



Figure similar

## Data sheet for SIMOTICS T-1FW3

Article No. : **1FW3204-1UH72-5AA0-Z**  
T20

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

Item no. :  
Consignment no. :  
Project :

### Engineering data

	$P_N$ [kW]	$M_N$ [Nm]	$I_N$ [A]	$n_N$ [rpm]	$M_{max}$ [Nm]	$I_{max}$ [A]	$n_{max, inv}$ [rpm]	$M_0$ [Nm]	$I_0$ [A]
ALM 400V	31.5	1,000	74	300	1,850	163	670	1,050	77
ALM 480V	37.5	1,000	74	360	1,850	163	670	1,050	77
SLM 400V	28.5	1,000	74	270	1,850	163	670	1,050	77
SLM 480V	34.5	1,000	74	330	1,850	163	670	1,050	77

### Mechanical data

Motor type	Permanent-magnet synchronous motor
Shaft height	200
Cooling	Water cooling
Vibration severity grade	Grade A
Shaft and flange accuracy	Tolerance N (at normal running temperature)
Degree of protection	IP54
Design acc. to Code I	IM B14
Temperature monitoring	Pt1000 temperature sensor in the stator winding
Color	Anthracite grey RAL 7016 (Standard)
Type of the bearing	Normal (Standard)
Shaft end	Hollow shaft
Encoder system	Resolver 15bit (resolution 32768, internal, mutli-pole) (resolver R15DQ)
Encoder mounting system	Belt-mounted
Sound pressure level LpA(1m) motor rated load, tolerance + 3dB	73 dB <sup>1)</sup>

### Limiting data

Max. permissible speed (mech.)	1,000 rpm
Max. permissible speed (inverter)	670 rpm
Maximum torque	1,850 Nm
Maximum current	163 A

### Physical constants

Thermal time constant	14 min
Moment of inertia	7,000 kgcm <sup>2</sup>
Weight (approx.)	225 kg

### Connection

Type of electrical connection	Terminal box for power cable, connector for encoder signals and temperature sensor
Terminal box position	Transverse right
Power connection	Terminal box top

### Special design

T20 Shaft cover at NDE

<sup>1)</sup> at 4 kHz rated pulse frequency at the rated operating point