

3273502

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Distribution block, Basic terminal block with supply, nom. voltage: 450 V, nominal current: 24 A, number of connections: 13, connection method: Push-in connection, Load contact, cross section: 0.14 mm² - 4 mm², Push-in connection, Line contact, Rated cross section: 6 mm², cross section: 0.5 mm² - 10 mm², mounting type: adhesive, color: black/yellow

Your advantages

- Space savings of up to 50 % on the DIN rail, thanks to transverse mounting
- · Clear wiring, thanks to eleven different color variants
- Time savings of up to 80 %, thanks to ready-to-mount blocks without manual bridging
- · Time-saving conductor connection, thanks to tool-free Push-in direct connection technology
- · Flexible use, thanks to DIN rail mounting, direct mounting or adhesive mounting

Commercial data

Item number	3273502
Packing unit	8 pc
Minimum order quantity	8 pc
Sales key	BE09
Product key	BEA123
Catalog page	Page 444 (C-1-2019)
GTIN	4055626393285
Weight per piece (including packing)	30.863 g
Weight per piece (excluding packing)	30.25 g
Customs tariff number	85369010
Country of origin	PL



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Technical data

Notes

General	the blocks can be bridged with one another via the conductor shaft, for corresponding plug-in bridges, see accessories
General	
Note	The maximum load current of a single clamping unit must not be exceeded.
	For power distribution applications, IEC 60364-4-43.2008; modified + corrigendum Okt. 2008 (DIN VDE 0100-430:2010-10) section 433.2 ff must be observed!

Product properties

Product type	Distributor terminal block
Number of connections	13
Number of rows	1
Potentials	1
Insulation characteristics	
Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	6 kV
Maximum power dissipation for nominal condition	0.77 W

Connection data

Service Entrance	yes
Number of connections per level	13
Nominal cross section	2.5 mm²
Rated cross section AWG	14

Load contact

Stripping length	8 mm 10 mm
Internal cylindrical gage	A3
Connection in acc. with standard	IEC 60998-2-2
Conductor cross section rigid	0.14 mm² 4 mm²
Cross section AWG	26 12 (converted acc. to IEC)
Conductor cross section flexible	0.14 mm² 2.5 mm²
Conductor cross section, flexible [AWG]	26 14 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.14 mm² 2.5 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.14 mm² 2.5 mm²
Nominal current	24 A
Maximum load current	32 A (with 4 mm² conductor cross section)
Maximum total current	57 A (with 10 mm² conductor cross section)



