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All about e-mobility

Transient Active Short Circuit Modul TASC

for testing the active short circuit on e-machines



Main features

- Extension module to the UPI800, UPI1000 and UPI1250 for testing the active short circuit on e-machines
- Triggering of the active short circuit either manually or angle-dependent
- Transient short-circuit current up to 2500 Apk/100 ms
- Air-cooled
- Upgrade to existing UPIs is possible

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Technical data:

	TASC800	TASC1250
Operating voltage:	800 VDC	1250 VDC
Transient overcurrent:	2000 Apk (1200 Arms)	2500 Apk (1760 Arms)
'Static' short circuit current:	707 Apk (500 Arms)	1400 Apk (1000 Arms)
Voltage drop:	10 Vpk @2000 Apk 6 Vpk @ 500 Arms	8 Vpk @2500 Apk 6 Vpk @ 1000 Arms
Load cycle:	ED = 10% with pulse load assumed above Example: a) TASC pulse: 2000 Apk/100 ms 500 Arms/5 s b) Cooling break: 50 s c) Next TASC pulse	ED = 10% with pulse load assumed above Example: a) TASC pulse: 2500 Apk/100 ms 1000 Arms/5 s b) Cooling break: 50 s c) Next TASC pulse
Delay 6-S0 to short-circuit trigger:	< 1 µs	< 1 µs
Connections:	U, V, W via cable glands	U, V, W via cable glands
Cooling:	Forced air cooling, thermostat in electrical enclosure set to 30 °C	Forced air cooling, thermostat in electrical enclosure set to 30 °C
Ambient conditions:	30 °C, non-condensing humidity	30 °C, non-condensing humidity
Protection class:	1	1
Degree of protection:	IP54	IP54

Dimensions and weight:

Dimensions:	1000 mm x 600 mm x 400 mm	1000 mm x 800 mm x 400 mm
Weight:	110 kg	135 kg

Block diagram:

