

## Data sheet for SIMOTICS T-1FW3



Figure similar

Article No. : 1FW3152-1DL72-7AA0

Client order no. :

Item no. :

Order no. :

Consignment no. :

Offer no. :

Project :

Remarks :

### 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]
<b>ALM 400V</b>	<b>10.5</b>	<b>200</b>	<b>22</b>	<b>500</b>	<b>400</b>	<b>53</b>	<b>960</b>	<b>210</b>	<b>22.5</b>
ALM 480V	12.6	200	22	600	400	53	960	210	22.5
SLM 400V	9.4	200	22	450	400	53	960	210	22.5
SLM 480V	11.5	200	22	550	400	53	960	210	22.5

### Mechanical data

Motor type	Permanent-magnet synchronous motor
Shaft height	150
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 extension	Hollow shaft
Encoder system	Incremental encoder 22 bit (resolution 4194304, internal 2048 S/R) + commutating position 11 bit (encoder IC22DQ)
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.)	1,700 rpm
Max. permissible speed (inverter)	960 rpm
Maximum torque	400 Nm
Maximum current	53 A

### Physical constants

Thermal time constant	4 min
Moment of inertia	0.16 kgm <sup>2</sup>
Weight (approx.)	108 kg

### Connection

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

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