



■ Main Features

- Wide input voltage range: 12...85Vdc
- Extremely low loss - up to 99% efficiency
- Ultra compact
- Pluggable connectors
- Up to 70°C operating temperature with no derating

TECHNICAL DATA

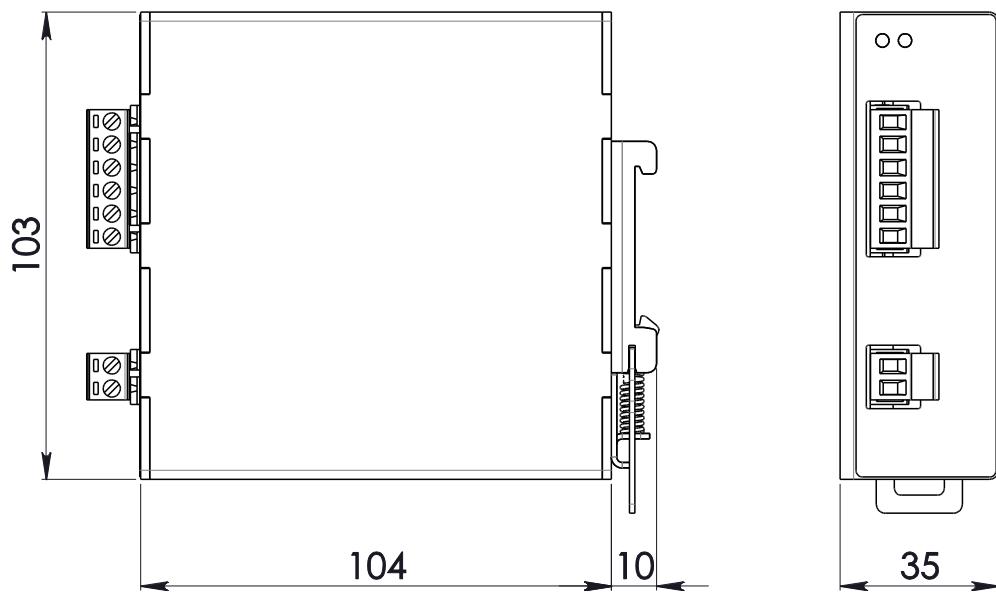
Model type	OR20
OUTPUT DATA	
Rated voltage	12...85Vdc
Continuous current	20A
Peak output current	> 100A
Conduction resistance	< 9mΩ
INPUT DATA	
Input DC rated voltage	12...85Vdc
Input DC rated current	20A
Standby power	< 0.2W
Input protections	<ul style="list-style-type: none"> ▪ Overvoltage ≥ 100Vdc ▪ Reverse polarity connection
USER INTERFACE	
Status Signals	<ul style="list-style-type: none"> ▪ IN1 OK - green LED ▪ IN2 OK - green LED ▪ Redundancy available when IN1 OK & IN2 OK simultaneously ▪ OR OK - dry contact (NO, 24Vdc / 1A)
GENERAL DATA	
Dissipated power	< 4W
Operating temperature ¹	- 40°C...+ 70°C
Derating	No derating
Storage temperature	- 40°C...+ 80°C
Humidity	5...95% r.H. non condensing
Cooling	Natural convection
Life time expectation	354'655h (40.5 years) at 25°C ambient full load
MTBF	<ul style="list-style-type: none"> ▪ MIL-HDBK-217F > 700'000h at 25°C ambient full load
Overvoltage category	<ul style="list-style-type: none"> ▪ EN50178 I
Pollution degree	<ul style="list-style-type: none"> ▪ IEC60664-1 2
Insulation enclosure to live parts	0.75kVdc
Safety Standards	<ul style="list-style-type: none"> ▪ UL508 (reference) ▪ IEC/EN61010-1 ▪ IEC/EN61010-2-201 ▪ IEC/EN60950
EMC Emission	<ul style="list-style-type: none"> ▪ EN55011 (CISPR11) Class A ▪ EN55022 (CISPR22) Class A
EMC Immunity	<ul style="list-style-type: none"> ▪ EN61000-4-2 Level 3 ▪ EN61000-4-3 Level 3 ▪ EN61000-4-4 Level 3 ▪ EN61000-4-5 Level 1 ▪ EN61000-4-11 Level 2
Protection degree	IP20
Vibration sinuosoidal	(5-17.8Hz: ±1.6mm; 17.8-500Hz: 2g 2hours / axis (X,Y,Z))
Shock	(30g 6ms, 20g 11ms; 3 bumps / direction, 18 bumps total)
Connection terminals Input/Output	2.5mm ² , screw type pluggable (24...12AWG)
Connection dry contact signal	2.5mm ² , screw type pluggable (24...12AWG)
Case material	Aluminum
Weight	0.25kg
Size (W x H x D)	35.0 x 103.0 x 104.0mm

1) Start-up type tested: - 40°C, possible at nominal voltage with load deration.

Notes:

- Technical parameters are typical, measured in laboratory environment at 25°C and 24Vdc, at nominal values, after minimum 5 minutes of operation.
- Power rating, losses, efficiency, ripple, thermal behaviour and start-up may change outside of the nominal rated input range. Contact factory for details.
- Data may change without prior notice in order to improve the product.

DIMENSIONS



CONNECTION



Input Connection:

- IN1+ = Positive DC (Power Supply)
- IN1- = Negative DC (Power Supply)
- IN2+ = Positive DC (Power Supply)
- IN2- = Negative DC (Power Supply)

Output Connection:

- OUT+ = Positive DC (Load)
- OUT- = Negative DC (Load)

Signalling:

- OR OK: dry contact
- NO
- COM