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Conductor cross section rigid Conductor cross section, rigid [AWG] Conductor cross-section flexible (ferrule without plastic sleeve) Flexible conductor cross section (ferrule with plastic sleeve) O.34 mm² 2.5 mm² Flexible conductor cross section (ferrule with plastic sleeve) O.34 mm² 2.5 mm² O.34 mm² 2.5 mm² In econtact Connection cross sections directly pluggable Conductor cross section rigid Conductor cross-section flexible (ferrule without plastic sleeve) Flexible conductor cross section (ferrule with plastic sleeve) I mm² 6 mm² Flexible conductor cross section (ferrule with plastic sleeve) Width 41 mm Height 28.6 mm Depth	Nominal voltage	450 V	
Stripping length 10 mm 12 mm Connection in acc. with standard 1EC 60988-2-2 Conductor cross section rigid 0.5 mm² 10 mm² Cross section AWG 20 8 (converted acc. to IEC) Conductor cross section flexible 0.5 mm² 10 mm² Conductor cross section flexible (AWG) 20 10 (converted acc. to IEC) Conductor cross section flexible (Farule without plastic sleeve) 0.5 mm² 6 mm² Conductor cross section flexible (Farule with plastic sleeve) 0.5 mm² 6 mm² Conductor cross-section (ferrule with plastic sleeve) 0.5 mm² 6 mm² Conductor cross-section (ferrule with plastic sleeve) 0.5 mm² 6 mm² Conductor cross-section (ferrule with plastic sleeve) 0.5 mm² 1.5 mm² Conductor cross-section, with TWIN ferrule and plastic sleeve) 0.5 mm² 1.5 mm² Conductor cross-section with the same cross-section, flexible, with TWIN ferrule with plastic sleeve 0.5 mm² 1.5 mm² Conductor cross-section flexible (Parule without plastic sleeve) 0.5 mm² 1.5 mm² Conductor cross-section cross-section of mm² Conductor cross-section rigid 0.34 mm² 4 mm² Conductor cross-section rigid 0.34 mm² 4 mm² Conductor cross-section flexible (ferrule without plastic sleeve) 0.34 mm² 2.5 mm² Flexible conductor cross-section (ferrule with plastic sleeve) 0.34 mm² 2.5 mm² Flexible conductor cross-section flexible (ferrule without plastic sleeve) 0.34 mm² 2.5 mm² Flexible conductor cross-section flexible (ferrule with plastic sleeve) 0.34 mm² 2.5 mm² Flexible conductor cross-section flexible (ferrule with plastic sleeve) 0.34 mm² 2.5 mm² Flexible conductor cross-section flexible (ferrule with plastic sleeve) 0.34 mm² 2.5 mm² Flexible conductor cross-section flexible (ferrule with plastic sleeve) 0.34 mm² 2.5 mm² Flexible conductor cross-section flexible (ferrule with plastic sleeve) 0.34 mm² 2.5 mm² Flexible conductor cross-section flexible (provide with plastic sleeve) 0.34 mm² 2.5 mm² Flexible conductor cross-section flexible (provide with plastic sleeve) 0.34 mm² 2.5 mm² Flexible c	ine contact		
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Cross section AWG Conductor cross section flexible [AWG] Conductor cross section flexible (Errule without plastic sleeve) Conductor cross section flexible (2 conductors with the same cross-section flexible (2 conductors with the same cross-section flexible (2 conductors with the same cross-section with TWIN ferrule and plastic sleeve) Conductor until TWIN ferrule and plastic sleeve) Conductor with the same cross-section, flexible, with TWIN ferrule with plastic sleeve) Conductor with the same cross-section, flexible, with TWIN ferrule with plastic sleeve) Conductor with the same cross-section, flexible, with TWIN ferrule with plastic sleeve) Nominal current 41 A (with 6 mm² conductor cross section) Maximum load current 57 A (with 10 mm² conductor cross section) Nominal cross-section and contact Connection cross sections directly pluggable Conductor cross-section rigid Conductor cross-section flexible (ferrule without plastic sleeve) Flexible conductor cross-section flexible (ferrule with plastic sleeve) Conductor cross-section flexible (ferrule with plastic sleeve) 1 mm² 25 mm² 1 mm² 25 mm² 1 mm² 26 mm² 1 mm² 6 mm² 1 mm²	Connection in acc. with standard	IEC 60998-2-2	
Conductor cross section flexible 0.5 mm² 10 mm² Conductor cross section, flexible [AWG] 20 10 (converted acc. to IEC) Conductor cross-section flexible (ferrule with plastic sleeve) 0.5 mm² 6 mm² Flexible conductor cross section flexible (2 conductors with the same cross-section, with TWIN ferrule and plastic sleeve) 0.5 mm² 1.5 mm² Conductor cross-section, with TWIN ferrule and plastic sleeve) 2 conductors with the same cross-section, with TWIN ferrule and plastic sleeve 2 conductors with the same cross-section, flexible, with TWIN ferrule with plastic sleeve 3 conductor cross-section flexible (2 conductors with the same cross-section) Maximum load current 41 A (with 6 mm² conductor cross section) Maximum load current 57 A (with 10 mm² conductor cross section) Mominal cross-section flexible (2 conductor cross-section flexible (3 conductor cross-section flexible (4 con	Conductor cross section rigid	0.5 mm² 10 mm²	
