

## Data sheet for SIMOTICS T-1FW3



Figure similar

Article No. : **1FW3154-1AH72-6AA0-Z  
K40+X05**

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>9.4</b>	<b>300</b>	<b>20.5</b>	<b>300</b>	<b>600</b>	<b>49</b>	<b>610</b>	<b>315</b>	<b>21.5</b>
ALM 480V	11.3	300	20.5	360	600	49	610	315	21.5
SLM 400V	8.5	300	20.5	270	600	49	610	315	21.5
SLM 480V	10.4	300	20.5	330	600	49	610	315	21.5

### 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	KTY84 temperature sensor in the stator winding
Color	Sky blue RAL 5015
Type of the bearing	Normal (Standard)
Shaft extension	Hollow shaft
Encoder system	Incremental encoder sin/cos 1 Vpp 2048 S/R with C and D tracks (encoder IC2048S/R)
Encoder mounting system	Belt-mounted
Sound pressure level $L_{pA}(1m)$ motor rated load, tolerance + 3dB	73 dB <sup>1)</sup>

### Limiting data

Max. permissible speed (mech.)	1,700 rpm
Max. permissible speed (inverter)	610 rpm
Maximum torque	600 Nm
Maximum current	49 A

### Physical constants

Thermal time constant	4 min
Moment of inertia	0.2 kgm <sup>2</sup>
Weight (approx.)	129 kg

### Connection

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

### Special design

K40	Regreasing system
X05	Paint finish: Sky blue RAL 5015

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