	25 mm² 70 mm²
	Conductor cross section, flexible [AWG]	3 2/0 (converted acc. to IEC)
	Conductor cross-section flexible (ferrule without plastic sleeve)	16 mm² 70 mm²
Flexible conductor cross section (ferrule with plastic sleeve) 16 mm ² 70 mm ²	Flexible conductor cross section (ferrule with plastic sleeve)	16 mm² 70 mm²
2 conductors with same cross section, solid 16 mm ² 25 mm ²	2 conductors with same cross section, solid	16 mm² 25 mm²
2 conductors with same cross section, flexible 16 mm ² 25 mm ²	2 conductors with same cross section, flexible	16 mm² 25 mm²
2 conductors with same cross section, flexible, with ferrule 16 mm ² 25 mm ² without plastic sleeve		16 mm² 25 mm²
Nominal current 192 A	Nominal current	192 A
Maximum load current 192 A (in case of a 70 mm² conductor cross section, the maximum load current must not be exceeded by the total current of all connected conductors.)	Maximum load current	maximum load current must not be exceeded by the total current
Nominal voltage 1000 V	Nominal voltage	1000 V
Note Note: Product releases, connection cross sections and notes on connecting aluminum cables can be found in the download area.	Note	
Nominal cross section 70 mm ²	Nominal cross section	70 mm²



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Dimensions



Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94	V0
Insulating material group	1
Insulating material	PA
Static insulating material application in cold	-60 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	130 °C
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R23	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R26	HL 1 - HL 3
Calorimetric heat release NFPA 130 (ASTM E 1354)	28 MJ/kg
Surface flammability NFPA 130 (ASTM E 162)	passed
Specific optical density of smoke NFPA 130 (ASTM E 662)	passed
Smoke gas toxicity NFPA 130 (SMP 800C)	passed

Electrical tests

Surge voltage test

Test voltage setpoint	9.8 kV
Result	Test passed
Temperature-rise test	
Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 70 mm ²	8.4 kA
Result	Test passed
Power-frequency withstand voltage	
Test voltage setpoint	2.2 kV
Result	Test passed