Conductor cross section, flexible [AWG] Conductor cross-section flexible (ferrule with plastic sleeve) Conductor cross-section flexible (ferrule with plastic sleeve) Conductor cross-section flexible (2 conductors with the same cross-section, with TWIN ferrule and plastic sleeve) Conductor with the same cross section, flexible, with TWIN ferrule and plastic sleeve) Conductors with the same cross section, flexible, with TWIN ferrule and plastic sleeve) Conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve Nominal current 41 A (with 6 mm² conductor cross section) Maximum load current 57 A (with 10 mm² conductor cross section) Maximum load current Nominal cross section 6 mm² Conductor cross section rigid Conductor cross section rigid [AWG] Conductor cross section flexible (ferrule without plastic sleeve) Plexible conductor cross section flexible (ferrule with plastic sleeve) Conductor cross section figid [AWG] Conductor cross section flexible (ferrule with plastic sleeve) Texible conductor cross section figid Conductor cross section flexible (ferrule with plastic sleeve) The without cross section flexible (ferrule with plastic sleeve) The without cross section flexible (ferrule with plastic sleeve) The without cross section flexible (ferrule with plastic sleeve) The without cross section flexible (ferrule with plastic sleeve) The without cross section flexible (ferrule with plastic sleeve) The without cross section flexible (ferrule with plastic sleeve) The maximum flexible (ferrule with plastic sleeve) The maxi	Cross section AWG	20 8 (converted acc. to IEC)	
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Flexible conductor cross section (ferrule with plastic sleeve) Conductor cross-section flexible (2 conductors with the same cross-section, with TWIN ferrule and plastic sleeve) 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve) 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve Nominal current 41 A (with 6 mm² conductor cross section) Maximum load current 57 A (with 10 mm² conductor cross section) Maximum load current Onductor cross section 6 mm² Conductor cross section rigid 0.34 mm² 4 mm² Conductor cross section, rigid [AWG] 24 12 (converted acc. to IEC) Conductor cross-section flexible (ferrule without plastic sleeve) 0.34 mm² 2.5 mm² Flexible conductor cross section flexible (ferrule with plastic sleeve) 1 mm² 2.5 mm² In contact Connection cross section directly pluggable Conductor cross-section flexible (ferrule without plastic sleeve) 1 mm² 10 mm² Conductor cross-section flexible (ferrule without plastic sleeve) 1 mm² 6 mm² Height 28.6 mm 22.7 mm terrial specifications Color black/yellow Flammability rating according to UL 94 Insulating material group Insulating material group Insulating material application in cold Temperature index of insulation material (DIN EN 60216-1 (VDE 1300 °C C) Fire protection for rail vehicles (DIN EN 45545-2) R22 H. 1 - H. 3	Conductor cross section, flexible [AWG]	20 10 (converted acc. to IEC)	
Conductor cross-section flexible (2 conductors with the same cross-section, with TWIN ferrule and plastic sleeve) 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve) Nominal current 41 A (with 6 mm² conductor cross section) Maximum load current 57 A (with 10 mm² conductor cross section) Maximum load current 57 A (with 10 mm² conductor cross section) 6 mm² Conductor cross section rigid Conductor cross section rigid [AWG] Conductor cross section, rigid [AWG] Conductor cross-section flexible (ferrule without plastic sleeve) Flexible conductor cross sections directly pluggable Conductor cross-section flexible (ferrule with plastic sleeve) 1 mm² 25 mm² 1 mm² 25 mm² 1 mm² 25 mm² 1 mm² 6 mm² Conductor cross-section flexible (ferrule without plastic sleeve) 1 mm² 6 mm² 1 mm² 6 mm² Width 41 mm Height 28.6 mm Depth 1 errial specifications Color Flammability rating according to UL 94 Insulating material group Insulating material application in cold Temperature index of insulation material (DIN EN 60216-1 (VDE 3034-21)) Relative insulation material temperature index (Elec., UL 746 B) Fire protection for rail vehicles (DIN EN 45545-2) R22 HL 1 - HL 3	Conductor cross-section flexible (ferrule without plastic sleeve)	0.5 mm² 6 mm²	
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Maximum load current Nominal cross section 6 mm² coad contact Connection cross sections directly pluggable Conductor cross section rigid Conductor cross section figid Q34 mm² 4 mm² Conductor cross section figid Q4 12 (converted acc. to IEC) Conductor cross section flexible (ferrule without plastic sleeve) Q34 mm² 2.5 mm² Flexible conductor cross section (ferrule with plastic sleeve) Q34 mm² 2.5 mm² Flexible conductor cross section figid 1 mm² 10 mm² Conductor cross section figid 1 mm² 10 mm² Conductor cross section figid 1 mm² 6 mm² Flexible conductor cross section (ferrule without plastic sleeve) 1 mm² 6 mm² Flexible conductor cross section (ferrule with plastic sleeve) 1 mm² 6 mm² Flexible conductor cross section (ferrule with plastic sleeve) 1 mm² 6 mm² Tensions Width 41 mm 41 mm 41 mm Legith 28.6 mm 22.7 mm terial specifications Color black/yellow Flammability rating according to UL 94 V0 Insulating material group I Insulating material group I Insulating material application in cold -60 °C Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) 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		0.5 mm ² 1.5 mm ²	
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conductor cross section rigid 0.34 mm² 4 mm² Conductor cross section, rigid [AWG] 24 12 (converted acc. to IEC) Conductor cross section, rigid [AWG] 24 12 (converted acc. to IEC) Conductor cross section flexible (ferrule without plastic sleeve) 0.34 mm² 2.5 mm² Flexible conductor cross section (ferrule with plastic sleeve) 0.34 mm² 2.5 mm² Ine contact Connection cross sections directly pluggable Conductor cross section rigid 1 mm² 10 mm² Conductor cross section flexible (ferrule without plastic sleeve) 1 mm² 6 mm² Flexible conductor cross section (ferrule with plastic sleeve) 1 mm² 6 mm² Width 41 mm Height 28.6 mm Depth 22.7 mm terrial specifications Color black/yellow Flammability rating according to UL 94 V0 Insulating material group 1 Insulating material group 1 Insulating material polication in cold -60 °C Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) 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	Maximum load current	57 A (with 10 mm² conductor cross section)	
