

# **DATA SHEET**

# miniature circuit-breakers DLS 6i K32-1

for industrial facilities, K characteristics, 10 kA Article number 09916566





#### **Function**

The task of miniature circuit breakers is to automatically disconnect circuits in order to protect lines and connected devices. After disconnection, they can be manually reactivated without the fuse sets having to be replaced, for example. Each of our miniature circuit breakers is equipped with a trip-free mechanism, which guarantees safe deactivation even if, for example, a switching knob is mechanically blocked. A key requirement in DIN VDE 0100 is to protect cables, lines and installation devices from overload and shortcircuit. This can be achieved using miniature circuit-breaker (MCBs). In industrial installations and also in commercial buildings, they often take on additional protection of equipment and devices where there are usually stricter requirements than when used in residential buildings. Miniature circuit-breakers utilise both the magnetic and heat effect of the electrical current. If the current jumps to a value that is too high when a short-circuit occurs, the MCB interrupts the circuit using the magnetic field of an energised coil. The heat that develops when there is continuous overload causes the bimetal to warp, which trips the breaker. The DLS 6 family of miniature circuit-breakers, characterised by a large selection of different types for broad application fields, are available for residential and purpose-built facilities, as well as for industrial applications. The compact design provides lots of space for wiring and large clamping area, as well as the option of using conventional wiring rails for easy processing. The variants also have a large, folding label window and a clearly labelled display for the operating status. A number of additional devices such as under-voltage and operating current trip, and auxiliary/fault sensor switches, render possible general-purpose use of the miniature circuit-breakers. Its high rated switching capacity of 10 kA means the DLS 6i variant is particularly suited to usage in industrial systems for example. Also, the large selection of rated currents and tripping characteristics enable the miniature circuit-breaker to be used in a diverse range of applications. Switches with characteristic K are optimised for fuseprotecting power circuits (motor and transformer load circuits) with high switch-on currents.

#### Features

rated switching capacity 10 kA, screw terminals with strain-relief clamps with wide terminal cross-section range for rail and line wiring on both connection sides, special quick fastening for removal of multiple miniature circuit-breakers from the bottom or top interconnection, large, folding label window for a secure hold and protection of the label, use of conventional wiring rails, ON/OFF switch position indicator on the switch toggle, accessories retro-fittable on the right, labelling software free of charge

#### Mounting

quick fastening to mounting rail, any installation position

### **Applications**

suitable for use in power supplies for industrial facilities and purpose-built buildings or buildings for commercial use

#### Accessories

terminal caps KA, software DBS, restart locks DEASS, auxiliary switches DHi, trip-indicating auxiliary contact DHi-S, operating current trip DASA, documentation

### Technical Data

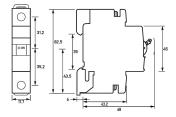
Technical Data	DLS 6i K <sub>32-1</sub>
Series	DLS 6i
Number of poles	1
Tripping characteristic	K
Supply side	left or right
Adjustment range of overload	1.05 1.2
tripping	
Adjustment range of short-circuit	8 12
tripping	

