



Specifications - DataPro, SonicPro, EnerPro and IsoPro

Type	DataPro 2x1-12V/12V	DataPro 2x1-24V/24V Tr	SonicPro 3x1-24V/24V Tr	EnerPro 1-24V Tr	DataPro TAE/NFN	EnerPro 220Tr (/5)	IsoPro 220/380Tr
Rated voltage U_N	12 V =	24 V =	24 V =	24 V =	150 V =	230 V ~	230 / 400 V~
Max. operating voltage U_{max}	15 V = 10 V~	± 28 V = 20 V~	± 27 V = 20V~	± 27 V = 20 V~	185 V =	275 V ~	280 V~
Max. operating current	2.0 A	0.5 A	0.5 A	6 A	-	16 A	-
Leakage current of U_{max} (DC) ground-conductor	<5 μ A	<5 μ A	<5 μ A	<5 μ A	<5 μ A	-	-
Cut-off frequency (< 3dB)	600 kHz	600 kHz	-	100 kHz	100 kHz	-	-
Ohmic resistance per conductor	20 m Ω	4.6 Ω	4.6 Ω	27 m Ω	1 Ω	10 m Ω	-
Direct-axis component of inductivity per conductor	11 μ H	28 μ H	40 μ H	20 μ H	1.8 μ H	-	-
Capacity ground-conductor	≤ 10 nF	≤ 1.3 nF	≤ 1.3 nF	7 nF	-	-	-
Capacity ground-conductor	≤ 10 nF	≤ 2 nF	≤ 1.3 nF	-	-	-	-
Operational temperature range	-25°C ...+85°C				-	-25°C ...+85°C	
Connection	screw connection 2.5 mm ² solid or 1.5 mm ² with sleeve				1 mm ²	2 x 2.5 mm ² (solid)	2 x 50 mm ²
Enclosure	Polycarbonate						Kerippel + Noryl
U_R at i_{sN} ground conductor (protected side)	≤ 21 V	≤ 36 V	≤ 36 V	≤ 60 V	≤ 450 V	<1.4 kV (1 kV)	<2.5 kV
Level of protection U_R at i_{sN} wire-wire (protected side)	≤ 21 V	≤ 36 V	≤ 36 V	-	≤ 300 V	<1.4 kV (1 kV)	<2.5 kV
Level of protection 3-PE (only for SonicPro)	-	-	≤ 800 V	-	-	-	-
Rated leakage current i_{sN} (10 x 8/20 μ s)	20 kA	20 kA	20 kA	20 kA	5 kA	20 kA (5 kA)	100 kA (8/80 μ s) test current
Cut-off short-time current (8/20 μ s)	30 kA	30 kA	30 kA	25 kA	10 kA	20 kA (10 kA)	100 kA (8/80 μ s) test current
Durability test current i_L (500 x 10/700 ms)	200 A	200 A	200 A	200 A	-	-	-
Cut-off leakage current 10/700 ms	1000 A	1000 A	1000 A	1000 A	-	-	-
Max. leakage 50 Hz / 5 x 0.5 s	50 A	50 A	50 A	50 A	-	-	-
Cut-off current 50 Hz/0.5 s	80 A	80 A	80 A	80 A	-	-	-

Specifications - Overview