Conductor cross section rigid Conductor cross section, rigid [AWG] Conductor cross section flexible (ferrule without plastic sleeve) Flexible conductor cross section (ferrule with plastic sleeve) Conductor cross section section (ferrule with plastic sleeve) Ine contact Connection cross sections directly pluggable Conductor cross section rigid Conductor cross section flexible (ferrule without plastic sleeve) I mm² 10 mm² Conductor cross-section flexible (ferrule without plastic sleeve) I mm² 6 mm² Flexible conductor cross section (ferrule with plastic sleeve) I mm² 6 mm² Width 41 mm Height 28.6 mm Depth 22.7 mm terial specifications Color black/yellow Flammability rating according to UL 94 V0 Insulating material group I unsulating material proup I lunsulating material proup I static insulating material application in cold -60 °C Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Relative insulation material temperature index (Elec., UL 746 B) Fire protection for rail vehicles (DIN EN 45545-2) R22 HL 1 - HL 3	Nominal cross section	6 mm²	
Conductor cross section, rigid [AWG] Conductor cross section flexible (ferrule without plastic sleeve) Flexible conductor cross section (ferrule with plastic sleeve) Flexible conductor cross section (ferrule with plastic sleeve) Conductor cross section rigid Conductor cross section flexible (ferrule without plastic sleeve) Conductor cross section flexible (ferrule without plastic sleeve) Flexible conductor cross section (ferrule with plastic sleeve) Flexible conductor cross section (ferrule with plastic sleeve) Number of memory Number o	oad contact Connection cross sections directly pluggable		
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Conductor cross section rigid Conductor cross-section flexible (ferrule without plastic sleeve) Flexible conductor cross section (ferrule with plastic sleeve) I mm² 6 mm² I mm² 6 mm	Flexible conductor cross section (ferrule with plastic sleeve)	0.34 mm² 2.5 mm²	
Conductor cross section rigid Conductor cross-section flexible (ferrule without plastic sleeve) Flexible conductor cross section (ferrule with plastic sleeve) I mm² 6 mm² I mm² 6 mm	ine contact Connection cross sections directly pluggable		
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Midth 41 mm Height 28.6 mm Depth 22.7 mm terial specifications Color black/yellow Flammability rating according to UL 94 Insulating material group Insulating material group Insulating material application in cold -60 °C Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) 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	Conductor cross-section flexible (ferrule without plastic sleeve)	1 mm² 6 mm²	
Width 41 mm Height 28.6 mm Depth 22.7 mm terial specifications Color black/yellow Flammability rating according to UL 94 V0 Insulating material group I Insulating material group I Static insulating material application in cold -60 °C Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) 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	Flexible conductor cross section (ferrule with plastic sleeve)	1 mm² 6 mm²	
Height 28.6 mm Depth 22.7 mm terial specifications Color black/yellow Flammability rating according to UL 94 V0 Insulating material group I Insulating material PA Static insulating material application in cold -60 °C Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) 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	nensions		
Depth 22.7 mm terial specifications Color black/yellow Flammability rating according to UL 94 V0 Insulating material group I Insulating material PA Static insulating material application in cold -60 °C Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) 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	Width	41 mm	
terial specifications Color black/yellow Flammability rating according to UL 94 V0 Insulating material group I Insulating material PA Static insulating material application in cold -60 °C Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) 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	Height	28.6 mm	
Color Flammability rating according to UL 94 V0 Insulating material group Insulating material PA Static insulating material application in cold Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Relative insulation material temperature index (Elec., UL 746 B) Fire protection for rail vehicles (DIN EN 45545-2) R22 black/yellow V0 PA 130°C 130°C	Depth	22.7 mm	
Flammability rating according to UL 94 Insulating material group Insulating material PA Static insulating material application in cold Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Relative insulation material temperature index (Elec., UL 746 B) Fire protection for rail vehicles (DIN EN 45545-2) R22 V0 PA 130 °C 130 °C HL 1 - HL 3	terial specifications		
Flammability rating according to UL 94 Insulating material group Insulating material PA Static insulating material application in cold Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Relative insulation material temperature index (Elec., UL 746 B) Fire protection for rail vehicles (DIN EN 45545-2) R22 V0 PA 130 °C 130 °C HL 1 - HL 3	Color	black/yellow	
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Fire protection for rail vehicles (DIN EN 45545-2) R22 HL 1 - HL 3	Temperature index of insulation material (DIN EN 60216-1 (VDE	130 °C	
	Relative insulation material temperature index (Elec., UL 746 B)	130 °C	
Fire protection for rail vehicles (DIN EN 45545-2) R23 HL 1 - HL 3	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	