Tripping factor over frequency band  Test current factor tripping electromagnetic  Test current factor tripping electromagnetic  Test current multiplier, trip,  1.2  Test current multiplier, trip,  1.2  Test current multiplier, trip,  1.2  Test current factor retaining electromagnetic  8  Reference temperature thermal 2.0°C  Test current factor retaining electromagnetic  1.05  Test current factor retaining electromagnetic  8  Reference temperature thermal 2.0°C  Test current factor retaining electromagnetic  1.05  Test current factor retaining electromagnetic electromag	Technical Data	DLS 6i K <sub>32</sub> -1
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thermal Reference temperature thermal release Isolation class C at 250 V AC; B at 460 V AC Number 1 Specification Isolation class Isolation (AC) Rated voltage (AC) Rated voltage (AC) Rated voltage (AC) Rated voltage (DC) Rated current (AC) Rated short-circuit current Isolation voltage Rated insulation voltage Rated voltage insulation voltage Rated insulation voltage Rated insulation voltage Rated voltage insulation voltage Rated insulation voltage Rated voltage insulation voltage Rated insulation voltage Rated voltage insulation voltage Rated insulat		8
release   solation class   Cat 250 V AC, B at 4,00 V AC		1.05
Number 1 Specification   load disconnect contact   Rated voltage (AC)   230 V, 400 V   Rated voltage (DC)   60 V   Rated short-circuit current   10 kA   Rated insulation voltage   2 kV   Rated short-circuit current   2.9 W   Rated final pulse withstand voltage   4 kV   Rated insulation voltage   3 kV   Rated final pulse withstand voltage   4 kV   Rated final pulse withstand voltage   3 kV   Rated final pulse withstand voltage   4 kV   Rated short-circuit backup-fuse SCPD   2-5 A   Rated voltage (ass pulse of Pulse Voltage Rated Voltage Rated Voltage Rated Voltage Rated Voltage Rated Voltage Rated Rated Voltage Rated Rat		20 °C
Ioad circuit   Specification   Ioad disconnect contact     Rated voltage (AC)	Isolation class	C at 250 V AC; B at 400 V AC
Specification load disconnect contact Rated voltage (AC) 230 V, 400 V Rated current (AC) 32 A Rated short-circuit current 10 kA Rated insulation voltage 2 kV Rated frequency 50 Hz (16.67 Hz 60 Hz) Current haat loss per current 2.9 W Path of the short-circuit town of the short-circuit backup-fuse SCPD 125 A Back-up fuse type 3 gL, 9G Back-up fuse type 3 gL, 9G Back-up fuse (textual) Safety fuse as per DIN EN 6636 Overvoltage class III  Protection against direct contact DGUV V2, VDE 6660-514, finger and back-of-hand proof Connection C1 Maximum 10 conductors per terminal Consessection solid 1wire: 0.5 mm² 25 mm² Cross section solid 1wire: 1.5 mm² 25 mm² Thickness busbar cable lug (combined conductors) Thickness busbar cable lug (combined conductors) Combined conductors per terminal swith strain-relief clamp bottom (load circuit) Protection against direct contact 2 ye max: 2.5 mm² Thickness busbar cable lug (combined conductors) Cross section stranded 1wire: 1.5 mm² 25 mm² Thickness busbar cable lug (combined conductors) Cross section substar (busbar / busbar for k combined conductors, max) Cross section (busbar / busbar for k combined conductors, max) Cross section of 2 Maximum 10 pushed for conductors per terminal 1wire: 0.5 mm² 35 mm² Connecting capacity flexible 1wire: 1.5 mm² 25 mm² 35 mm² Connecting capacity flexible 1wire: 2.5 mm² 35 mm² Connecting capacity flexible 1wire: 1.5 mm² 35 mm² Cross section flexible with ferrule 0.5 mm² 35 mm² Cross section flexible with ferrule 0.5 mm² 35 mm² Cross section flexible with ferrule 0.5 mm² 35 mm² Cross section flexible with ferrule 0.5 mm² 35 mm² Cross section flexible with ferrule 0.5 mm² 35 mm² Cross section flexible with ferrule 0.5 mm² 35 mm²	Number	1
