RST® CLASSIC TECHNICAL DATA

	RST20i2/i3	RST25i3	RST20i4/i5	RST25i5	RST20i6/i7		
Rated voltage	250/400 V	250 V	250/400 V	250/400 V	250/400 V		
Rated current	20 A	25 A 32 A (at 6.0 mm	20 A	25 A 32 A (at 6.0 mm²)	20 A (3x20 A; 4x5 A) no pole specification		
Number of poles	2- or 3-pole	3-pole	4- or 5-pole	5-pole	6- or 7-pole		
Connectable cable diameter*	6.0 - 10.0 mm; 10.0 - 14.0 mm; 13.0 - 18.0 mm						
Temperature range:	Connector - 40 °C to 100 °C Cable H05VV max 70 °C, H07RN-F enhanced 90 °C						
Material	Contact parts: Brass, surface-treated						
	housing parts: Polyamide, halogen-free, V2						
	Sealing material: NBR						
Pollution degree	3 (when connected)						
Protection rating	IP66/68 (3m; 2h)/69, barrier seal for RST20i6/7 optional Cable assembly as a shrink hose variant IP66/68 (3m; 2h) The installation instructions must be followed (refer also to the White Paper "Electrical installation for outdoor areas" Order No. 0693.1)						
IK code	IK 07 (2 joules)						
Glow-wire test	RST20i2-i5/RST25i3/i5: at 850 °C, 30 s RST20i6/i7: at 960 °C, 30 s for connectors, distributors, cable assemblies and device connectors						
Mating cycles	$100\mathrm{x}$ without load and $50\mathrm{x}$ under nominal load (cos w = 0.6) to IEC 61535 Up to 5,000 mating cycles for RST20i2/3 / RST25i3 and 3,000 mating cycles for RST20i4/5 / RST25i5 are possible without load. After approx. $600\mathrm{mating}$ cycles, the seal should however be tested and re-greased with a suitable lubricant (e.g. Berulub FR 43 UV) if required.						
Certificates / approvals	VDE; TÜV Rheinland; LR; GL / DNV; RINA; BV; ATEX; IECEx; cULus; CSA***; UL**(Observe conditions of acceptability) ** No cable assemblies in shrink hose design and connectors in spring force design *** No cable assemblies in shrink hose design						
Directives	VDE 0110IÈC 6099	506); DIN EN 61984 (\ 99: UL 2238; CSA: C2: System2 PfG 1915	VDE 0627); 2.2 No.182.2-M1987;				

^{*}Other diameters on request

RST® CLASSIC DIMENSIONS

RST20i2 - i7 **CONNECTORS** female male ø 34,7 17,9 ca. 82 ca. 79 **DEVICE CONNECTOR** female male M 25 x 1,5 SW 32 Ø 35 46,5 **DISTRIBUTORS** 1E / 3A 92'9 Ш Ш

NOTE: Example illustration based on RSTi3 version.

The drawing for your product can be found in the download area of the relevant Art. No. at **eshop.wieland-electric.com**

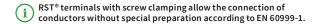
RST® CLASSIC CABLE PREPARATION

Connectable cable cross-sections

RST20i2/i3/25i3	Solid	Fine-wired, no cable end sleeve	Fine-wired, with cable end sleeve	Multi-stranded	ultrason. welded
Screw connection	0.75 - 6 mm ²	0.75 - 6 mm ²	0.75 - 4 mm ²	0.75 - 6 mm ² / AWG 20 - 14	-
Crimp connection 1)	-	0.75 - 4.0 mm ²	-	AWG 10 - 16	-
Spring force	0.5 - 2.5 mm ² / AWG 20 - 14	-	0.5 - 1.5 mm ² / AWG 20 - 16	0.75 - 1.5 mm ² / AWG 20 - 16	0.75 - 2.5 mm ²
RST20i4/i5/25i5	Solid	Fine-wired, no cable end sleeve	Fine-wired, with cable end sleeve	Multi-stranded	
Screw connection	0.75 - 4 mm ² / AWG 14 - 18	0.75 - 4 mm ²	0.75 - 2.5 mm ²	0.75 - 4 mm ² / AWG 14 - 18	
Crimp connection 1)	-	0.75 - 4 mm ²	-	AWG 12 - 18	
RST20i6/i7	Solid	Fine-wired, no cable end sleeve ²⁾	Fine-wired, with cable end sleeve	Multi-stranded	
Screw connection	Connectors 0.2 - 1.5 mm ² Device connector 0.2 - 2.5 mm ²	0.2 - 2.5 mm ²	0.2 - 1.5 mm ²	0.2 - 2.5 mm ² / AWG 14 - 20	
Crimp connection 1)	-	0.2 - 2.5 mm ²	-	-	