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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

Mechanical properties

Mechanical data

Open side panel	No
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Mechanical tests

Attachment on the carrier

DIN rail/fixing support	NS 35/NS 15
Result	Test passed
Note	When aligning several blocks, it is recommended to either place a DIN rail adapter underneath the connection point or a flange element between the blocks.
	For versions with 6 or 7 connections, it is enough to place one DIN rail adapter centrally per block and place flange elements after every other block.
	When using the DIN rail adapter PTFIX-NS35, an aligned block must not protrude by more than a half.

Environmental and real-life conditions

Needle-flame test

Time of exposure	30 s	
Result	Test passed	
Oscillation/broadband noise		
Specification	DIN EN 50155 (VDE 0115-200):2008-03	
Spectrum	Service life test category 2, bogie-mounted	

Frequency	$f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$
ASD level	6.12 (m/s²)²/Hz

Acceleration	3.12g
Test duration per axis	5 h

Test directions	X-, Y- and Z-axis
Result	Test passed

Shocks

Specification	DIN EN 50155 (VDE 0115-200):2008-03
Pulse shape	Half-sine
Acceleration	30g
Shock duration	18 ms
Number of shocks per direction	3



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Test directions	X-, Y- and Z-axis (pos. and neg.)
Result	Test passed
Ambient conditions	
Ambient temperature (operation)	-35 °C 110 °C (Operating temperature range incl. self-heating for max. short-term operating temperature, see RTI Elec.)
Ambient temperature (storage/transport)	-25 °C 60 °C (for a short time, no longer than 24 h, -60°C to +70°C)
Ambient temperature (assembly)	-5 °C 70 °C
Ambient temperature (actuation)	-5 °C 70 °C
Permissible humidity (operation)	20 % 90 %
Permissible humidity (storage/transport)	30 % 70 %
andards and regulations	
Connection in acc. with standard	IEC 60998-2-2
	IEC 60998-2-2
unting	
Mounting type	adhesive



3273502

https://www.phoenixcontact.com/us/products/3273502

Classifications

ECLASS

	ECLASS-11.0	27141120			
	ECLASS-13.0	27250118			
ETIM					
	ETIM 9.0	EC000897			
UNSPSC					
	UNSPSC 21.0	39121400			

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Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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