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Rated current (AC) Rated short-circuit current 10 kA Rated insulation voltage Rated frequency So Hz (16.67 Hz 60 Hz) Current heat loss per current path Short-circuit backup-fuse SCPD 125 A Back-up fuse type Back-up fuse type Back-up fuse (textual) Safety fuse as per DIN EN 0636 Overvoltage class III  screw terminals with strain-relief clamp top (load circuit) Protection against direct contact DGUV V2, VDE 0660-514, finger and back-of-hand proof Connection C3 Maximum number of conductors per terminal Cross section flexible with ferrule Cross section flexible with ferrule Cross section flexible vine rate max. 3 mm Thickness busbar cable lug (combined conductors, max)  Cross section (busbar / busbar fork combined, max)  Screw terminals with strain-relief clamp bottom (load circuit)  Screw terminals with strain-relief clamp bottom (load circuit)  Screw terminals with strain-relief clamp bottom (load circuit)  Protection against direct contact DGUV V2, VDE 0660-514, finger and back-of-hand proof  Screw terminals with strain-relief clamp bottom (load circuit)  Protection against direct contact DGUV V2, VDE 0660-514, finger and back-of-hand proof  Connection C3 Maximum number of conductors per terminal Cross section of Candaximum number of conductors per terminal Cross section speriture of conductors per terminal Cross section flexible with ferrule Connecting capacity flexible 1-wire: 0.5 mm² 35 mm² Connecting capacity flexible 1-wire: 0.5 mm² 35 mm² Connecting capacity flexible 1-wire: 1.5 mm² 35 mm²	Rated voltage (AC)	230 V, 400 V
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Rated insulation voltage Rated impulse withstand voltage Rated frequency So Hz (16.67 Hz 66 Hz)  Current heat loss per current path Short-circuit backup-fuse SCPD 125 A  Back-up fuse type Back-up fuse (textual) Safety fuse as per DIN EN 0636  Overvoltage class III  Screw terminals with strain-relief clamp top (load circuit)  Protection against direct contact DGUV V2, VDE 0660-514, finger and back-of-hand proof Connecting capacity flexible Cross section stranded 1-wire: 0.5 mm² 16 mm² Cross section stranded 1-wire: 1.5 mm² 25 mm² Tightening torque Thickness busbar Thickness busbar Thickness busbar cable lug (combined, max) Cross section (busbar / busbar fork combined, max) Cross section (Dusbar / busbar fork combined, max) Cross section Section Section Section Solid  1-wire: 0.5 mm² 16 mm² Cross section Stranded 1-wire: 1.5 mm² 25 mm² Thickness busbar Thickness busbar Thickness busbar Thickness fundamental swith strain-relief clamp bottom (load circuit)  Protection against direct contact DGUV V2, VDE 0660-514, finger and back-of-hand proof Connecting capacity flexible 2 mm  Cross section (Busbar / busbar fork combined, max)  Screw terminals with strain-relief clamp bottom (load circuit)  Protection against direct contact DGUV V2, VDE 0660-514, finger and back-of-hand proof Connecting capacity flexible 1-wire: 0.5 mm² 35 mm² Connecting capacity flexible 1-wire: 0.5 mm² 16 mm²	Rated current (AC)	32 A
Rated impulse withstand voltage Rated frequency Sp Hz (16.67 Hz 66 Hz) Current heat loss per current path Short-circuit backup-fuse SCPD Back-up fuse type Sg Ly G Back-up fuse type Back-up fuse type Back-up fuse type Back-up fuse type Back-up fuse textual) Safety fuse as per DIN EN 0636 Covervoltage class III  Protection against direct contact DGUV V2, VDE 0660-514, finger and back-of-hand proof Connection C1 Maximum number of conductors per terminal Cross section solid Consection flexible with ferrule Cross section stranded 1-wire: 0.5 mm² 25 mm² Cross section stranded 1-wire: 1.5 mm² 25 mm² Tightening torque Thickness busbar Thickness busbar cable lug (combined conductors, max) Cross section (busbar / busbar fork) conductors per terminals with strain-relief clamp bottom (load circuit) Protection against direct contact DGUV V2, VDE 0660-514, finger and back-of-hand proof Consection flexible with ferrule 0.5 mm² 25 mm² Tightening torque Thickness busbar Thickness busbar Thickness busbar cable lug (combined conductors, max) Cross section (busbar / busbar fork combined, max) Screw terminals with strain-relief clamp bottom (load circuit) Protection against direct contact DGUV V2, VDE 0660-514, finger and back-of-hand proof Connection C2 Maximum number of conductors per terminal Cross section solid 1-wire: 0.5 mm² 35 mm² Connecting capacity flexible 1-wire: 1 mm² 25 mm² Connecting capacity flexible Cross section flexible with ferrule	Rated short-circuit current	10 kA