For spring forces, please use the following cable end sleeves. These can be found in RST® CLASSIC accessories.

Cable cross-section	Ferrule
0.5 mm ²	DIN 46228-E0.5-10
0.75 mm ² / AWG 20	DIN 46228-E0.75 -12
1 mm² / AWG 18	DIN 46228-E1.0 -12
$1.5\mathrm{mm^2}$ / AWG 16	DIN 46228-E1.5-12



1) Crimp contacts must always be ordered separately to the connector. The range of crimp contacts can be found in RST® CLASSIC accessories.

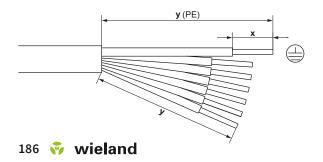
RST20i7/i6:

- 2) Restriction of the connection section range for fine-wired cables, when using connectors with the following strain reliefs. - Double connection: 0.2 - 0.75 mm²

 - straight, for cables Ø 6 10 mm and Ø 10 14 mm: 0.2 1.5 mm²

Sheath strip and wire strip lengths

RST20i2/i3/25i3		straight ∅6 - 10 mm, ∅ 10 - 14 mm		straight Ø13-18 mm		square Ø 6 - 10 mm, Ø 10 - 14 mm		splitter connector Ø 6 - 10 mm, Ø 10 - 14mm, Ø 13 - 18 mm		
							2-pole	3-p	oole	
Cable	y (PE)	у	y (PE)	У	y (PE)	у	у	y (PE)	У	
Screw connection	31.5 mm	26.5 mm	42 mm	37 mm	31.5 mm	26.5 mm	42 mm	45.5 mm	40.5 mm	
Spring connection	40 mm	35 mm	-	-	40 mm	35 mm	-	55 mm	50 mm	
Crimp connection	42 mm	37 mm	57 mm	52 mm	42 mm	37 mm	-	-	-	
RST20i4/i5/25i5		straight Ø 6 - 10 mm, Ø 10 - 14 mm		straight Ø 13 - 18 mm		square Ø 6 - 10 mm, Ø 10 - 14 mm		splitter connector Ø 6 - 10 mm, Ø 13 - 18 mm		
Cable	y (PE)	у	y (PE)	у	y (PE)	у	y (PE)	у	
Screw connection	31.5 mm	26.5 mm	42 mm	37 mm	31.5 mm	26.5 mm	45.5 m	m 4	0.5 mm	
Crimp connection	42 mm	37 mm	49 mm	44 mm	42 mm	37 mm	-		_	
RST20i6/i7		straight Ø 6 - 10 mm, Ø 10 - 14 mm		straight Ø 13 - 18 mm		square Ø 6 - 10 mm, Ø 10 - 14 mm		splitter connector Ø 6 - 10 mm, Ø 13 - 18 mm		
Cable	y (PE)	у	y (PE)	у	y (PE)	у	y (PE)	у	
Screw connection	30 mm	25 mm	42 mm	37 mm	30 mm	25 mm	45 mr	n .	40 mm	
Crimp connection	37 mm	32 mm	44 mm	39 mm	37 mm	32 mm	_		_	

