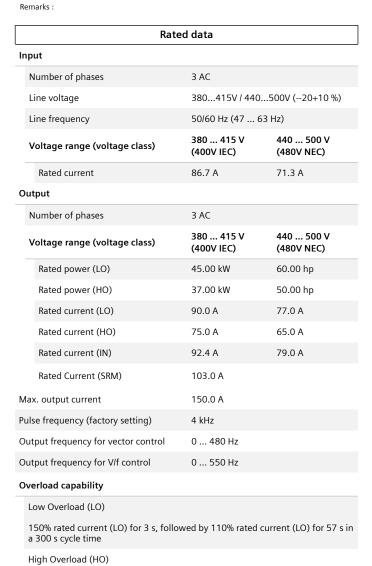


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Client order no. : Order no. : Offer no. :



Electronic power supply		
Voltage	24 V (20.4 28.8 V)	
Current demand, max.	2.00 A	
General tech. specifications		
Power factor λ (typical)	0.90	
Displacement factor $\cos \phi$ (typical)	0.98	
Efficiency η	0.98	
Sound pressure level (1m)	70 dB	
Filter class (integrated)	RFI suppression filter for Category C2	
Communication		

200% rated current (HO) for 3 s, followed by 150% rated current (HO) for 57 s

in a 300 s cycle time

Communication

Item no.:

Consignment no.	
Proiect :	

SINAMICS SDI Standard Operator Panel	
User interface	
Operator element version	Integrated SDI standard for monitoring and diagnostics
Interface design	RJ45 with 100 MBit/s Ethernet
Display design	1.4" graphic display
Screen resolution	128 x 160 Pixel
Inputs /	outputs
Standard digital inputs	
Number	6 (additionally 2 Al configurable as 2 DI)
Switching level: 0 → 1	11 V
Switching level: $1 \rightarrow 0$	5 V
Max. inrush current	4 mA
Number as rapid input	1 (DI5)
Fail-safe digital inputs	
Number	1 (additionally 4 DI configurable as 2 FDI)
Digital outputs	
Number as relay changeover contact	2
Output (resistive load)	DC 30 V, max. 0.5 A
Number as transistor	1
Output (resistive load)	DC 30 V, max. 0.4 A
Analog inputs	
Number	2 (Differential input)
Resolution	16 bit
Operating mode	
Voltage bipolar	-10 10 V
Voltage unipolar	0 10 V
Current	0 20 mA
Current monitored	4 20 mA
Switching threshold as digital input	
0 → 1	11 V
1 → 0	5 V

PROFINET, Modbus TCP, EtherNet/IP



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Analog outputs

Number	1 (Non-isolated output)
Operating mode	
Voltage unipolar	0 10 V
Current	0 20 mA
Current monitored	4 20 mA

Motor temperature interface

1 input for motor temperature, connectable PTC, KTY 84, PT1000, and bimetal temperature switch

PTC interface

CU: short-circuit monitoring < 20 ohms, overtemperature > 1650 ohms, OMSMT: type A, in accordance with IEC 60947-8, in accordance with EN 50495

KTY84 interface

Short-circuit monitoring < 500hm; wire breakage>21200hm; measurement current 2mA

PTC1000 interface

Short-circuit monitoring < 6030hm; wire breakage>21200hm; measurement current 2mA

Closed-loop control techniques		
V/f linear / square-law / parameterizable	Yes	
V/f with flux current control (FCC)	Yes	
V/f ECO linear / square-law	Yes	
Sensorless vector control	Yes	
Vector control, with sensor	Yes	
Encoderless torque control	Yes	
Torque control, with encoder	Yes	

Ambient conditions		
Cooling	Air cooling using an integrated fan	
Cooling air requirement	0.065 m ³ /s (2.295 ft ³ /s)	
Installation altitude (without derating)	1,000 m (3,281 ft)	
Max. ambient temperature with derating	50 °C	
Ambient temperature with high overload (without derating)	45 °C	
Ambient temperature with low overload (without derating)	40 °C	
Relative humidity during		
Max. operation	95 %	

Environ	mental conditions
Chemically active substances	
Operation	Class 3C2, according to IEC 60721-3-3: 2002
Transport	Class 2C2 according to IEC 60721-3- 2:1997 in marine- and weather-resistant transport packaging
Storage	Class 1C2 according to IEC 60721-3-1: 2002 in the transport packaging
iologically active substances	
Operation	Class 3B1 according to IEC 60721-3-3: 2002
Transport	Class 2B1 according to IEC 60721-3- 2:1997 in the transport packaging
Storage	Class 1B1 according to IEC 60721-3- 1:1997 in the transport packaging
Mechanically active substances	
Operation	Class 3S2 according to IEC 60721-3-3: Ed. 2.2 2002 (Conductive dusts are not permitted.)
Climatic environmental condition	ns
Operation	Class 3K3 according to IEC 60721-3-3 Ed. 2.2: 2002
Transport	Class 2K4 according to IEC 60721-3-2:1997 in the transport packaging; temperatur -40 $+70$ °C; relative atmospheric humidity 595% (without condensation)
Storage	Class 1K4 according to IEC 60721-3- 1:1997 in the transport packaging; temperatur -25 +55 °C; relative atmospheric humidity 595% (without condensation), storage altitude <=4000m; condensation, spray water, ice formation, salt mist not permissible

Mechanical environmental conditions

Operation	Class 3M1 according to IEC 60721-3-3 Ed. 2.2: 2002
Transport	Class 2M3 according to IEC 60721-3- 2:1997 in the transport packaging
Storage	Class 1M2 according to IEC 60721-3- 1:1997 in the transport packaging

Integrated Safety functions	
Safety function "Safe Torque Off"	Yes
Safe Stop 1 (SS1)	Yes
Safe Motor Temperature (SMT)	Yes
Extended software functions can be enabled with a license using an SD card.	