Rated frequency Current heat loss per current path Short-circuit backup-fuse SCPD 125 A Back-up fuse type Back-up fuse (textual) Overvoltage class III  Protection against direct contact Connecting capacity flexible Cross section flexible with ferrule Cross section flexible with far out of Combined, max)  Thickness busbar cable lug (combined, max)  Screw terminals with strain-relief clamp bottom (load circuit)  Protection against direct contact  DGUV V2, VDE o660-514, finger and back-of-hand proof  2 (conductors of same type and cross-section)  1 -wire: 0.5 mm² 16 mm²  1 -wire: 1.5 mm² 25 mm²  1 -wire: 1.5 mm² 25 mm²  1 -wire: 1.5 mm²  2 max. 2,5 Nm  Thickness busbar Thickness busbar cable lug (combined conductors, max)  Cross section (busbar / busbar fork combined, max)  Screw terminals with strain-relief clamp bottom (load circuit)  Protection against direct contact  DGUV V2, VDE o660-514, finger and back-of-hand proof  2 (conductors of same type and cross-section)  Screw terminals with strain-relief clamp bottom (load circuit)  Protection against direct contact  DGUV V2, VDE o660-514, finger and back-of-hand proof  Connection C2 Maximum  number of conductors per terminal  Cross section solid  1 -wire: 0.5 mm² 35 mm²  Cross section solid  1 -wire: 0.5 mm² 35 mm²  Cross section solid  1 -wire: 0.5 mm² 35 mm²  Cross section flexible with ferrule	Rated insulation voltage	2 kV
Current heat loss per current path  Short-circuit backup-fuse SCPD  Back-up fuse type  Back-up fuse (textual)  Safety fuse as per DIN EN 0636  Overvoltage class  III  Protection against direct contact  Connection C1 Maximum number of conductors per terminal  Cross section stranded  1-wire: 0.5 mm² 25 mm²  Thickness busbar  Thickness busbar cable lug (combined, max)  Cross section (busbar / busbar fork combined, max)  Cross section against direct contact  DGUV V2, VDE 0660-514, finger and back-of-hand proof  Connection C2 Maximum number of conductors per terminal  Cross section stranded  1-wire: 0.5 mm² 25 mm²  Thickness busbar  Thickness busbar  Thickness busbar  Thickness busbar  DGUV V2, VDE 0660-514, finger and back-of-hand proof  Consection (busbar / busbar fork combined, max)  Cross section (busbar / busbar fork combined, max)  Cross section Same type and cross-section)  Protection against direct contact  DGUV V2, VDE 0660-514, finger and back-of-hand proof  Connection C2 Maximum number of conductors per terminal  Cross section solid  1-wire: 0.5 mm² 35 mm²  Cross section solid  1-wire: 0.5 mm² 35 mm²  Cross section flexible with ferrule  O.5 mm² 25 mm²	Rated impulse withstand voltage	4 kV
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Back-up fuse type Back-up fuse (textual) Safety fuse as per DIN EN 0636  Overvoltage class III  Protection against direct contact DGUV V2, VDE 0660-514, finger and back-of-hand proof Connection C1 Maximum number of conductors per terminal Cross section solid Consection flexible with ferrule Cross section stranded 1-wire: 1.5 mm² 25 mm² Tightening torque Thickness busbar Thickness busbar cable lug (combined conductors, max) Cross section (busbar / busbar fork combined, max)  Screw terminals with strain-relief clamp bottom (load circuit) Protection against direct contact DGUV V2, VDE 0660-514, finger and back-of-hand proof Connection C2 Maximum number of conductors per terminal Connection C2 Maximum number of conductors per terminal Connection C2 Maximum number of conductors per terminal Consection solid 1-wire: 0.5 mm² 35 mm² Consection solid 1-wire: 0.5 mm² 35 mm² Connection C2 Maximum number of conductors per terminal Connection C3 Maximum number of conductors per terminal Connection C4 min call cross-section) Connection C5 mm² 35 mm² Connection C6 mm² 35 mm² Connection C7 mm² 35 mm² Connection C8 mm² 35 mm² Connection C9 mm² 35 mm²	·	2.9 W
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Overvoltage class    III		gL, gG