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Mechanical properties

Open side panel	No
chanical tests	
lechanical strength	
Result	Test passed
ttachment on the carrier	
DIN rail/fixing support	NS 32/NS 35
Test force setpoint	10 N
Result	Test passed
est for conductor damage and slackening	
Rotation speed	10 (+/- 2) rpm
Revolutions	135
Conductor cross section/weight	16 mm² / 2.9 kg
e e e e e e e e e e e e e e e e e e e	70 mm²/10.4 kg
	95 mm²/14 kg
Result	Test passed
leedle-flame test	30 c
Vironmental and real-life conditions leedle-flame test Time of exposure	30 s
leedle-flame test	30 s Test passed
leedle-flame test Time of exposure	
leedle-flame test Time of exposure Result	
leedle-flame test Time of exposure Result Dscillation/broadband noise	Test passed
leedle-flame test Time of exposure Result Dscillation/broadband noise Specification	Test passed DIN EN 50155 (VDE 0115-200):2022-06
leedle-flame test Time of exposure Result Dscillation/broadband noise Specification Spectrum	Test passed DIN EN 50155 (VDE 0115-200):2022-06 Long life test category 2, bogie-mounted
leedle-flame test Time of exposure Result Scillation/broadband noise Specification Spectrum Frequency ASD level Acceleration	Test passed DIN EN 50155 (VDE 0115-200):2022-06 Long life test category 2, bogie-mounted $f_1 = 5$ Hz to $f_2 = 250$ Hz 6.12 (m/s ²) ² /Hz $3.12g$
leedle-flame test Time of exposure Result Oscillation/broadband noise Specification Spectrum Frequency ASD level Acceleration Test duration per axis	Test passed DIN EN 50155 (VDE 0115-200):2022-06 Long life test category 2, bogie-mounted $f_1 = 5$ Hz to $f_2 = 250$ Hz 6.12 (m/s ²) ² /Hz $3.12g$ 5 h
leedle-flame test Time of exposure Result Scillation/broadband noise Specification Spectrum Frequency ASD level Acceleration	Test passed DIN EN 50155 (VDE 0115-200):2022-06 Long life test category 2, bogie-mounted $f_1 = 5$ Hz to $f_2 = 250$ Hz 6.12 (m/s ²) ² /Hz $3.12g$ 5 h X-, Y- and Z-axis
leedle-flame test Time of exposure Result Oscillation/broadband noise Specification Spectrum Frequency ASD level Acceleration Test duration per axis	Test passed DIN EN 50155 (VDE 0115-200):2022-06 Long life test category 2, bogie-mounted $f_1 = 5$ Hz to $f_2 = 250$ Hz 6.12 (m/s ²) ² /Hz $3.12g$ 5 h
leedle-flame test Time of exposure Result Socillation/broadband noise Specification Spectrum Frequency ASD level Acceleration Test duration per axis Test directions	Test passed DIN EN 50155 (VDE 0115-200):2022-06 Long life test category 2, bogie-mounted $f_1 = 5$ Hz to $f_2 = 250$ Hz 6.12 (m/s ²) ² /Hz $3.12g$ 5 h X-, Y- and Z-axis
leedle-flame test Time of exposure Result Scillation/broadband noise Specification Spectrum Frequency ASD level Acceleration Test duration per axis Test directions Result	Test passed DIN EN 50155 (VDE 0115-200):2022-06 Long life test category 2, bogie-mounted $f_1 = 5$ Hz to $f_2 = 250$ Hz 6.12 (m/s ²) ² /Hz $3.12g$ 5 h X-, Y- and Z-axis
leedle-flame test Time of exposure Result Result Specification/broadband noise Specification Spectrum Frequency ASD level Acceleration Test duration per axis Test directions Result	Test passed DIN EN 50155 (VDE 0115-200):2022-06 Long life test category 2, bogie-mounted $f_1 = 5$ Hz to $f_2 = 250$ Hz 6.12 (m/s ²) ² /Hz $3.12g$ 5 h X-, Y- and Z-axis Test passed
leedle-flame test Time of exposure Result Socillation/broadband noise Specification Specification Spectrum Frequency ASD level Acceleration Test duration per axis Test directions Result Specification	Test passed DIN EN 50155 (VDE 0115-200):2022-06 Long life test category 2, bogie-mounted f ₁ = 5 Hz to f ₂ = 250 Hz 6.12 (m/s ²) ² /Hz 3.12g 5 h X-, Y- and Z-axis Test passed DIN EN 50155 (VDE 0115-200):2022-06
leedle-flame test Time of exposure Result Secillation/broadband noise Specification Specification Spectrum Frequency ASD level ACceleration Test duration per axis Test directions Result Specification Pulse shape	Test passed DIN EN 50155 (VDE 0115-200):2022-06 Long life test category 2, bogie-mounted f ₁ = 5 Hz to f ₂ = 250 Hz 6.12 (m/s ²) ² /Hz 3.12g 5 h X-, Y- and Z-axis Test passed DIN EN 50155 (VDE 0115-200):2022-06 Half-sine
leedle-flame test Time of exposure Result Socillation/broadband noise Specification Specification Spectrum Frequency ASD level Acceleration Test duration per axis Test directions Result Specification Pulse shape Acceleration	Test passed DIN EN 50155 (VDE 0115-200):2022-06 Long life test category 2, bogie-mounted f ₁ = 5 Hz to f ₂ = 250 Hz 6.12 (m/s²)²/Hz 3.12g 5 h X-, Y- and Z-axis Test passed DIN EN 50155 (VDE 0115-200):2022-06 Half-sine 5g
leedle-flame test Time of exposure Result Scillation/broadband noise Specification Specification Spectrum Frequency ASD level ACceleration Test duration per axis Test directions Result Specification Pulse shape Acceleration Shock duration	Test passed DIN EN 50155 (VDE 0115-200):2022-06 Long life test category 2, bogie-mounted f ₁ = 5 Hz to f ₂ = 250 Hz 6.12 (m/s²)²/Hz 3.12g 5 h X-, Y- and Z-axis Test passed DIN EN 50155 (VDE 0115-200):2022-06 Half-sine 5g 30 ms
leedle-flame test Time of exposure Result Specification/broadband noise Specification Specification Frequency ASD level Acceleration Test duration per axis Test directions Result Specification Pulse shape Acceleration Shock duration Number of shocks per direction	Test passed DIN EN 50155 (VDE 0115-200):2022-06 Long life test category 2, bogie-mounted $f_1 = 5$ Hz to $f_2 = 250$ Hz 6.12 (m/s ²) ² /Hz $3.12g$ 5 h X-, Y- and Z-axis Test passed DIN EN 50155 (VDE 0115-200):2022-06 Half-sine $5g$ 30 ms 3



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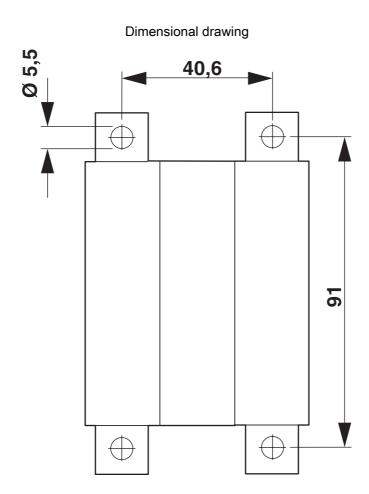
-25 °C 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C)
-5 °C 70 °C
-5 °C 70 °C
30 % 70 %
IEC 60947-7-1
IEC 60947-7-1



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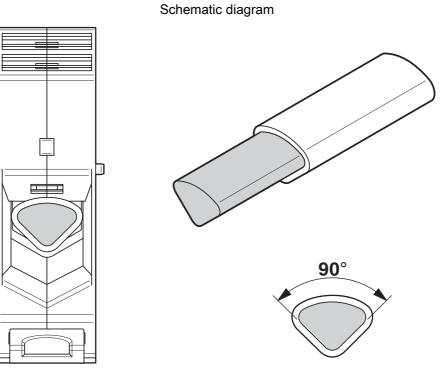
Drawings





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Connecting aluminum cables. Further notes can be found in the download area

Circuit diagram



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Classifications

ECLASS

	ECLASS-11.0	27141120	
E	ГIМ		
	ETIM 8.0	EC000897	
UNSPSC			
	UNSPSC 21.0	39121400	

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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