

NERVO

Flexible Traction Drive

Modello	NERVO115M
Battery Rated Voltage - V DC	12 ÷ 48
Rated Output Power - kW	1,7
Rated Current - A	30
Peak Current (2 minutes) - A	40
Boost Current (10 seconds) - A	50
PWM Frequency - kHz	10 (by default)
Digital Input	4
Digital Output	2
Analog Input - 0V ÷ 10V	2
Analog Output - 0V ÷ 10V	-
Fieldbus	CANopen®
Feedback Hall, Sinusoidal	Hall, Sinusoidal Hall, Incremental Encoder, SinCos, Sensorless
Brake management	-
Motor types Brushless AC	Brushless AC, Brushless DC, Asynchronous
Connection type	M4 busbar (DC Link & Phases)
Operating Temperature - °C	0 ÷ 40
Protection degree	IP 20

Modello	NERVO130M
Battery Rated Voltage - V DC	24 ÷ 72
Rated Output Power - kW	5
Rated Current - A	70
Peak Current (2 minutes) - A	100
Boost Current (10 seconds) - A	120
PWM Frequency - kHz	10 (by default)
Digital Input	2
Digital Output	2
Analog Input - 0V ÷ 10V	2
Analog Output - 0V ÷ 10V	-
Fieldbus	CANopen®
Feedback Hall, Sinusoidal	Hall, Sinusoidal Hall, Resolver, Incremental Encoder, SinCos, Sensorless, SmartABS
Brake management	Internal
Motor types Brushless AC	Brushless AC, Brushless DC, Asynchronous
Connection type	M5 busbar (DC Link & Phases)
Operating Temperature - C°	0 ÷ 40
Protection degree	IP 20
Weight - g	400

Modello	NERVO145M
Battery Rated Voltage - V DC	12 ÷ 72
Rated Output Power - kW	7,9
Rated Current - A	100
Peak Current (2 minutes) - A	150
Boost Current (10 seconds) - A	200
PWM Frequency - kHz	10 (by default)
Digital Input	2
Digital Output	2
Analog Input - 0V ÷ 10V	2
Analog Output - 0V ÷ 10V	-
Fieldbus	CANopen®
Feedback Hall, Sinusoidal	Hall, Sinusoidal Hall, Resolver, Incremental Encoder, SinCos, Sensorless
Brake management	Internal
Motor types Brushless AC	Brushless AC, Brushless DC, Asynchronous
Connection type	M6 busbar (DC Link & Phases)
Operating Temperature - °C	0 ÷ 40
Protection degree	IP 20
Weight - g	750

Modello	NERVO118L
Battery Rated Voltage - V DC	24 ÷ 96
Rated Output Power - kW	20
Rated Current - A	250
Peak Current (2 minutes) - A	400
Boost Current (10 seconds) - A	500
PWM Frequency - kHz	10 (by default)
Digital Input	6
Digital Output	4
Analog Input - 0V ÷ 10V	3
Analog Output - 0V ÷ 10V	1
Fieldbus	CANopen®
Feedback Hall, Sinusoidal	Hall, Sinusoidal Hall, Resolver, Incremental Encoder, SinCos, Sensorless
Brake management	Internal
Motor types Brushless AC	Brushless AC, Brushless DC, Asynchronous
Connection type	M8 busbar (DC Link & Phases)
Operating Temperature - C°	0 ÷ 40
Protection degree	IP 65
Weight - g	1100

Standard

EN 61800-3:2004 + A1:2012	Adjustable speed electrical power drive systems - Part 3: EMC requirements and specific test methods
EN 61800-2 2015	Adjustable speed electrical power drive systems - Part 2: General requirements - Rating specifications for low voltage adjustable speed a.c. power drive systems
EN 61800-5-1 (2007)	Adjustable speed electrical power drive systems - Part 5-1: Safety requirements - electrical, thermal and energy requirements
2014/30/EU	European Directive on electromagnetic compatibility
2014/35/EU	European Low Voltage Directive
2011/65/EU	European RoHS Directive

Environmental Conditions

Working Temperature	-40°C .. +50°C
Altitude	Up to 1000 m above sea level without de-rating
Humidity	Operating: 5% ... 85% non-condensing Storage: 5% ... 95% non-condensing.
Vibration	Conformal to IEC60068-2-6
Protection Degree	IP20

Order code

FTD	X	X	X	X	X	X	X
Products							
S1 = Size 1 - 30A							
S2 = Size 2 - 70A							
S3 = Size 3 - 100A							
.....							
Supply Voltage (SV)							
24 = 24Vdc Battery Voltage							
48 = 48Vdc Battery Voltage							
72 = 72Vdc Battery Voltage							
Current / Power - (CPA1)							
030 = 30 A							
070 = 70 A							
100 = 100 A							
FieldBUS (F)							
C = CANOPEN							
Feedback (FB)							
00 = No feedback - Sensorless							
0E = Incremental Encoder							

RE = Resolver Feedback

Option Board / version (OB)

00 = No Option Board / standard

Custom Version (CV)

00 = No Special

Dimensions mm (typical)