screw terminals with strain-relief clamp top (load circuit)  Protection against direct contact  DGUV V2, VDE 0660-514, finger and back-of-hand proof  2 (conductors of same type and cross-section) number of conductors per terminal  Cross section solid  1-wire: 0.5 mm² 25 mm²  Connecting capacity flexible  1-wire: 1 mm² 26 mm²  Cross section flexible with ferrule  0.5 mm² 16 mm²  Tightening torque  Thickness busbar  Thickness busbar  Thickness busbar cable lug (combined conductors, max)  Cross section (busbar / busbar fork combined, max)  screw terminals with strain-relief clamp bottom (load circuit)  Protection against direct contact  DGUV V2, VDE 0660-514, finger and back-of-hand proof  Connection C2 Maximum number of conductors per terminal  Cross section solid  1-wire: 0.5 mm² 35 mm²  Connecting capacity flexible  1-wire: 0.5 mm² 35 mm²  Connecting capacity flexible  1-wire: 1 mm² 25 mm²  Cross section flexible with ferrule	Back-up fuse (textual)	Safety fuse as per DIN EN 0636
Protection against direct contact  DGUV V2, VDE o660-514, finger and back-of-hand proof  Connection C1 Maximum number of conductors per terminal  Cross section solid  1-wire: 0.5 mm² 25 mm²  Connecting capacity flexible  1-wire: 1 mm² 16 mm²  Cross section flexible with ferrule  0.5 mm² 16 mm²  Tightening torque  Thickness busbar Thickness busbar cable lug (combined conductors, max)  Cross section (busbar / busbar fork combined, max)  Screw terminals with strain-relief clamp bottom (load circuit)  Protection against direct contact  DGUV V2, VDE o660-514, finger and back-of-hand proof  Connection C2 Maximum number of conductors per terminal  Cross section solid  1-wire: 0.5 mm² 35 mm²  Connecting capacity flexible  1-wire: 0.5 mm² 35 mm²  Connecting capacity flexible  1-wire: 0.5 mm² 25 mm²  Cross section flexible with ferrule  0.5 mm² 16 mm²	Overvoltage class	III
Connection C1 Maximum number of conductors per terminal  Cross section solid  1-wire: 0.5 mm² 25 mm²  Connecting capacity flexible  1-wire: 1 mm² 16 mm²  Cross section stranded  1-wire: 1.5 mm² 25 mm²  Tightening torque  Thickness busbar  Thickness busbar able lug (combined conductors, max)  Cross section (busbar / busbar fork combined, max)  Screw terminals with strain-relief clamp bottom (load circuit)  Protection against direct contact  DGUV V2, VDE 0660-514, finger and back-of-hand proof  Connection C2 Maximum number of conductors per terminal  Cross section solid  1-wire: 0.5 mm² 35 mm²  Connecting capacity flexible  1-wire: 0.5 mm² 35 mm²  Cross section flexible with ferrule  0.5 mm² 16 mm²		
number of conductors per terminal  Cross section solid  1-wire: 0.5 mm² 25 mm²  Connecting capacity flexible  1-wire: 1 mm² 16 mm²  Cross section flexible with ferrule  0.5 mm² 16 mm²  Cross section stranded  1-wire: 1.5 mm² 25 mm²  Tightening torque  max. 2.5 Nm  Thickness busbar  Thickness busbar cable lug (combined conductors, max)  Cross section (busbar / busbar fork combined, max)  Screw terminals with strain-relief clamp bottom (load circuit)  Protection against direct contact  DGUV V2, VDE 0660-514, finger and back-of-hand proof  Connection C2 Maximum  number of conductors per terminal  Cross section solid  1-wire: 0.5 mm² 35 mm²  Connecting capacity flexible  1-wire: 1 mm² 25 mm²  Cross section flexible with ferrule		<del>_</del>
Connecting capacity flexible  1-wire: 1 mm² 16 mm²  Cross section flexible with ferrule  0.5 mm² 16 mm²  1-wire: 1.5 mm² 25 mm²  Tightening torque  max. 2.5 Nm  Thickness busbar  Thickness busbar cable lug (combined conductors, max)  Cross section (busbar / busbar fork combined, max)  screw terminals with strain-relief clamp bottom (load circuit)  Protection against direct contact  DGUV V2, VDE 0660-514, finger and back-of-hand proof  Connection C2 Maximum number of conductors per terminal  Cross section solid  1-wire: 0.5 mm² 35 mm²  Connecting capacity flexible  1-wire: 1 mm² 25 mm²  Cross section flexible with ferrule	number of conductors per	2 (conductors of same type and cross-section)
Cross section flexible with ferrule  Cross section stranded  1-wire: 1.5 mm² 25 mm²  Tightening torque  max. 2.5 Nm  Thickness busbar  Thickness busbar cable lug (combined conductors, max)  Cross section (busbar / busbar fork combined, max)  Screw terminals with strain-relief clamp bottom (load circuit)  Protection against direct contact  DGUV V2, VDE 0660-514, finger and back-of-hand proof  Connection C2 Maximum number of conductors per terminal  Cross section solid  1-wire: 0.5 mm² 35 mm²  Connecting capacity flexible  1-wire: 1 mm² 25 mm²  Cross section flexible with ferrule	Cross section solid	1-wire: 0.5 mm <sup>2</sup> 25 mm <sup>2</sup>