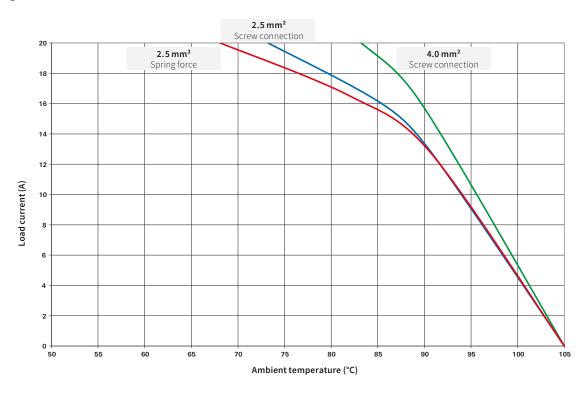




RST® CLASSIC DERATING CURVES

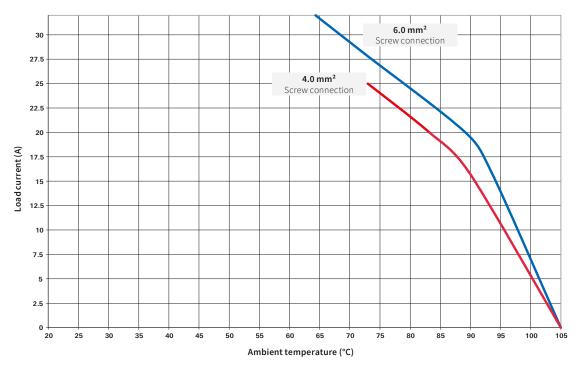
 $RST20i3 \hspace{0.1cm} \hbox{(Screw connection - spring force)} \\$

Derating curve to IEC 61984 Edition 2 dated 10/2008 Sec. 7.3.8



RST25i3 (screw connection)

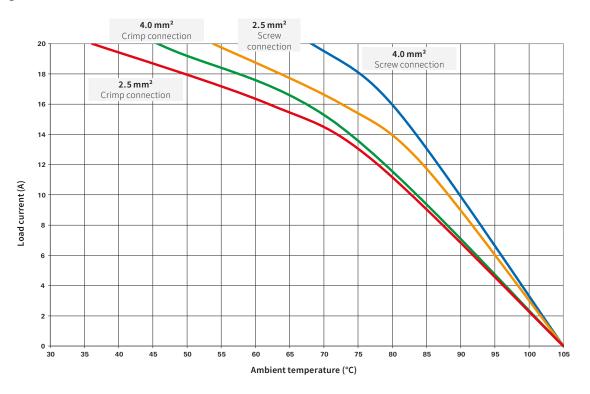
Derating curve to IEC 61984 Edition 2 dated 10/2008 Sec. 7.3.8



RST® CLASSIC DERATING CURVES

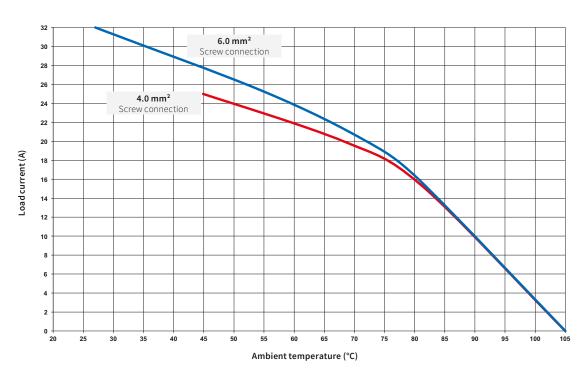
 $RST20i5 \ \ (\text{screw connection} - \text{crimp connection})$

