

# Definition of the CONTRIK standard according to EN IEC 61439-1:2021 Annex C.

The table shows the standard values of CONTRIK power distribution systems. If deviations from CONTRIK standard are required by the customer, these must be defined in consultation with the manufacturer.

The following functions and features must be defined by the user in accordance with EN IEC 61439-1:2021:

Features	Default of the norm	CONTRIK Standard
<b>Electrical network</b>		
System by type of earth connection	TN	TN
Rated voltage/rated voltage	bis max. 1000V	415V AC
Transient overvoltages	Overvoltage category I-IV	II
Temporary overvoltage	see table 8,9,10	2000V AC
Rated frequency	DC/50/60HZ	50/60Hz
<b>Short-circuit resistance</b>		
Short-circuit resistance		6kA (RCBO 1 TE) 10kA
SCPD (Short circuit protection device) in the feed		Devices only intended for existing standard-compliant plug device.
Coordination between SCPD inside / outside the socket distributor	present/install/install	Devices only intended for existing standard-compliant plug device.
<b>Protection against electric shock</b>		
Type of protection against electric shock (It serves to protect against electric shock by being touched within the distributor during normal operation)	observe local requirements	Basic protection
Type of protection against electric shock fault protection	Automatic shutdown/protective isolation	Article dependent
<b>Installation environment</b>		
Site	Indoor/Outdoor	Depending on article see IP protection class
Protection class	IP xx	Article dependent IP20-IP65
Protection against mechanical impact	Specification of the IK code	Possible up to IK10+ depending on article
Resistance to UV radiation	required for outdoor installation	Indoor: not relevant Outdoor installation: moderate climate
Ambient temperature limits	Outdoor 25°C, indoor 50% at 40°C	Depending on article at least meets the standard requirement -25°C to +40°C for outdoor -5°C +40°C for indoor
Pollution level	1,2,3,4	For indoor 1 For outdoor 3
Altitude		≤2000 meter
EMC environment	A/B	B
Special operating conditions such as EX zone, vibrations		No special operating conditions
<b>Current carrying capacity</b>		
Intended operating current $I_b$ and characteristics of the load for each circuit		Article-dependent, $I_b$ limited by upstream protective devices / plug-in devices of the on-site installation.
Design load factor (RDF) $RDF = I_b/I_{nc}$	RDF for power circuits / RDF for common power distributors	Article dependent, See manual