Cross section stranded  1-wire: 1.5 mm² 25 mm²  Tightening torque  max. 2.5 Nm  Thickness busbar  Thickness busbar cable lug (combined conductors, max)  Cross section (busbar / busbar fork combined, max)  Screw terminals with strain-relief clamp bottom (load circuit)  Protection against direct contact  DGUV V2, VDE 0660-514, finger and back-of-hand proof  Connection C2 Maximum number of conductors per terminal  Cross section solid  1-wire: 0.5 mm² 35 mm²  Connecting capacity flexible  1-wire: 1 mm² 25 mm²  Cross section flexible with ferrule	Connecting capacity flexible	1-wire: 1 mm <sup>2</sup> 16 mm <sup>2</sup>
Tightening torque  max. 2.5 Nm  Thickness busbar  Thickness busbar cable lug (combined conductors, max)  Cross section (busbar / busbar fork combined, max)  Screw terminals with strain-relief clamp bottom (load circuit)  Protection against direct contact  DGUV V2, VDE 0660-514, finger and back-of-hand proof  Connection C2 Maximum number of conductors per terminal  Cross section solid  1-wire: 0.5 mm² 35 mm²  Connecting capacity flexible  1-wire: 1 mm² 25 mm²  Cross section flexible with ferrule	Cross section flexible with ferrule	o.5 mm² 16 mm²
Thickness busbar cable lug (combined conductors, max)  Cross section (busbar / busbar fork combined, max)  Screw terminals with strain-relief clamp bottom (load circuit)  Protection against direct contact  DGUV V2, VDE 0660-514, finger and back-of-hand proof  Connection C2 Maximum a (conductors of same type and cross-section)  number of conductors per terminal  Cross section solid  1-wire: 0.5 mm² 35 mm²  Connecting capacity flexible  1-wire: 1 mm² 25 mm²  Cross section flexible with ferrule	Cross section stranded	1-wire: 1.5 mm <sup>2</sup> 25 mm <sup>2</sup>
Thickness busbar cable lug (combined conductors, max)  Cross section (busbar / busbar fork combined, max)  Screw terminals with strain-relief clamp bottom (load circuit)  Protection against direct contact  DGUV V2, VDE 0660-514, finger and back-of-hand proof  Connection C2 Maximum number of conductors per terminal  Cross section solid  1-wire: 0.5 mm² 35 mm²  Connecting capacity flexible  1-wire: 1 mm² 25 mm²  Cross section flexible with ferrule		max. 2.5 Nm
(combined conductors, max)  Cross section (busbar / busbar fork combined, max)  screw terminals with strain-relief clamp bottom (load circuit)  Protection against direct contact  DGUV V2, VDE 0660-514, finger and back-of-hand proof  Connection C2 Maximum  number of conductors per terminal  Cross section solid  1-wire: 0.5 mm² 35 mm²  Connecting capacity flexible  1-wire: 1 mm² 25 mm²  Cross section flexible with ferrule	1111011110000000	max. 3 mm
fork combined, max)  screw terminals with strain-relief clamp bottom (load circuit)  Protection against direct contact  DGUV V2, VDE 0660-514, finger and back-of-hand proof  2 (conductors of same type and cross-section)  number of conductors per terminal  Cross section solid  1-wire: 0.5 mm² 35 mm²  Connecting capacity flexible  1-wire: 1 mm² 25 mm²  Cross section flexible with ferrule		2 mm
Protection against direct contact  DGUV V2, VDE 0660-514, finger and back-of-hand proof  2 (conductors of same type and cross-section)  number of conductors per terminal  Cross section solid  1-wire: 0.5 mm² 35 mm²  Connecting capacity flexible  1-wire: 1 mm² 25 mm²  Cross section flexible with ferrule		25 mm²
Connection C2 Maximum number of conductors per terminal  Cross section solid 1-wire: 0.5 mm² 35 mm²  Connecting capacity flexible 1-wire: 1 mm² 25 mm²  Cross section flexible with ferrule 0.5 mm² 16 mm²		<u>-</u>
number of conductors per terminal  Cross section solid  1-wire: 0.5 mm² 35 mm²  Connecting capacity flexible  1-wire: 1 mm² 25 mm²  Cross section flexible with ferrule  0.5 mm² 16 mm²		<del>_</del>
Connecting capacity flexible 1-wire: 1 mm² 25 mm²  Cross section flexible with ferrule 0.5 mm² 16 mm²	number of conductors per terminal	
Cross section flexible with ferrule 0.5 mm <sup>2</sup> 16 mm <sup>2</sup>	Cross section solid	1-wire: 0.5 mm <sup>2</sup> 35 mm <sup>2</sup>
		<del>_</del>
Cross section stranded 1-wire: 1.5 mm <sup>2</sup> 35 mm <sup>2</sup>		
	Cross section stranded	1-wire: 1.5 mm <sup>2</sup> 35 mm <sup>2</sup>