Derating curve to IEC 61984 Edition 2 dated 10/2008 Sec. 7.3.8



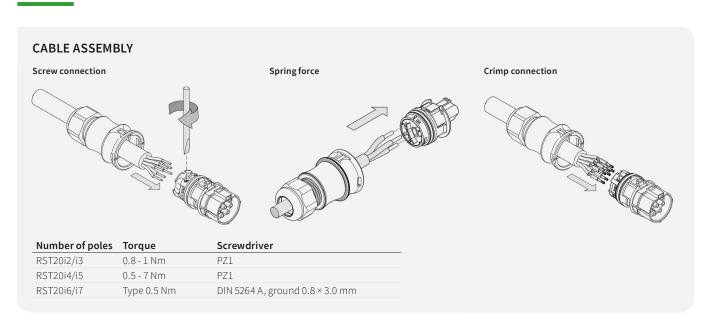
RST25i5 (screw connection)

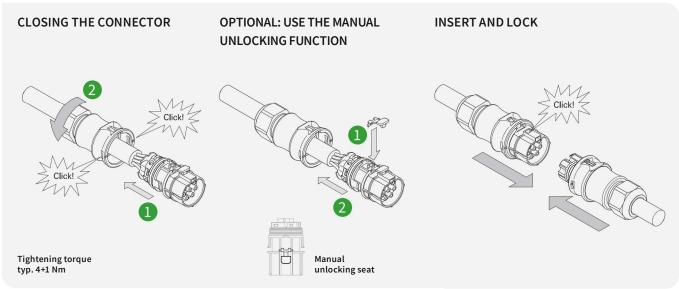
Derating curve to IEC 61984 Edition 2 dated 10/2008 Sec. 7.3.8

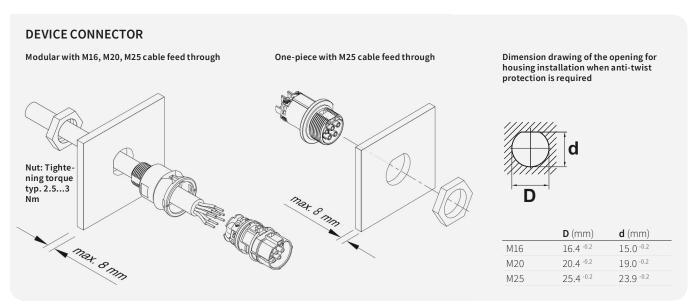


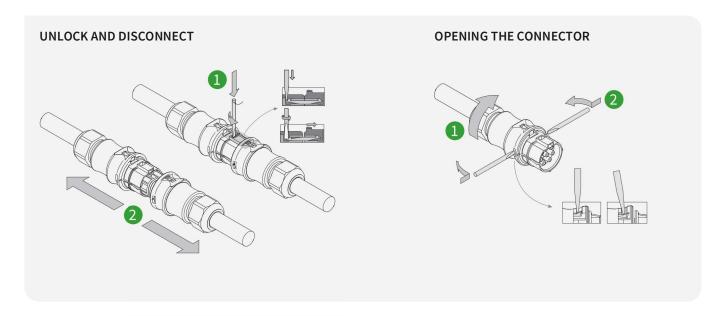


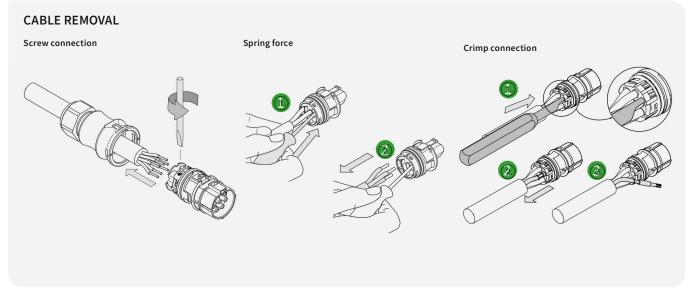
RST® CLASSIC ASSEMBLY INSTRUCTION











Proceed in the same way for 2 to 7-pole connectors.
Observe the pole configuration.



NOTE: Please note that electrical connections and installations must be carried out only by appropriately trained specialists. The Assembly instructions accompanying the product must be observed! The relevant Assembly instruction can be found online in the download area of the product concerned: **eshop.wieland-electric.com**

wieland 191 Technical changes reserved