

SK TU4-24V-140-B

Part number: 275 281 109

Mains unit

NOTICE

Validity of this document

This document is only valid in combination with the operating instructions for the relevant electronic drive technology and under strict compliance with the safety and warning instructions which they contain. Safe commissioning of this module and the electronic drive technology depends on the availability of this information.

Scope of delivery

1 x	Module	SK TU4-24V-140-B
1 x	Mains voltage cable set	brown / black* * incl. fuse (5A slow-acting)
1 x	24 VDC cable set	brown / blue
1 x	PE cable	green/yellow
1 x	Burden resistor	500 Ω
4 x	Hexagonal socket screw	M4 x 40
<i>Accessories required</i>		
1 x	Connection unit	SK TI4-TU-NET
		Part No. 275 280 100)



Field of use

Mains unit for mounting on, or in the immediate vicinity of a decentralised electronic drive technology frequency inverter. The voltage / frequency converter which is integrated into the module enables conversion of analogue signals from a potentiometer into a digital pulsed signal. This pulsed signal can be interpreted as an analogue signal by certain digital inputs of the drive electronics.

Technical Information / Datasheet	SK TU4-24V-140-B			
Power supply	TI 275281109	V 1.0	5115	EN

Technical data

Temperature range	-25°C ... 50 °C
Temperature class	Class 3K3

Vibration resistance	3M7
Protection class	IP55
Dimensions [mm]*	HxWxD 95 x 136 x 91

* module mounted on the connection unit

Designation	Terminal	Data
Module power supply	L1 + L2	380 V AC ... 500 V AC
Output voltage (load capacity)	x ¹⁾ + 40	24 VDC ± 10 % (≤ 420 mA)
Analogue input - reference voltage	11	10 VDC ±0.2 V, ≤ 5 mA (output)
Analogue input	12 + 14	Resolution: 8 Bit, precision: 0.2 V ²⁾
Frequency output	B1	PLC-compatible as per EN 61131-2 Low: 0 V, High: 24 V Clock frequency: approx. 1 – 32 kHz

1) Depending on the frequency inverter version: SK TU4: x = Terminal 43, SK CU4: x = Terminal 44

2) For connecting a potentiometer (5 – 10 kΩ). A 500 Ω burden resistor (enclosed) must be used for the evaluation of 0/4 – 20 mA signals

Assembly

The module must be plugged on to the relevant connection unit (SK TI4-TU- ...) and connected using the four enclosed M4 x 40 mm screws. Installation details can be found in the *Technical Information / Data Sheet* for the relevant connection units.

Connections

Connection of the signal and control cables is made via the connection unit SK TI4-TU-NET(-C).

Further documentation (www.nord.com)

Document	Name
BU 0135	Motor starter manual SK 135E, SK 175E
BU 0180	Frequency inverter manual SK 180E, SK 190E

Document	Name
BU 0200	Frequency inverter manual SK 2xxE
TI 275280100	Connection unit SK TIE4-TU-NET