Technical Data	DLS 6i K <sub>32-1</sub>
Tightening torque	max. 2.5 Nm
Thickness busbar cable lug (combined conductors, max)	2 mm
Cross section (busbar / busbar fork combined, max)	35 mm²
Thickness busbar	max. 3 mm
	General data
Operating position	optional
Mechanical endurance	min. 20000 switching cycles
Storage temperature	-40 °C 70 °C
Ambient temperature	-25 °C 55 °C
Climate resistance	damp/heat: constant as per DIN EN 60068-2-78, cyclical as per DIN EN 60068-2-30
Shock resistance	25 g / 11 ms Duration
Vibration resistance	> 15 g acc. to DIN EN 60068-2-59 during a load with I1
Housing type	distribution board housing
Installation type	Mounting rail (35 mm)
Housing material	thermoplastic
Protection class	IP20
sealable	true
Width	17.7 mm
Height	82.5 mm
Depth	74 mm
Installation depth	68 mm
Module widths	1
Weight	0.12 kg
Design requirements/Standards	IEC 60947-2, DIN EN 60947-2, VDE 0660-101
Power limitation category	3
Degree of pollution	2

## Dimensions

Dimensional drawing Group view

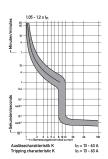


## Wiring example



Wiring diagram

## Diagrams



Characteristic Char. K