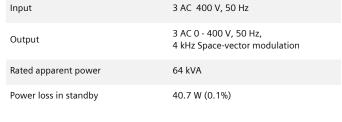
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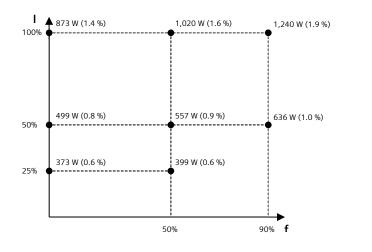
	Connections
Signal cable	
Туре	Push-in connection
Conductor cross-section	0.20 2.50 mm² (24 12 AWG)
Line side	
Туре	screw terminal
Conductor cross-section	
for single-core cables	35.00 95.00 mm² (2 3/0 AWG)
for multi-core cables	35.00 70.00 mm² (2 2/0 AWG)
Motor end	
Туре	screw terminal
Conductor cross-section	35.00 95.00 mm² (2 3/0 AWG)
DC link	
Туре	screw terminal
Conductor cross-section	35.00 95.00 mm² (2 3/0 AWG)
PE connection	
Туре	M8, screw terminal
Conductor cross-section	35.00 95.00 mm² (2 3/0 AWG)
Туре	stud terminal, M8
Conductor cross-section	35.00 95.00 mm² (2 3/0 AWG)
Max. motor cable length	
Shielded	200 m (656 ft)
Unshielded	300 m (984 ft)
with EMC category C2	
Shielded	150 m (492 ft)

Mechanical data		
Degree of protection	IP55 / UL type 12	
Frame size	FSE	
Net weight	54.6 kg (120.37 lb)	
Dimensions		
Width	327 mm (12.87 in)	
Height	778 mm (30.63 in)	
Depth	315 mm (12.4 in)	

Memory card	
1 slot for SD card	SINAMICS SD card, 8GByte

Certificates		
Certificate of suitability	CE, KC, cULus (UL 61800-5-1, CSA 22.2 No. 274) , EAC, UKCA	
CE marking		
EMC directive 2014/30/EU; Low Voltage 2011/65/EU; energy efficiency and eco		
Verification of suitability for fail-safety	SIL 3 according to IEC 61508 and IEC 61800-5-2, PL e according to ISO 13849-1, Category 4 according to ISO 13849-1	
Environmental compatibility	RoHS II, REACH, Green Passport	
Explosion protection	according to ATEX Directive 2014/34/EU	
shipbuilding approval	No	
Converter losses to IEC61800-9-2*		
Efficiency class	IE2	
In scope of Ecodesign Directive	No (in the valid range)	
Reason of exception	no exception	
IEC power loss data based on		
Lament	2.4C 400.V F0.H-	



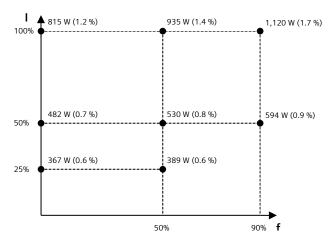




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NEC power loss data based on

Input	3 AC 480 V, 60 Hz
Output	3 AC 0 - 480 V, 60 Hz, 4 kHz Space-vector modulation
Rated apparent power	65.7 kVA
Power loss in standby	40.7 W (0.1%)



the absolute power losses for motor voltages according to NEC (AC 230 V, AC 460 V, AC 575 V) are approximately 2 % lower

The percentage values show the losses in relation to the rated apparent power of the converter.

The diagram shows the losses for the points (as per standard IEC61800-9-2) of the relative torque generating current (I) over the relative motor stator frequency (f). The values are valid for the basic version of the converter without options/components.

*calculated values



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Data sheet for Option Module OM-SMT (Safe Motor Temperature)

Electrical data		
Operating voltage (DC)	24.0 V (20.4 28.8 V)	
	from internal 24 V supply	
Current demand, max.	0.15 A	
Power loss	2.4 W	
Inputs / outputs		

PTC interface

Type A, according to IEC 60947-8; short-circuit detection <10 Ohm; no short-circuit >20 Ohm; overtemperature >2100 Ohm; no overtemperature <1100 Ohm; measuring current 1.5 mA; 1x PTC warning; 1x PTC shutdown (safety).

Mechanical data		
Degree of protection	IP20 / UL open type	
Net weight	81.6 g (2.88 oz)	
Dimensions		
Width	65.2 mm (2.57 in)	
Height	67.4 mm (2.65 in)	
Depth	53.6 mm (2.11 in)	

Ambient conditions		
Ambient temperature during		
Operation	-20 60 °C (-4 140 °F)	
Transport	-40 70 °C (-40 158 °F)	
Storage	-25 55 °C (-13 131 °F)	
Relative humidity		
without condensation	95 %	
Connections		
Signal cable		
Version	Push-in connection	
Conductor cross-section	0.5 2.5 mm²	
Certificates		
Certificate of suitability	CU, cULus (UL 61800-5-1, CSA 22.2 No. 274), EAC, RoHS II, REACH, safety according to EC 61800-5-2 and ISO 13849-1, Green Passport	
Explosion protection	according to ATEX Directive 2014/34/EU	