



**Part no.**  
**Article no.**

**DE1-129D6FN-N20N**  
**174332**

**Catalog No.**

**DE1-129D6FN-N20N**

## Delivery programme

Product range			PowerXL™ DE1 Speed Starters
Rated operational voltage	$U_e$		230 V AC, 1-phase
Output voltage with $V_e$	$U_2$		230 V AC, 3-phase
Mains voltage (50/60Hz)	$U_{LN}$	V	200 (-10%) - 240 (+10%)
Rated operational current Variable frequency drives			
Note			Rated operational current at an operating frequency of 16 kHz and an ambient air temperature of +50 °C Overload cycle for 60 s every 600 s 9.6
Note			
At 150% overload	$I_e$	A	
Assigned motor			for normal internally and externally ventilated 4 pole, three-phase asynchronous motors with 1500 rpm <sup>-1</sup> at 50 Hz or 1800 min <sup>-1</sup> at 60 Hz Overload cycle for 60 s every 600 s
Note			at 230 V, 50 Hz
Note			2.2
150 % Overload	P	kW	8.7
150 % Overload	$I_e$	A	at 220 - 240 V, 60 Hz
Note			3
150 % Overload	P	HP	9.6
150 % Overload	$I_e$	A	IP20/NEMA 0
Protection type			OP-Bus (RS485)/Modbus RTU
Interface			SmartWire-DT
Fieldbus connection			Radio interference suppression filter
Fitted with			FS2
Frame size			with SmartWire-DT module DX-NET-SWD3
Connection to SmartWire-DT			

## General

Protection type			IP20/NEMA 0
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## Main circuit

Supply			
Rated operational voltage	$U_e$		230 V AC, 1-phase
Mains voltage (50/60Hz)	$U_{LN}$	V	200 (-10%) - 240 (+10%)
Power section			
Output voltage with $V_e$	$U_2$		230 V AC, 3-phase
Rated operational current			
At 150% overload	$I_e$	A	9.6
Note			Rated operational current at an operating frequency of 16 kHz and an ambient air temperature of +50 °C
Fitted with			Radio interference suppression filter
Frame size			FS2
Motor feeder			
Assigned motor rating			
Note			for normal internally and externally ventilated 4 pole, three-phase asynchronous motors with 1500 rpm <sup>-1</sup> at 50 Hz or 1800 min <sup>-1</sup> at 60 Hz

## Control section

Interface			OP-Bus (RS485)/Modbus RTU
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## Technical data ETIM 5.0

Low-voltage industrial components (EG000017) / Frequency controller =< 1 kV (EC001857)			
Electric engineering, automation, process control engineering / Electrical drive / Static frequency converter / Static frequency converter =< 1 kv (ec1@ss8-27-02-31-01 [AKE177010])			
Mains voltage	V		200 - 240
Mains frequency			50/60 Hz
Number of phases input			1
Number of phases output			3
Max. output frequency	Hz		300

Rated output voltage	V	230
Measuring output current	A	9.6
Output power at rated output voltage	kW	0.5
Max. output at quadratic load at rated output voltage	kW	0.5
Max. output at linear load at rated output voltage	kW	0.5
With control unit		No
Application in industrial area permitted		Yes
Application in domestic- and commercial area permitted		Yes
Supporting protocol for TCP/IP		No
Supporting protocol for PROFIBUS		No
Supporting protocol for CAN		No
Supporting protocol for INTERBUS		No
Supporting protocol for ASI		No
Supporting protocol for KNX		No
Supporting protocol for MODBUS		Yes
Supporting protocol for Data-Highway		No
Supporting protocol for DeviceNet		No
Supporting protocol for SUCONET		No
Supporting protocol for LON		No
Supporting protocol for PROFINET IO		No
Supporting protocol for PROFINET CBA		No
Supporting protocol for SERCOS		No
Supporting protocol for Foundation Fieldbus		No
Supporting protocol for EtherNet/IP		No
Supporting protocol for AS-Interface		No
Safety at Work		
Supporting protocol for DeviceNet Safety		No
Supporting protocol for INTERBUS-Safety		No
Supporting protocol for PROFIsafe		No
Supporting protocol for SafetyBUS p		No
Supporting protocol for other bus systems		Yes
Number of HW-interfaces industrial Ethernet		0
Number of HW-interfaces PROFINET		0
Number of HW-interfaces RS-232		0
Number of HW-interfaces RS-422		0
Number of HW-interfaces RS-485		1
Number of HW-interfaces serial TTY		0
Number of HW-interfaces USB		0
Number of HW-interfaces parallel		0
Number of HW-interfaces other		0
With optical interface		0
With PC connection		Yes
Integrated braking resistance		No
4-quadrant operation possible		No
Type of converter		U converter
Degree of protection (IP)		IP20
Height	mm	230
Width	mm	90
Depth	mm	168
Relative symmetric net frequency tolerance	%	5
Relative symmetric net current tolerance	%	10

## Dimensions

